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May 15, 2018

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

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report, First Quarter 2018, for Defense Fuel Support Point Norwalk* (SCP NO. 0286A, SITE ID NO. 16638) located at 15306 Norwalk Boulevard, Norwalk, California. This report presents remedial system operational data and mass removal calculations for the first quarter of 2018.

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

Sincerely,

A handwritten signature in black ink that reads "William Y. Potter".

Digitally signed by
POTTER.WILLIAM.Y.1394566272
Date: 2018.05.14 18:17:27 -04'00'

William Y. Potter
Chief, Restoration Branch

Enclosure
As stated

cc:
Mike Wood, Senior Engineer, The Source Group, Inc.

REMEDIATION STATUS REPORT - FIRST QUARTER 2018
DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California

SGI Project No. 091-NDLA-018
DLA Energy Contract No. SPO600-14-D-5410, Task Order 18

Prepared For:



Defense Logistics Agency Installation Operations Energy (DF-FEE) Restoration Branch
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For Submittal To:

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May 15, 2018

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LIST OF ACRONYMS

BOD	Biological Oxygen Demand
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
DFSP	Defense Fuel Support Point
DLA Energy	Defense Logistics Agency Installation Operations Energy (DF-FEE) 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
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
MBAS	Methylene Blue Active Substances
MTBE	Methyl tertiary-Butyl Ether
NPDES	National Pollutant Discharge Elimination System
OM&M	Operations, Maintenance, and Monitoring
OVA	Organic Vapor Analyzer
ppm	Parts per million
SCAQMD	South Coast Air Quality Management District
scfm	Standard cubic feet per minute
SFPP	Santa Fe Pacific Pipelines Partners, L.P.
SGI	The Source Group, Inc.
SM	Standard Method

TBA	Tertiary-Butyl alcohol
TOC	Top of Casing
TPH	Total Petroleum Hydrocarbons
TPHd	Total Petroleum Hydrocarbons Quantified as Diesel
TPHg	Total Petroleum Hydrocarbons Quantified as Gasoline
VES	Vapor Extraction System
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency Installation Operations Energy (DF-FEE) Restoration Branch (DLA Energy), The Source Group, Inc. (SGI) presents this report to summarize remediation system operations during this reporting period (First Quarter 2018 - January 1, 2018 through March 31, 2018) 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 jet propellant number 5 (JP-5); diesel; benzene, toluene, ethylbenzene, and total xylenes (collectively, BTEX), 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.

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.

The impacted areas consist of the north-central former tank farm, the northeastern property boundary, off-site Holifield Park area, the northwest corner of the Site, and the southerly former water tank and truck fueling areas.

1.2 Remediation Technologies

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

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

1.2.1 Groundwater Extraction and Treatment System

The GWE well network for hydrocarbon extraction from dissolved-phase subsurface impacts historically includes wells installed in the northwestern area (GW-2 and GW-13), central tank farm area (GW-14), and eastern boundary area (GW-15, GW-16, and GMW-58). The system 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 any potential residual free product and/or oils/grease, three granular activated carbon (GAC) vessels in series (2,000 pound GAC-1, 2,000 pound GAC-2, and 1,500 pound GAC-3), and a minimum of two ion exchange vessels in series for copper and arsenic treatment prior to being discharged to the storm drain.

Operation of the groundwater extraction and treatment system (GWETS) is conducted in accordance with National Pollutant Discharge Elimination System (NPDES) permit CAG994004, CI No. 7585 and South Coast Air Quality Management District (SCAQMD) Permit to Operate G6962, A/N 501180. Active GWE wells are identified in Section 3.1 and Tables 2A through 2C.

1.2.2 Soil Vapor Extraction Systems

As illustrated on Figure 2, the soil vapor extraction well network for hydrocarbon extraction from vadose zone subsurface impacts historically includes 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).

Per SGI's February 15, 2018 *Remediation Status Report - Fourth Quarter 2017*, several new extraction wells located within the northeastern and southern areas of the Site (installed during November 2016 and June/July 2017 in accordance with SGI's June 30, 2017 *Remediation Well Installation Update Report*) were brought online during the prior reporting period (i.e., 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) following the completion of tie-in work to the carbon vapor extraction system (VES). During the current reporting period, the carbon VES was utilized to exclusively extract from three of the four horizontal wells (HW-1, HW-5 and HW-7) that span through the entire former tank farm area.

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

Operation of the carbon VES is conducted in accordance with SCAQMD Permit to Construct A/N 568793, formerly Permit to Operate G12863, A/N 518989. The current Permit to Construct was issued on March 6, 2015 to additionally allow for aboveground soil treatment activities at the Site which were completed in March 2017 (see Section 1.2.5 for further details). Active soil vapor extraction wells associated with the carbon VES are identified in Section 3.2 and Tables 3A through 3C.

The thermal oxidizer VES began operating on January 8, 2018 following the completion of system shakedown/testing activities during early January 2018. The RW wells listed above along with the remainder of the recently installed northeastern area wells (i.e., RW-3 through RW-6, RW-8, RW10, RW-11, and RW-14 through RW-17) were initially tied into the system (i.e., since vapor concentrations associated with this expanded remedial well network are generally too high to allow for cost-effective treatment via the existing carbon VES). Southern former truck fueling area wells RW-26, VEW-38, VEW-39 and VEW-40 were also tied into the thermal oxidizer VES prior to system startup.

Thermal oxidizer VES soil vapors are heated to a minimum temperature of 1,400 °F in accordance with SCAQMD Various Locations Permit F97121 prior to atmospheric discharge via a 13-foot tall stack. Active soil vapor extraction wells associated with the thermal oxidizer VES are identified in Section 3.2 and Tables 4A through 4C.

1.2.3 Biosparge System

The biosparge wells for hydrocarbon removal from dissolved-phase subsurface impacts are located in areas throughout the former tank farm and eastern boundary of the Site. The biosparge system has been off-line since the advent of recently completed soil cleanup activities per SGI's January 2018 *Shallow Soil Closure Report*. The system remains off-line while recommissioning work continues in accordance with SGI's June 30, 2017 *Remediation Well Installation Update Report*. Biosparge system operations are anticipated to resume on an expanded basis during Third Quarter 2018.

1.2.4 LNAPL Removal

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

An automated product recovery system connected to wells located in the north-central portion of the site has also operated since August 2016. LNAPL removal wells are identified in Sections 3.3 and 3.4, and Tables 5A through 5M. A map showing historical and current LNAPL extents is presented in Figure 3. As Figure 3 indicates, LNAPL removal activities to date have significantly reduced the product plume footprint.

1.2.5 Aboveground Soil Treatment

Per SGI's May 1, 2015 *Remediation Status Report - First Quarter 2015*, the excavation of impacted vadose zone soils at the Site began during January 2015 with soil biopiles initially connected to the carbon VES and brought online April 24, 2015 following the completion of aboveground treatment cell construction activities. 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 all of the remaining treatment cells being subsequently disconnected.

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 grade surface. The goal of this remediation was to cleanup source area soils that contributed to the degradation of groundwater, and ready the real property of the Site for eventual conveyance. Details associated with the OM&M of the biopiles are provided in prior remediation status reports. Further details regarding treatment cell construction and excavated soil cleanup activities are provided in SGI's January 2018 *Shallow Soil Closure Report*.

2.0 OPERATIONS, MAINTENANCE AND MONITORING

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

- Performed minimum weekly maintenance and monitoring of the carbon VES, thermal oxidizer VES and GWETS during operation;
- 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; and
- Performed weekly gauging of wells connected to the product recovery system to monitor for thicknesses sufficient to resume pumping, and continued extraction efforts from wells TF-16 (majority of quarter but not continually due to low yield periods, and skimmer was again shutdown in late March 2018 pending LNAPL recovery) , TF-18, RTF-18-E (until mid-March 2018 at which point LNAPL recovery was insufficient to allow for continued pumping), RTF-18-W and RTF-18-NW along with resuming extraction from well RTF-18-N, and adjusting the associated pump cycle durations and frequencies to optimize LNAPL removal.

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

2.1 Groundwater Extraction and Treatment System

The GWETS was off-line during the majority of the reporting period to conduct system/compound modification and upgrade work (January 23, 2018 to February 22, 2018), as well as for NPDES discharge permit compliance confirmation purposes (early January 2018) and the implementation of related measures to help ensure treatment to the specified requirements (March 2018). Regular GWETS operations resumed during April 2018. System OM&M details and performance results for the reporting period are summarized in Tables 2A through 2C.

Performance and compliance water samples from the GWETS were collected during the reporting period on January 11, January 15, February 26, February 28 and March 20 16, 2018. The water samples were delivered to American Analytics, Inc. of Chatsworth, California (American) for analysis. American is a laboratory certified by the California Department of Public Health Environmental Laboratory Accreditation Program (ELAP).

The water samples were analyzed for the following:

- TPHg (total petroleum hydrocarbons quantified as gasoline) and TPH quantified as diesel (TPHd) using United States Environmental Protection Agency (EPA) Method 8015M;

- VOCs using EPA Method 8260B;
- Metals (arsenic and copper) using EPA Method 6020;
- Oil and grease using Standard Method (SM) 5520 B;
- Turbidity using SM 2130 B;
- Sulfides using SM 4500 S2-D;
- Total dissolved solids using SM 2540 C;
- Total suspended solids using SM 2540 D;
- Settleable Solids using SM 2540 F;
- Methylene blue active substances (MBAS) using SM 5540 C;
- Phenols using EPA Method 420.1;
- Biological oxygen demand (BOD) using SM 5210 B; and
- Acute toxicity using EPA Method 2000.0.

The GWETS effluent groundwater sampling results were provided under separate cover in SGI's April 13, 2018 *Groundwater Discharge Monitoring Report*. A historical summary of influent water analytical sample results is provided in Table 6. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A. As the results indicate, GWETS concentrations continue to be at or near historically low/asymptotic levels with maximum TPHd, benzene and MTBE concentrations this period of 130 micrograms per liter ($\mu\text{g/L}$), 5.3 $\mu\text{g/L}$ and 0.49 $\mu\text{g/L}$, respectively. Maximum historic levels for these constituents are 6,300 $\mu\text{g/L}$ (May 2013), 230 $\mu\text{g/L}$ (February 2015) and 7.7 $\mu\text{g/L}$ (June 2008), respectively.

2.2 Soil Vapor Extraction Systems

The carbon VES operated most of the reporting period but was taken off-line on a few occasions to conduct carbon change out and/or maintenance work, as well as during early January 2018 as a carry over following the holidays. System operations otherwise occurred throughout the remainder of the reporting period. System OM&M details and performance results for the reporting period are summarized in Tables 3A through 3C.

Startup of the thermal oxidizer VES occurred on January 8, 2018 following procurement of the unit during November 2017 (including the permitting/installation of a propane tank), completion of all necessary electrical upgrade work during December 2017, and system shakedown/testing activities during early January 2018. System operations were limited to daytime hours throughout the reporting period due to noise concerns from nearby residents. Noise abatement measures implemented during both January and February 2018 helped to reduce sound levels but further measures are planned for the next reporting period to more comprehensively address residential concerns and allow full-time operations to commence. System OM&M details and performance results for the reporting period are summarized in Tables 4A through 4C.

As discussed in SGI's November 15, 2017 *Remediation Status Report - Third Quarter 2017*, additional extraction wells tied into the carbon VES during late June and early August 2017 as part of ongoing remediation expansion activities resulted in elevated system process concentrations. The elevated concentrations required an increased frequency of GAC change outs, following the utilization of the additional extraction wells during the last couple of quarters. The thermal oxidizer VES was thus installed last quarter along with completing tie-in activities associated with many of the new/relatively high-concentration remediation wells. Startup of the thermal oxidizer VES and tie-in of the remaining new remediation wells was completed during the current reporting period with the focus of the carbon VES being shifted to extraction from the relatively low concentration horizontal wells to reduce carbon usage and provide for comprehensive vadose zone cleanup throughout the former UST area.

Compliance and/or performance soil vapor samples from the carbon VES were collected in Tedlar bags during the reporting period on January 11, February 12, and March 28, 2018. Thermal oxidizer VES sampling was conducted on January 11 and March 14, 2018 (no samples were collected in February 2018 due to site condition and system operation status). All vapor samples were delivered to ELAP certified American for analysis.

The vapor samples were analyzed for the following:

- TPHg using EPA Method 8015; and
- BTEX and MTBE using EPA Method 8260B.

Historical summaries of influent vapor analytical sampling results for the carbon VES and thermal oxidizer VES are provided in Tables 7 and 8, respectively. The laboratory analytical reports and chain-of-custody documents for these samples are included in Appendix A. As the Table 7 results indicate, carbon VES concentrations have declined since the additional, relatively high concentration extraction wells, are now tied into the thermal oxidizer VES. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 1,500 µg/L (thermal oxidizer VES), 3.4 µg/L (carbon VES) and ND <2.0 µg/L, respectively. Maximum historic levels for these constituents are 2,500 µg/L for GRO (September 2017) and 3.9 µg/L for benzene (September 2017). MTBE has never been detected.

2.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Depth to product (DTP) and depth to groundwater (DTW) was 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 quarter. LNAPL was removed from select wells via manually bailing, active pumping using a portable product skimmer and by utilizing absorbent socks installed in select wells. Mass and volume removal estimates using these techniques are summarized in Tables 5A through 5F along with associated LNAPL gauging results.

2.4 Product Recovery System

The permitting and installation of the product recovery system was completed on August 8, 2016 at which time full-scale operations commenced. The system consists of six pneumatically activated product removal pumps (two additional pumps were procured during October 2017 in response to increasing LNAPL thickness trends from the prior reporting period) deployed in key wells located in the north-central portion of the Site.

All pumped product is routed to an AST located within the existing treatment compound via double contained conveyance piping for subsequent off-site removal by a licensed transport, recycling and disposal company. LNAPL removal is determined individually for wells with product removal pumps based on interpolating the total volume of product collected in the AST during a given quarter and periodically measuring the volume of LNAPL recovered per cycle for each pump (i.e., portion of total AST product volume assigned to each pump calculated from well-specific cycle duration and frequency values programmed on the basis of current gauging and yield data).

Product recovery system OM&M continued through the current reporting period. Per SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan*, enhanced LNAPL recovery testing was also conducted during October and November 2017. Activities included vacuum-enhanced product skimming, bail down and total fluid extraction testing, and a bench-scale surfactant treatability study using soil, groundwater and LNAPL samples collected during June 2017 following the installation of pilot test wells around existing well RTF-18-NW. Details associated with the OM&M of the automated system this quarter are provided in Tables 5G through 5M.

2.5 Biosparge System

The biosparge system remains off-line as recommissioning efforts continue. The biosparge wells associated with the original system are located in areas throughout the former tank farm and eastern boundary of the Site. As summarized on Table 1, several of these wells were abandoned to allow for the excavation of impacted soil from the area at or surrounding each respective well per (see Section 1.2.5) or were confirmed to be missing/destroyed during September 2016 field reconnaissance work.

Dual-nested soil vapor extraction and biosparge wells RW-1 through RW-34 were recently installed during late June and early July 2017 with additional wells being installed during the prior reporting period (Table 1). All of these wells were installed as part of planned remedial expansion activities to target impacts in the northeastern, central and former truck fueling areas of the Site (Figure 2) in accordance with SGI's March 14, 2017 *Well Replacement Report and Work Plan*, and June 30, 2017 *Remediation Well Installation Update Report*.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Groundwater Extraction and Treatment System

The GWETS again extracted groundwater from the northwest (GW-2 and GW-13) and northeast (GW-15 and GW-16) areas of the Site during the reporting period (pumping well GW-13 brought back online in early January 2018 following the completion of conveyance line repair/replacement work during mid-December 2017). The total volume of groundwater extracted by the GWETS this quarter was approximately 189,822 gallons, and an estimated 77,903,035 gallons have been extracted since April 1996.

A lower than normal volume of groundwater was extracted during the reporting period as system/compound modification and upgrade work, including re-piping the treatment vessels to simplify the setup as well as replacing the surge tank with a newer unit, was conducted from January 23, 2018 to February 22, 2018. The limited system uptime was also due to the implementation of NPDES discharge permit compliance measures designed to help ensure treatment to the specified requirements. As a result, only a few days of extraction occurred during March 2018 with no actual discharge from February 28, 2018 through the end of the reporting period (regular GWETS operations resumed during April 2018).

Based on the TPHd results for influent water samples and total groundwater extracted, the mass of TPHd removed by GWE this period (First Quarter 2018) was approximately 0.1 pounds, and an estimated 9,945 pounds have been removed since April 1996 (Table 2C).

3.2 Soil Vapor Extraction Systems

During the reporting period, the carbon VES no longer extracted from the recently installed northeastern and southern area remediation wells (RW-1, RW-9, RW-13, RW-18, RW-20, RW-22 through RW-24, RW-26, and RW-28 through RW-33) but rather focused entirely on three of the four horizontal wells that span through the entire former tank farm area (i.e., HW-1, HW-5 and HW-7 with HW-3 again remaining off-line after it was determined to be yielding minimal flow during July 2017). Horizontal well HW-3 was scoped during November 2017 and determine to have collapsed in two separate locations. Testing from the southern end of the well is planned for next quarter since the area where it has collapsed on that end is well over 100 feet from the connection point.

Prior to the January 8, 2018 startup of the thermal oxidizer VES, vertical wells VEW-38, VEW-39 and VEW-40 (tied into the carbon VES during Second Quarter 2017 and located in the former truck fueling area; see Figure 2) were also disconnected from the carbon VES and tied into this new system (along with wells RW-1, RW-9, RW-13, RW-18 and RW-26). Tie in of wells RW-2 through RW-8, RW-10 through RW-12, and RW-14 through RW-17 to the thermal oxidizer VES was additionally completed on February 14, 2018.

Since the recently installed northeastern and southern area wells generally exhibit concentrations beyond what can feasibly be processed by the carbon VES (without simultaneous extraction from lower concentration wells and/or dilution air), the use of the thermal oxidizer for vapor abatement allows for more cost-effective cleanup. As concentrations begin to decline in these recently installed wells, they can be individually re-connected to the carbon VES to complete the cleanup at each respective location. In the meantime, the newly installed thermal oxidizer VES will continue to be utilized to target the most impacted wells across the site as best as possible until this relatively small (500 scfm) temporary unit can be replaced with an appropriately sized (3,000 scfm) permanent/full-scale thermal/catalytic oxidizer (anticipated to be operational during Third Quarter 2018).

The total mass of VOCs removed via both vapor extraction systems during this period (First Quarter 2018) was approximately 3,554 pounds (3,252 pounds via the carbon VES and 302 pounds via the thermal oxidizer VES), and an estimated 2,970,606 pounds have been removed since April 1996 (Tables 3A, 3B and 3C) via the carbon VES.

The relatively low additional mass of VOCs removed by the thermal oxidizer VES this quarter (i.e., 302 pounds or a combined total of 2,970,908 pounds via both systems since April 1996) is due in large part to the limited overall uptime (Tables 4A, 4B and 4C) associated with only being able to operate the unit during daytime hours, as discussed previously. It is anticipated that full-time thermal oxidizer VES operations will begin during the next reporting following the implementation of additional noise abatement measures to more comprehensively address residential concerns. Note that the total estimated mass of VOCs removed via soil vapor extraction does not account for any mass removed *in-situ* via biodegradation.

3.3 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

During the reporting period, DTW and DTP was measured approximately every two weeks in well GMW-62 located off site in Holifield Park, wells GMW-7, GMW-18, GMW-68, TF-15, TF-16, TF-18 and TF-19, and recently installed wells RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW and RTF-18-NNW (all installed in the vicinity of existing well TF-18 to enhance LNAPL removal in that area). As detailed in the following section, these recently installed wells were all connected to an automated product recovery system along with well TF-18 during August 2016 (well TF-16 was most recently connected to this system during March 2017).

For the remaining listed wells, LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks installed in select wells. Approximately 28 gallons (190 pounds) of LNAPL was recovered from the Site this period (Tables 5A through 5F) via these techniques. The waste manifest associated with the product that was removed this period is provided as Appendix B.

3.4 Product Recovery System

Enhanced LNAPL recovery testing and natural source zone depletion testing was conducted this quarter (early February 2018) per SGI's December 8, 2017 *LNAPL Conceptual Site Model and Remediation Plan*. Additionally, LNAPL bail down testing was conducted (late February and early

March 2018) on eight recently installed wells (TFR-9, TFR-12, TFR-18, TFR-22, TFR-27, TFR-29, TFR-33 and GW-14R) that were selected on the basis of product thicknesses. Details and results/findings associated with these various LNAPL tests will be provided under separate cover.

A total of approximately 187 gallons (1,280 pounds) of LNAPL was pumped from wells TF-16, TF-18, RTF-18-N, RTF-18-E, RTF-18-W and RTF-18-NW during the reporting period. The LNAPL thickness in product recovery system well RTF-18-NNW was again insufficient to allow for the resumption of pumping this period (off-line since January 2017 but recovery has increased further from the prior to current reporting periods such that skimming is scheduled to resume next quarter), and the yield in wells RTF-18-E and TF-16 declined to the point where the pumps needed to be temporarily turned off for a couple weeks at a time on March 15, 2018 and March 28, 2018, respectively (note that in the case of TF-16, the pump was also temporarily turned off a few times during the current reporting period for the same reason).

LNAPL gauging results along with cumulative mass and volume removal estimates from all of the wells listed above are summarized in Tables 5G through 5M. As the tables indicate, product thicknesses generally remained somewhat stable during the current reporting period.

When combined with the product recovery estimate from the preceding section, a total of approximately 215 gallons (1,470 pounds) of LNAPL was removed from the Site during First Quarter 2018, and an estimated 6,662 gallons (45,583 pounds) of LNAPL has been removed since January 2014. The advent of product recovery system operations since August 2016 has thus resulted in the successful removal of over 85% of all the LNAPL recovered from the Site in just over four years.

The waste manifest associated with the product that was removed from storage drums and/or the above ground storage tank this period is provided as Appendix B. Note that the estimated product removal volumes during the prior reporting period, as well as the volumes presented Tables 5A through 5M for this period, account for a 94% reduction in the total volume of 750 gallons shown on the manifest. This reduction is based on a laboratory determination of the percentage of water per load which is shown on the receiving ticket that is also included in Appendix B. Specifically, since 94% of the total manifested volume of 750 gallons was analytically determined to be water (i.e., 705 gallons), the remaining 6% of the total volume is product (i.e., 45 gallons).

This anomalously large percentage of water is due to the fact that the attached manifest from January 11, 2018 is predominantly associated with the above mentioned enhanced LNAPL recovery testing activities (i.e., SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan*) rather than just standard product recovery system operations and LNAPL removal via bailing, skimming and absorbent socks.

3.5 Biosparge System

Recommissioning of the former biosparge system continued during the reporting period. Conveyance piping and control vaults were installed for wells in the southern area (RW-19 through RW-34), and the electrical controls and manifold for the expanded system were upgraded to accommodate additional trunk line piping. Another 38 biosparge wells were also recently installed

per SGI's October 11, 2017 *Addendum to Revised Remedial Action Plan* and June 30, 2017 *Remediation Well Installation Update Report* (details to be provided in a forthcoming report). The resumption of biosparge system operations on an expanded basis is anticipated to commence during Third Quarter 2018.

4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION

Remedial system optimization activities are ongoing at the Site to help ensure effective cleanup operations. For the carbon VES, vapor-phase VOC concentrations from the horizontal wells (i.e., HW-1, HW-5 and HW-7) remained relatively stable this quarter although HW-1 concentrations appear to have declined again following an increasing trend from last quarter following the completion of rehabilitation work during July 2017 (i.e., after wells HW-1 and HW-3 were determined to be plugged in mid-July 2017). Extraction from these wells was optimized by adjusting the HW-1 and HW-5 wells valves to partially open positions in accordance with recent field readings (Table 9A) and/or lab data (Table 10) while leaving HW-7 fully open since it is the most impacted horizontal well.

Well HW-3 remained off-line during the reporting period after exhibiting only minimal flow following July 2017 rehabilitation work and was determined to be collapsed in two separate locations based on the results of November 2017 scoping work. Testing from the southern end of the well is planned for the next reporting period since the area where it has collapsed on that end is over 100 feet from the connection point.

For the thermal oxidizer VES, just a handful of recently installed northeastern and southern area wells were initially brought online upon startup (i.e., VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26) following the completion of system shakedown/testing activities in early January 2018. The remaining recently installed northeastern area wells were subsequently brought online during mid-February 2018 with wells RW-3, RW-6, RW-12, RW-15, RW-16 and RW-17 subsequently being taken off-line in mid-March 2018 as part of system optimization activities.

Vertical wells VEW-32 through VEW-37 were again left off-line this quarter based on continued low/asymptotic field readings (Table 9A) which are consistent with the laboratory results from late June 2017 (Table 10). Conversely, recently installed and tied-in wells VEW-38 and VEW-40 continued to be operated during the reporting period based on field readings (Table 9A) and laboratory results (Table 10) which show VEW-40 concentrations to be relatively high on a site-wide and historical basis.

As the ongoing trenching and piping installation work progresses, and additional wells are connected to the trunk lines and brought online, further operational adjustments will be made to prioritize mass extraction from the most impacted wells. Total system runtime during the quarter only added up to a couple of weeks due to the previously mentioned noise concerns from nearby residents (i.e., operations limited to daytime hours) which are anticipated to be more comprehensively addressed during the next reporting period such that continuous operations can commence. In the meantime, the carbon VES will continue to run on a full-time basis with thermal oxidizer VES operations being again limited to just daytime hours during the week and off-line each weekend.

Once the thermal oxidizer can be operated on a full-time basis, reconfiguration of the respective vapor extraction systems will be conducted regularly to allow for cost-effective site-wide cleanup. Thus, as levels in one or more currently high concentration wells decline to the point where carbon treatment becomes feasible, the well(s) will be progressively disconnected from the thermal oxidizer

VES and tied into the carbon VES. Note that due to the recent completion of electrical upgrade work, simultaneous full-time operation of both vapor extraction systems can be conducted while further upgrade work is performed to allow the future permanent/full-scale thermal/catalytic oxidizer VES to be brought online later this year. The permanent/full-scale thermal/catalytic oxidizer VES will replace the temporary existing system and run concurrently with the carbon VES.

The planned resumption of biosparge system operations on an expanded basis is also anticipated to occur during the latter half of 2018. Details associated with expanded system operations will be provided in a forthcoming document. In the meantime, SGI will continue to monitor individual well influent vapor concentrations associated with each existing VES, and modify which extraction wells are online along with adjusting respective valve positions, as necessary.

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

GWE in the northwest and northeast areas will continue to assist with contaminant containment. Additionally, absorbent sock installation and LNAPL recovery via pumping and/or manual bailing will continue along with full-scale OM&M of the product recovery system. As indicated on Tables 5G through 5L, LNAPL recovery sufficient to allow for pumping continued in wells TF-16, TF-18, RTF-18-N, RTF-18-W and RTF-18-NW during the reporting period, with well RTF-18-E operating the majority of the quarter but taken off-line again in late March 2018 due to insufficient yield. Well RTF-18-NNW again remained off-line (since January 2017 per Table 5M) this quarter but product thicknesses have continued to increase to the point where skimming is anticipated to resume during the next reporting period.

Up-to-date gauging data will continue to be collected during the next reporting period with rotating recovery operations being implemented on the basis of ongoing performance data. If warranted by the data, pumping will also resume in any locations where it was previously conducted such as GMW-68 where automated operations were temporarily conducted during Third Quarter 2017 (via the use of a dedicated pump and truck-mounted pumping power equipment) but have no longer been necessary since September 2017 (Table 5D).

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 will also be made on the basis of ongoing bail down testing which is conducted to establish current transmissivity values for correlating apparent to actual product thicknesses.

Pilot testing was also conducted during the prior reporting period in accordance with SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan* to evaluate the feasibility of

system expansion and/or enhanced product recovery with the goal of achieving LNAPL removal to the maximum extent practicable. The testing details and results/findings will be provided under separate cover.

5.0 PLANNED SECOND QUARTER 2018 ACTIVITIES

During the next reporting period, DLA Energy plans to continue to focus in-situ remedial efforts on the northwestern, northeastern, north-central and southerly former truck fueling areas of the Site along with completing the remaining items necessary to resume biosparge system operations on an expanded basis. Following is a summary of planned Second Quarter 2018 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the carbon VES, thermal oxidizer VES and GWETS, including measuring individual well vapor concentrations with an organic vapor analyzer (OVA); and collecting/analyzing influent and effluent vapor and groundwater samples;
- Collect individual extraction well vapor samples for laboratory analysis, including former AST area horizontal wells and/or those located along the eastern to northeastern property boundary, and southern former water tank and truck fueling areas;
- Complete conveyance line installation work to allow for the future tie-in of additional remediation wells to the system (i.e., recently installed central and southern area wells not hooked up for vapor extraction during the current reporting period);
- Conduct additional testing from the southern end of well HW-3 to determine if extraction from the remaining intact portion of this well is still viable following visual confirmation that the casing collapsed in two separate locations (non-operational since July 2017);
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GMW-7, GWM-18, GWM-62 and GMW-68 (both located off site in Holifield Park), TF-15, TF-19, and product recovery system wells TF-16, TF-18, RTF-18-N, RTF-18-E, RTF-18-W, RTF-18-NW and RTF-18-NNW;
- Continue controlled product recovery system OM&M from wells TF-16, TF-18, RTF-18-N, RTF-18-E, RTF-18-W, and/or RTF-18-NW, located in the north-central portion of the Site, with focused efforts in wells where LNAPL yields are the most significant;
- Conduct automated product recovery from applicable wells (e.g., GWM-18, GWM-68 and/or TF-15) using truck-mounted pumping power equipment (if warranted based on current LNAPL gauging data) with extraction frequencies and durations adjusted accordingly to help maximize the yield without isolating the well from the product plume;
- Resume regular GWETS operations following the recent completion of system/compound modification and upgrade work, and the implementation of NPDES discharge permit compliance measures to help ensure treatment to the specified requirements;
- Continue to evaluate GWE flow rates and confirm contaminant containment;
- Install conveyance piping and control vaults for connecting the 38 additional biosparge wells installed during the prior reporting period per SGI's October 11, 2017 *Addendum to Revised*

Remedial Action Plan and June 30, 2017 *Remediation Well Installation Update Report* (details to be provided in a forthcoming report);

- Prepare and submit a report detailing the results/findings of recently conducted testing, including natural source zone depletion testing, described in SGI's December 8, 2017 *LNAPL Conceptual Site Model and Remediation Plan*;
- Complete recommissioning activities associated with the former biosparge system, including installation of an upgraded electrical control manifold (to accommodate additional trunk line piping) along with the system canopy so that operations can subsequently resume on an expanded basis;
- Begin full-time operations of the temporary thermal oxidizer VES following the implementation of additional noise abatement measures to allow for enhanced mass removal and continued cost-effective treatment of at least some of the highest concentration vapor extraction wells (i.e., such a unit is only available at a size that is too small to process all of the flow from recently tied-in wells, and all of the remaining additional wells anticipated to be hooked up during the next reporting period but has the advantage of rapid implementation until installation of the full-scale thermal/catalytic oxidizer is completed later during 2018);
- Continue to utilize the carbon VES for focused extraction from the relatively low concentration horizontal wells that span the entire former tank farm area to allow for reasonable carbon usage rates while achieving comprehensive site-wide vadose zone cleanup in conjunction with the thermal oxidizer VES (i.e., treatment of both relatively high and low concentration wells via the simultaneous use of both vapor abatement technologies);
- Complete the required permitting and electrical/gas service line upgrade work in preparation for the deployment and hookup of the permanent/full-scale thermal/catalytic oxidizer (i.e., designed to cost-effectively process high concentration (thermal mode above approximately 3,000 parts per million [ppm]) to moderate concentration (catalytic mode from approximately 500 ppm to 3,000 ppm) well flows with any remaining low concentration (less than approximately 500 ppm) well flows being more cost-effectively treated via the existing GAC system);
- Complete the decommissioning of the defunct former thermal oxidizer at the Site to make room for the replacement full-scale unit (disassembled near the end of the current reporting period and staged outside the treatment compound for future transport/disposal); and
- Prepare and submit a final report documenting the activities and results/findings associated with enhanced LNAPL recovery testing recently conducted in accordance with SGI's January 18, 2017 *TF-18 Area LNAPL Recovery Report and Interim Work Plan*.

Ongoing remediation activities and progress will be described in the *Second Quarter 2018 Remediation Progress Report* to be submitted by August 15, 2018.

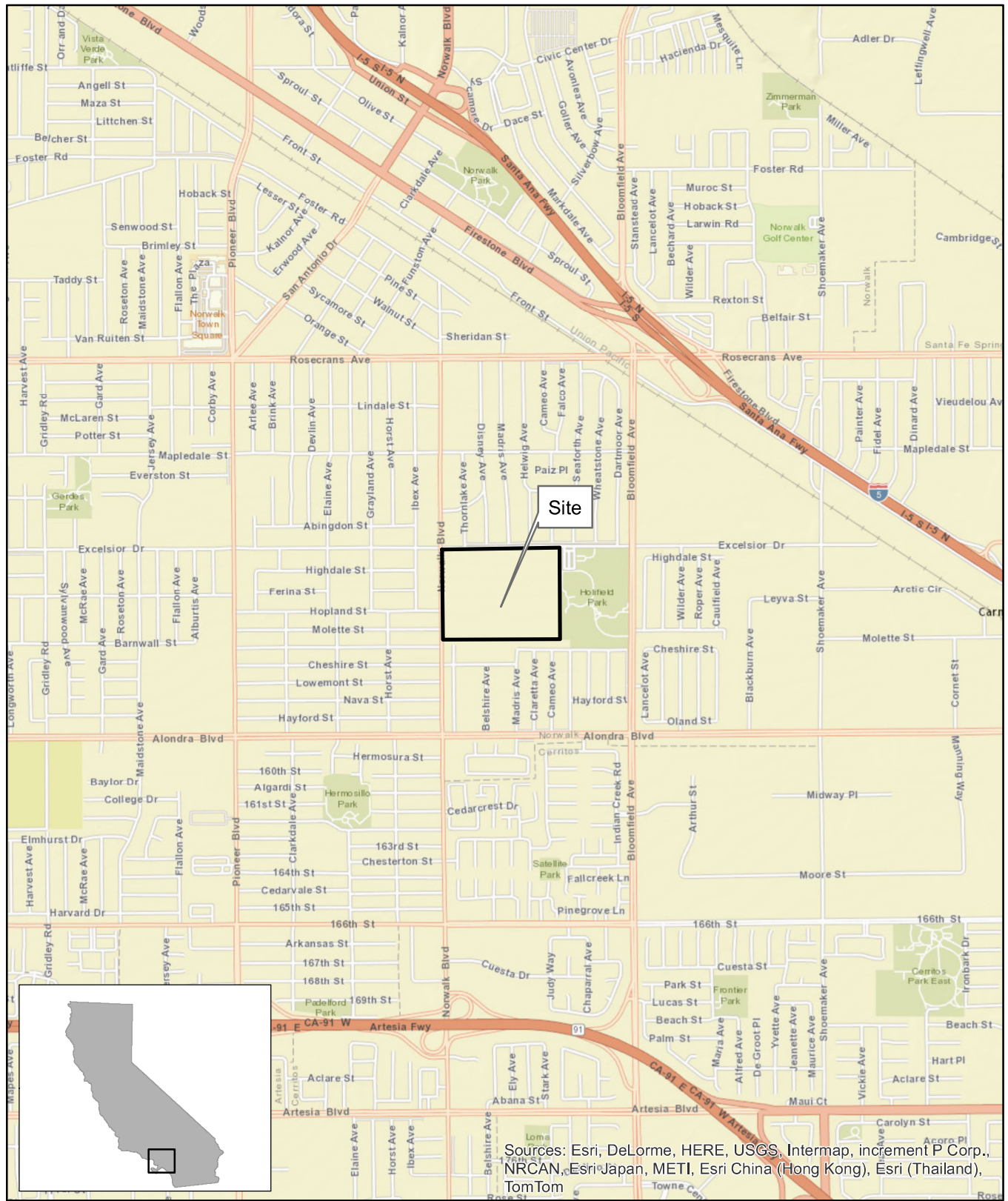
6.0 LIMITATIONS

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

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

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

FIGURES



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

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

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

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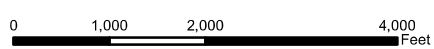


FIGURE
1

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

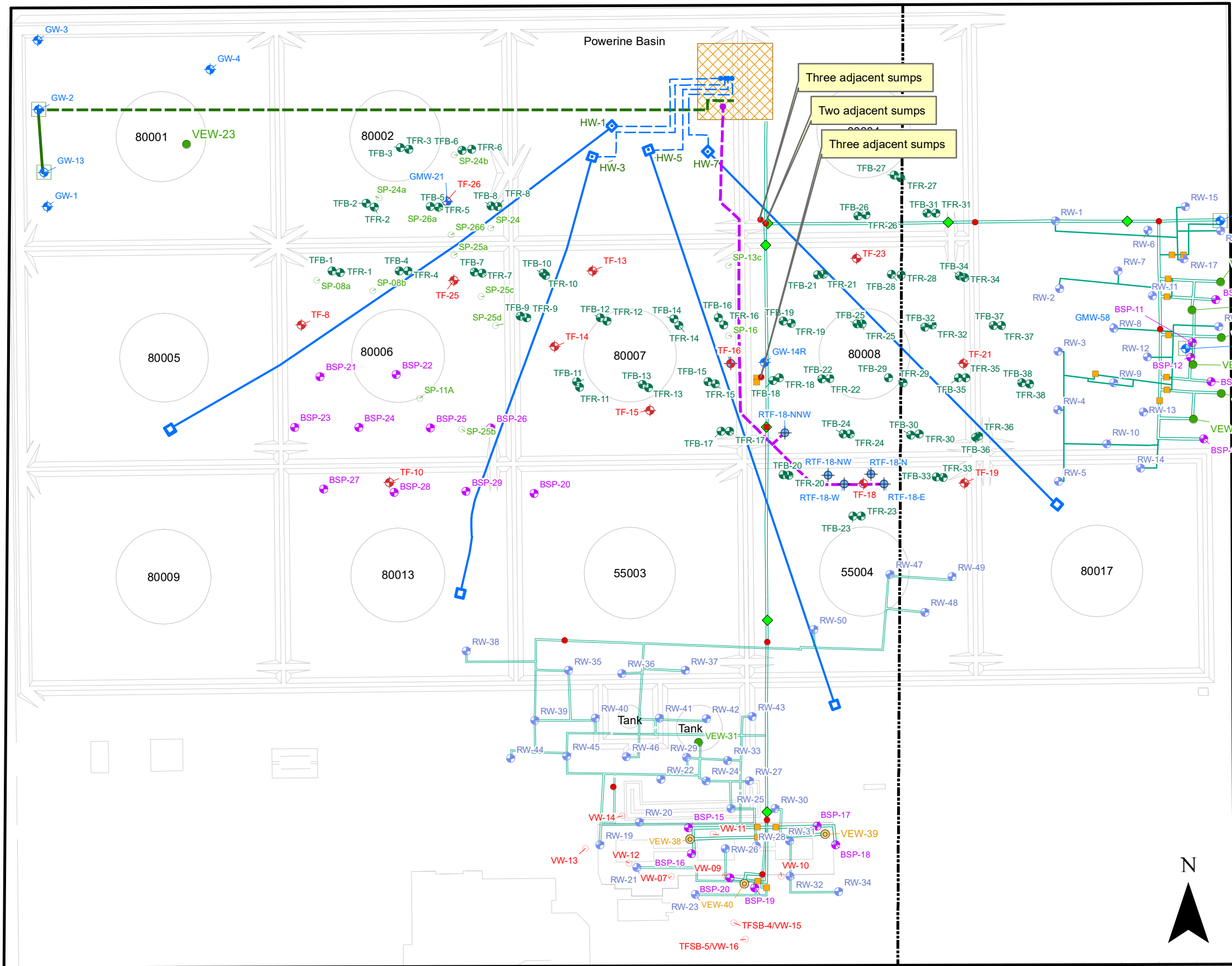
**DEFENSE FUEL SUPPORT POINT
NORWALK**
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

SITE LOCATION MAP

Norwalk Blvd

Excelsior Dr

Powerline Basin

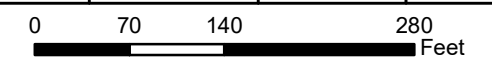


Legend

- Former Above Ground Storage Tanks
- DFSP Norwalk Border
- Existing Treatment System
- 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
- Groundwater Extraction Wells
- Biosparging Wells (2016-2018)
- Biosparging Wells (April 2007)
- Vapor Extraction Wells (November 2016)
- Vapor Extraction Wells (April 2007)
- Biosparging and Vapor Extraction Wells
- Total Fluid and Groundwater Extraction Wells
- Co-Located Total Fluid and Biosparging Wells
- Vapor Extraction Wells (2004)
- Sparging Points (August 2004)
- Access Vaults for Groundwater Extraction Piping
- Condensate Sump for Vapor Extraction Piping
- Remediation System Control Vaults

DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	05/01/2018	PW	MW



Site Map Showing Remediation Well and Piping Locations

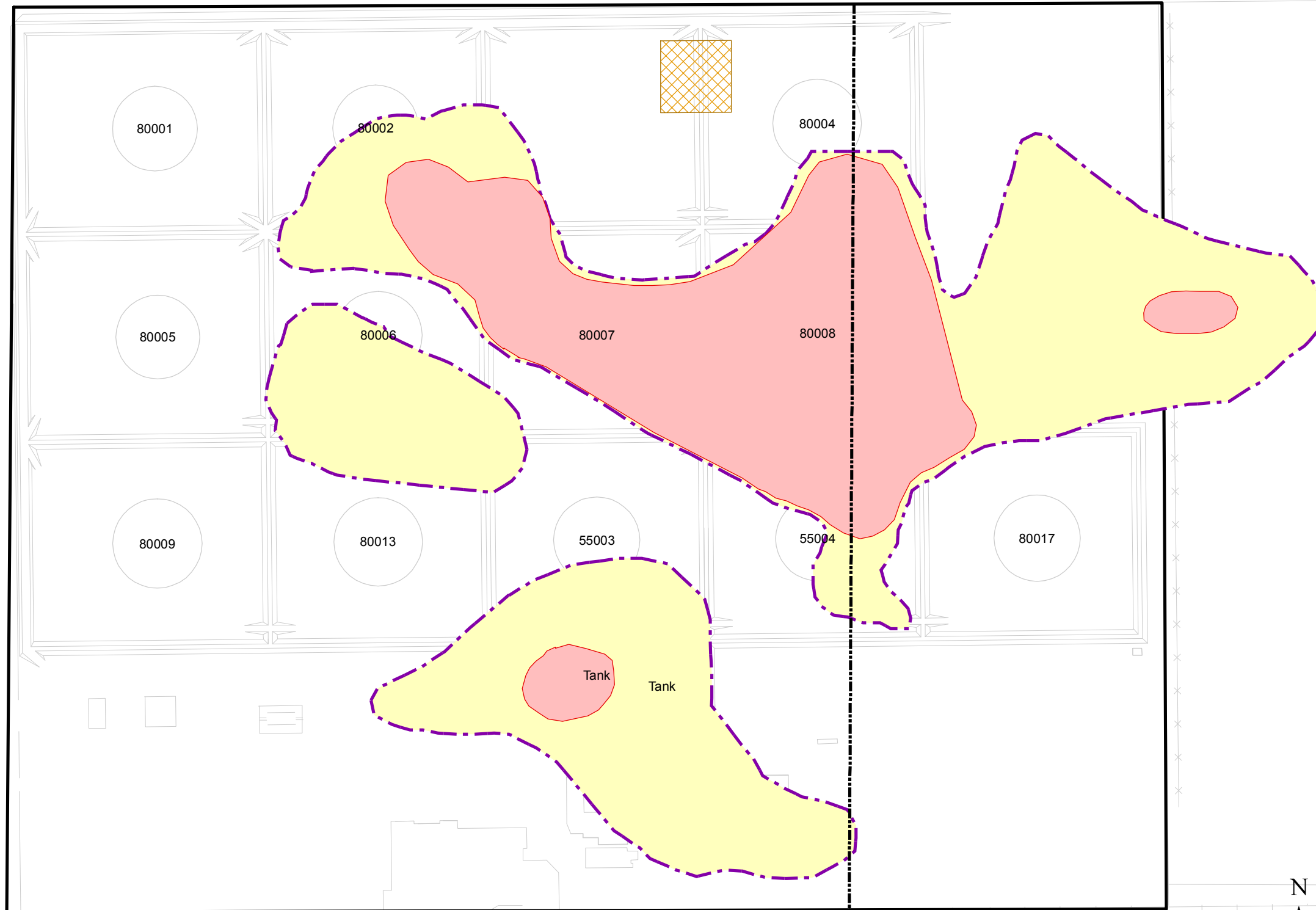
SGI THE SOURCE GROUP, INC.
environmental
1962 Freeman Avenue
Signal Hill, CA 90755
(562) 597-1055

Figure 2






Norwalk Blvd

Excelsior Dr

Powerine Basin



Legend

-  Former Above Ground Storage Tanks
-  DFSP Norwalk Border
-  Treatment System
-  Interpreted Maximum Current Lateral Extent of LNAPL
-  Interpreted Maximum Historical Lateral Extent of LNAPL

Notes

Maximum historical lateral LNAPL extent based on available gauging, UVOST and groundwater analytical data.

Maximum current lateral LNAPL extents based on available gauging data collected from April 2017 and September to October 2017.

DFSP Norwalk

15306 Norwalk Boulevard
Norwalk, California

Project Number:	Date:	Drawn By:	Approved By:
04-NDLA-007	04/20/2018	PW	MW



Site Map Showing Historical and Current LNAPL Extent

SGI environmental
THE SOURCE GROUP, INC.
1962 Freeman Avenue
Signal Hill, CA 90755
(562) 597-1055

Figure 3

TABLES

TABLE 1
Remediation Well Construction Details
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-West (AST 80001)	GW-1		06/12/95	75.97	63	25 - 60	GWE
	GW-2		06/12/95	75.78	63	25 - 60	GWE
	GW-3		06/13/95	75.79	63	25 - 60	GWE
	GW-4		06/12/95	75.78	63	25 - 60	GWE
	GW-13		04/26/07	76.85	67	25 - 65	GWE
	VEW-23		08/03/04	76.20	25	15 - 25	SVE
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	VEW-22		--	--	25	15 - 25	SVE
	HW-1		--	--	25	Continuous	SVE
	HW-3		--	--	25	Continuous	SVE
	HW-5		--	--	25	Continuous	SVE
	HW-7		--	--	25	Continuous	SVE
	GMW-21	1	08/02/91	76.23	50	25 - 50	TFE/GWE
	GW-14R	2	11/08/16	78.77	50	25 - 50	GWE
	SP8a		--	--	50	48 - 50	Biosparge
	SP-8b		--	--	50	48 - 50	Biosparge
	SP-11b		--	--	50	48 - 50	Biosparge
	SP-11c		--	--	50	48 - 50	Biosparge
	SP-13b	3	--	--	50	48 - 50	Biosparge
	SP-13c		--	--	50	48 - 50	Biosparge
	SP-15	4	--	--	50	48 - 50	Biosparge
	SP-16		--	--	50	48 - 50	Biosparge
	SP-24		--	--	50	48 - 50	Biosparge
	SP-24a		--	--	50	48 - 50	Biosparge
	SP-24b		--	--	50	48 - 50	Biosparge
	SP-25a		--	--	50	48 - 50	Biosparge
	SP-25b		--	--	50	48 - 50	Biosparge
	SP-25c		--	--	50	48 - 50	Biosparge
	SP-25d		--	--	50	48 - 50	Biosparge
	SP-26		--	--	50	48 - 50	Biosparge
	SP-26a		--	--	50	48 - 50	Biosparge
	TF-8		09/22/95	74.86	63	25 - 60	TFE, GWE
	TF-9	5	09/22/95	74.47	63	25 - 60	TFE, GWE
	TF-10		09/25/95	73.61	63	25 - 60	TFE, GWE
	TF-11	5	09/25/95	74.40	63	25 - 60	TFE, GWE
	TF-13		09/26/95	75.47	63	25 - 60	TFE, GWE
	TF-14		09/27/95	74.35	63	25 - 60	TFE, GWE
	TF-15		09/28/95	74.78	63	25 - 60	TFE, GWE
	TF-16		09/28/95	75.89	63	25 - 60	TFE, GWE
TF-17	6	09/29/95	74.88	63	25 - 60	TFE, GWE	
TF-18		07/06/94	73.75	50.5	20 - 50	TFE, GWE	
TF-19		10/03/95	75.07	63	25 - 60	TFE, GWE	
TF-20	7	10/03/95	75.08	63	25 - 60	TFE, GWE	
TF-21		09/29/95	74.96	63	25 - 60	TFE, GWE	
TF-22	8	10/02/95	74.76	63	25 - 60	TFE, GWE	
North-Central (AST 80002, AST 80006, AST 80008, AST 55004)	TF-23		07/05/94	75.31	50.5	20 - 50	TFE, GWE
	TF-24	9	09/26/95	76.43	63	25 - 60	TFE, GWE
	TF-25		04/04/01	74.85	47	26 - 36	TFE, GWE
	TF-26		04/03/01	75.85	47	26 - 36	TFE, GWE
	RTF-18-N		12/28/15	75.17	40	25 - 40	TFE, GWE
	RTF-18-E		12/28/15	75.19	40	25 - 40	TFE, GWE
	RTF-18-W		12/28/15	74.86	40	25 - 40	TFE, GWE
	RTF-18-NW		12/29/15	76.22	40	25 - 40	TFE, GWE
RTF-18-NNW		12/29/15	76.77	40	25 - 40	TFE, GWE	

TABLE 1
Remediation Well Construction Details
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	BSP-21	10	12/07/17	--	46	43 - 45	Biosparge
	BSP-22	10	12/07/17	--	46	43 - 45	Biosparge
	BSP-23	10	12/08/17	--	46	43 - 45	Biosparge
	BSP-24	10	12/07/17	--	46	43 - 45	Biosparge
	BSP-25	10	12/08/17	--	46	43 - 45	Biosparge
	BSP-26	10	12/08/17	--	46	43 - 45	Biosparge
	BSP-27	10	12/07/17	--	46	43 - 45	Biosparge
	BSP-28	10	12/07/17	--	46	43 - 45	Biosparge
	BSP-29	10	12/08/17	--	46	43 - 45	Biosparge
	BSP-30	10	12/11/17	--	46	43 - 45	Biosparge
	TFR-1	10	12/13/17	--	40	20 - 40	TFE, SVE
	TFR-2	10	12/12/17	--	40	20 - 40	TFE, SVE
	TFR-3	10	12/12/17	--	40	20 - 40	TFE, SVE
	TFR-4	10	12/13/17	--	40	20 - 40	TFE, SVE
	TFR-5	10	12/12/17	--	40	20 - 40	TFE, SVE
	TFR-6	10	12/12/17	--	40	20 - 40	TFE, SVE
	TFR-7	10	12/13/17	--	40	20 - 40	TFE, SVE
	TFR-8	10	12/12/17	--	40	20 - 40	TFE, SVE
	TFR-9	10	12/13/17	--	40	20 - 40	TFE, SVE
	TFR-10	10	12/11/17	--	40	20 - 40	TFE, SVE
	TFR-11	10	12/11/17	--	40	20 - 40	TFE, SVE
	TFR-12	10	12/11/17	--	40	20 - 40	TFE, SVE
	TFR-13	10	12/15/17	--	40	20 - 40	TFE, SVE
	TFR-14	10	12/13/17	--	40	20 - 40	TFE, SVE
	TFR-15	10	12/14/17	--	40	20 - 40	TFE, SVE
	TFR-16	10	12/14/17	--	40	20 - 40	TFE, SVE
	TFR-17	10	12/14/17	--	40	20 - 40	TFE, SVE
	TFR-18	10	12/14/17	--	40	20 - 40	TFE, SVE
	TFR-19	10	12/12/17	--	40	20 - 40	TFE, SVE
	TFR-20	10	12/15/17	--	40	20 - 40	TFE, SVE
	TFR-21	10	12/11/17	--	40	20 - 40	TFE, SVE
	TFR-22	10	11/30/17	--	40	20 - 40	TFE, SVE
	TFR-23	10	11/29/17	--	40	20 - 40	TFE, SVE
	TFR-24	10	11/30/17	--	40	20 - 40	TFE, SVE
	TFR-25	10	11/30/17	--	40	20 - 40	TFE, SVE
	TFR-26	10	11/29/17	--	40	20 - 40	TFE, SVE
	TFR-27	10	11/29/17	--	40	20 - 40	TFE, SVE
	TFR-28	10	11/29/17	--	40	20 - 40	TFE, SVE
	TFR-29	10	11/29/17	--	40	20 - 40	TFE, SVE
	TFR-30	10	11/29/17	--	40	20 - 40	TFE, SVE
	TFR-31	10	11/29/17	--	40	20 - 40	TFE, SVE
	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	

TABLE 1
Remediation Well Construction Details
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
North-Central (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	TFB-9	10	12/04/17	--	46	43 - 45	Biosparge
	TFB-10	10	12/04/17	--	46	43 - 45	Biosparge
	TFB-11	10	12/04/17	--	50	48 - 50	Biosparge
	TFB-12	10	12/01/17	--	46	43 - 45	Biosparge
	TFB-13	10	12/01/17	--	46	43 - 45	Biosparge
	TFB-14	10	11/30/17	--	46	43 - 45	Biosparge
	TFB-15	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-16	10	11/28/17	--	46	43 - 45	Biosparge
	TFB-17	10	11/28/17	--	46	43 - 45	Biosparge
	TFB-18	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-19	10	11/28/17	--	46	43 - 45	Biosparge
	TFB-20	10	11/30/17	--	46	43 - 45	Biosparge
	TFB-21	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-22	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-23	10	11/28/17	--	46	43 - 45	Biosparge
	TFB-24	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-25	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-26	10	11/22/17	--	46	43 - 45	Biosparge
	TFB-27	10	11/21/17	--	46	43 - 45	Biosparge
	TFB-28	10	11/22/17	--	46	43 - 45	Biosparge
	TFB-29	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-30	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-31	10	11/21/17	--	46	43 - 45	Biosparge
	TFB-32	10	11/22/17	--	46	43 - 45	Biosparge
	TFB-33	10	11/27/17	--	46	43 - 45	Biosparge
	TFB-34	10	11/21/17	--	46	43 - 45	Biosparge
	TFB-35	10	11/27/17	--	46	43 - 45	Biosparge
	RW-35	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-36	10	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-37	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
	RW-38	10	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
	RW-47	10	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
RW-48	10	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
RW-49	10	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge	
RW-50	10	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge	
North-East	BSP-1	11	04/18/07	--	50	47 - 49	Biosparge
	BSP-2	11	04/18/07	--	50	48 - 50	Biosparge
	BSP-3	11	04/17/07	--	48	46 - 48	Biosparge
	BSP-4	11	04/17/07	--	49	47 - 49	Biosparge
	BSP-5	11	04/17/07	--	49.5	47 - 49	Biosparge
	BSP-6	11	04/18/07	--	49	47 - 49	Biosparge
	BSP-7	11	04/19/07	--	48	46 - 48	Biosparge
	BSP-8	11	04/19/07	--	48	46 - 48	Biosparge
	BSP-9	11	04/19/07	--	48	46 - 48	Biosparge
	BSP-10	12	11/04/16	--	46.5	44 - 46	Biosparge
	BSP-11	12	11/04/16	--	40	38 - 40	Biosparge
	BSP-12	12	11/04/16	--	46.5	44 - 46	Biosparge
	BSP-13	12	11/07/16	--	46.5	44 - 46	Biosparge
	BSP-14	12	11/07/16	--	46.5	44 - 46	Biosparge
	GMW-58		08/14/98	75.48	55	20 - 55	GWE
	GW-15		04/26/07	74.94	60.5	20.5 - 60.6	GWE
	GW-16		07/07/09	76.33	63	20.5 - 60.5	GWE
RW-1	13	06/21/17	-- / --	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge	

TABLE 1
Remediation Well Construction Details
DFSP, Norwalk
15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function	
North-East	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	--	--	--	50	48 - 50	Biosparge
	SP-21b	3	--	--	--	50	48 - 50	Biosparge
	VEW-32			04/11/07	--	25	10 - 25	SVE
	VEW-33			04/11/07	--	25	10 - 25	SVE
	VEW-34			04/11/07	--	25	10 - 25	SVE
	VEW-35			04/10/07	--	25	10 - 25	SVE
	VEW-36			04/10/07	--	25	10 - 25	SVE
	VEW-37			40/10/07	--	25	10 - 25	SVE
	TFR-36	10		11/30/17	--	40	20 - 40	TFE, SVE
	TFR-37	10		11/28/17	--	40	20 - 40	TFE, SVE
	TFR-38	10		11/28/17	--	40	20 - 40	TFE, SVE
	TFB-36	10		11/20/17	--	46	43 - 45	Biosparge
	TFB-37	10		11/21/17	--	46	43 - 45	Biosparge
TFB-38	10		11/20/17	--	46	43 - 45	Biosparge	
Southern 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		

TABLE 1
Remediation Well Construction Details
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Well	Notes	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Southern Former Truck Fueling Area and Adjacent Water Tank Area	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		--	75.64	--	--	SVE
	VW-09		--	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
 GWE = Groundwater extraction
 SVE = Soil vapor extraction
 TFE = Total fluids extraction
 -- = 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 October 11, 2017 *Addendum to Revised Remedial Action Plan*.
- 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*.

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

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
1/1/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/2/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/3/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/4/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/5/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/6/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/7/18	Off line		1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/8/18	Technician	1,2	1,310	3,663	88,317	217,779	11,423,059	4,784,010	77,713,213	0	--	9,945
1/9/18	*		1,310	5,205	91,214	220,723	11,428,899	4,785,552	77,720,561	7,348	--	9,945
1/10/18	*		1,310	6,747	94,111	223,666	11,434,740	4,787,094	77,727,909	7,348	--	9,945
1/11/18	Technician	3	1,310	8,113	96,676	226,273	11,439,911	4,788,460	77,734,415	6,506	73	9,945
1/12/18	*		1,310	8,401	99,427	229,261	11,445,651	4,788,748	77,738,817	4,402	--	9,945
1/13/18	*		1,310	8,690	102,179	232,249	11,451,391	4,789,037	77,743,220	4,402	--	9,945
1/14/18	*		1,310	8,979	104,931	235,237	11,457,131	4,789,326	77,747,622	4,402	--	9,945
1/15/18	Technician	4	1,310	9,268	107,683	238,225	11,462,871	4,789,615	77,752,024	4,402	--	9,945
1/16/18	*		1,310	9,557	110,435	241,213	11,468,611	4,789,904	77,756,426	4,402	--	9,945
1/17/18	Technician	5	1,310	9,851	113,235	244,253	11,474,451	4,790,198	77,760,905	4,479	--	9,945
1/18/18	*		6,657	11,742	116,892	248,211	11,482,066	4,797,436	77,775,526	14,621	--	9,945
1/19/18	*		12,005	13,633	120,549	252,168	11,489,680	4,804,674	77,790,147	14,621	--	9,945
1/20/18	*		17,352	15,523	124,206	256,126	11,497,295	4,811,913	77,804,768	14,621	--	9,945
1/21/18	*		22,699	17,414	127,863	260,084	11,504,910	4,819,151	77,819,389	14,621	--	9,945
1/22/18	*		28,047	19,305	131,520	264,042	11,512,525	4,826,389	77,834,010	14,621	--	9,945
1/23/18	Technician	6	32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	11,930	--	9,945
1/24/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/25/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/26/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/27/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/28/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/29/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/30/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
1/31/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	January	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	132,727	132,727	--	--	--	132,727	77,845,940

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	January	Quarter 1 to Date	April 1996 to Date
Mass	0.08	0.08	9,945.4

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

Legend / Notes:

- 1 = GWETS restarted (off-line since 12/28/17) following confirmation of compliance with permit discharge limit from late December 2017 sampling event.
- 2 = Pump in well GW-2 off-line since 12/11/17 pending replacement.
- 3 = Collected monthly influent, intermediate, and effluent samples for laboratory analysis.
- 4 = Collected additional monthly effluent sample for laboratory analysis as part of required accelerated permit compliance monitoring.
- 5 = Pump in well GW-2 brought back online following completion of replacement work.
- 6 = GWETS manually shutdown to conduct system/compound modification and upgrade work.

GWETS = Groundwater extraction and treatment system
 µg/L - Micrograms per liter

lb = Pounds
 DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 1/11/18 (laboratory report attached).
 -- = Not applicable

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

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

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

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
2/1/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/2/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/3/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/4/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/5/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/6/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/7/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/8/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/9/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/10/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/11/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/12/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/13/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/14/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/15/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/16/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/17/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/18/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/19/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/20/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/21/18	Off line		32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/22/18	Technician	1	32,410	20,848	134,504	267,271	11,518,738	4,832,295	77,845,940	0	--	9,945
2/23/18	*		35,685	22,264	137,129	270,103	11,524,195	4,836,986	77,855,935	9,995	--	9,945
2/24/18	*		38,960	23,680	139,753	272,935	11,529,651	4,841,678	77,865,930	9,995	--	9,945
2/25/18	*		42,236	25,097	142,378	275,767	11,535,108	4,846,369	77,875,925	9,995	--	9,945
2/26/18	Technician	2,3,4	44,931	26,262	144,538	278,097	11,539,598	4,850,230	77,884,150	8,225	130	9,945
2/27/18	*		47,521	27,922	147,097	280,723	11,544,783	4,854,480	77,893,845	9,695	--	9,945
2/28/18	Technician	5,6	49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	9,190	--	9,945

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	February	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	57,095	189,822	--	--	--	189,822	77,903,035

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	February	Quarter 1 to Date	April 1996 to Date
Mass	0.05	0.13	9,945.4

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

Legend / Notes:

- 1 = GWETS restarted (off-line since 1/23/18) following completion of system/compound modification and upgrade work.
- 2 = Collected monthly process and intermediate samples for laboratory analysis.
- 3 = Collected quarterly effluent samples for laboratory analysis.
- 4 = Measured residual chlorine in the field using HACH Test Kit Model CN-70.
- 5 = Collected another monthly effluent sample for laboratory analysis as part of required accelerated permit compliance monitoring.
- 6 = GWETS manually shutdown upon departure as a precautionary measure pending confirmation of compliance with all discharge limits from the February 2018 sampling events.

GWETS = Groundwater extraction and treatment system
 µg/L - Micrograms per liter

lb = Pounds
 DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit is used) from sample collected on: 2/26/18 (laboratory report attached).

-- = Not applicable

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

TABLE 2C
Groundwater Extraction and Treatment System Operations Summary - March

DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	GW-2 Totalizer Reading (gallons)	GW-13 Totalizer Reading (gallons)	GW-15 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from North-East Area (gallons)	Groundwater Extracted from North-West Area (gallons)	NPDES Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated Per Day * (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
3/1/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/2/18	Off line	1	49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/3/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/4/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/5/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/6/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/7/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/8/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/9/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/10/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/11/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/12/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/13/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/14/18	Off line		49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	0	--	9,945
3/15/18	Technician	2	49,976	29,495	149,522	283,212	11,549,697	4,858,508	77,903,035	1,736	--	9,945
3/16/18	Technician	3	51,664	30,306	150,748	284,696	11,552,407	4,861,007	77,903,035	3,473	--	9,945
3/17/18	Off line		51,664	30,306	150,748	284,696	11,552,407	4,861,007	77,903,035	0	--	9,945
3/18/18	Off line		51,664	30,306	150,748	284,696	11,552,407	4,861,007	77,903,035	0	--	9,945
3/19/18	Technician	4	51,664	30,306	150,748	284,696	11,552,407	4,861,007	77,903,035	4,185	--	9,945
3/20/18	Technician	5	54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	2,092	ND <60	9,945
3/21/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/22/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/23/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/24/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/25/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/26/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/27/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/28/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/29/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/30/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945
3/31/18	Off line		54,181	31,231	152,043	286,236	11,555,242	4,864,449	77,903,035	0	--	9,945

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	March *	Quarter 1, 2018	Quarter 2, 2018	Quarter 3, 2018	Quarter 4, 2018	2018 to Date	April 1996 to Date
Volume	0	189,822	--	--	--	189,822	77,903,035

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	March	Quarter 1 to Date	April 1996 to Date
Mass	<0.01	0.13	9,945.4

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

Legend / Notes:

- 1 = LARWQCB notified following laboratory confirmation that insufficient test species survival was achieved from the February 2018 acute toxicity analytical data.
- 2 = Pumps turned back on following deployment of a temporary treated groundwater storage tank and installation of a recirculation loop to allow for more thorough system flushing.
- 3 = Pumps manually shutdown with all stored water being recirculated over the weekend to continue with flushing internally prior to planned monthly sampling next week.
- 4 = Internal recirculation stopped and pumps turned back on to resume flushing efforts prior to sampling the next day.
- 5 = Collected regular monthly samples, as well as required accelerated testing samples, followed by manually shutting down pumps pending confirmation of compliance with all permit limits prior to resuming discharge.

GWETS = Groundwater extraction and treatment system
 ug/L = Micrograms per liter

lb = Pounds
 DRO = Diesel range organics

A = Hydrocarbon removal is calculated using analytical laboratory results for DRO (if not detected, half the detection limit is used) from sample collected on: 3/20/18 (laboratory report attached).

-- = Not applicable

* = No actual discharge occurred during March 2018 as all extracted and treated groundwater was stored in a temporary holding tank pending confirmation of compliance with all discharge limits from the monthly sampling event.

Groundwater extraction wells on line this month: GW-2, GW-13, GW-15, GW-16

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
01/01/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/02/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/03/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/04/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/05/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/06/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/07/18	Off line		48,560	NA	--	--	--	--	--	2,967,354
01/08/18	Technician	1,2	48,570	745	4	108	--	281	0.0	2,967,383
01/09/18	*		48,594	745	--	--	--	--	--	2,967,457
01/10/18	*		48,618	745	--	--	--	--	--	2,967,530
01/11/18	Technician	3,4	48,634	840	4	118	240	269	0.0	2,967,604
01/12/18	*		48,658	840	--	--	--	--	--	2,967,677
01/13/18	*		48,682	840	--	--	--	--	--	2,967,750
01/14/18	*		48,706	840	--	--	--	--	--	2,967,823
01/15/18	*		48,730	840	--	--	--	--	--	2,967,897
01/16/18	Technician		48,754	815	4	118	--	260	0.7	2,967,968
01/17/18	*		48,778	815	--	--	--	--	--	2,968,039
01/18/18	*		48,802	815	--	--	--	--	--	2,968,110
01/19/18	*		48,826	815	--	--	--	--	--	2,968,181
01/20/18	*		48,850	815	--	--	--	--	--	2,968,252
01/21/18	*		48,874	815	--	--	--	--	--	2,968,323
01/22/18	Technician		48,898	808	4	105	--	232	7.1	2,968,394
01/23/18	*		48,922	808	--	--	--	--	--	2,968,464
01/24/18	*		48,946	808	--	--	--	--	--	2,968,534
01/25/18	Technician	5	48,970	808	4	112	--	202	0.0	2,968,605
01/26/18	*		48,994	808	--	--	--	--	--	2,968,675
01/27/18	*		49,018	808	--	--	--	--	--	2,968,746
01/28/18	*		49,042	808	--	--	--	--	--	2,968,816
01/29/18	Technician		49,066	778	4	121	--	196	0.0	2,968,884
01/30/18	*		49,090	778	--	--	--	--	--	2,968,952
01/31/18	*		49,114	778	--	--	--	--	--	2,969,020

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	January	Quarter 1 to Date	April 1996 to Date
Mass	1,666	1,666	2,969,020

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

Legend / Notes:

- 1 = VES restarted following holidays and completion of carbon change out fieldwork.
- 2 = 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 newly installed thermal oxidizer (see Table 4A).
- 3 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 4 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
- 5 = VES temporarily off-line to conduct carbon change out fieldwork.

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

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

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

A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from sample collected on: 1/11/18 (laboratory report attached).

-- = Not applicable or not measured

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
02/01/18	Technician		49,138	801	4	123	--	195	0.0	2,969,090
02/02/18	*		49,162	801	--	--	--	--	--	2,969,160
02/03/18	*		49,186	801	--	--	--	--	--	2,969,229
02/04/18	*		49,210	801	--	--	--	--	--	2,969,299
02/05/18	Technician		49,234	785	4	118	--	162	0.0	2,969,368
02/06/18	*		49,258	785	--	--	--	--	--	2,969,436
02/07/18	*		49,282	785	--	--	--	--	--	2,969,505
02/08/18	*		49,306	785	--	--	--	--	--	2,969,573
02/09/18	*		49,330	785	--	--	--	--	--	2,969,642
02/10/18	*		49,354	785	--	--	--	--	--	2,969,710
02/11/18	*		49,378	785	--	--	--	--	--	2,969,778
02/12/18	Technician	1,2,3	49,265	775	4	108	86	148	1.7	2,969,803
02/13/18	*		49,289	775	--	--	--	--	--	2,969,827
02/14/18	*		49,313	775	--	--	--	--	--	2,969,852
02/15/18	*		49,337	775	--	--	--	--	--	2,969,876
02/16/18	Technician	4	49,352	790	4	115	--	155	5.8	2,969,892
02/17/18	Off line		49,352	NA	--	--	--	--	--	2,969,892
02/18/18	Off line		49,352	NA	--	--	--	--	--	2,969,892
02/19/18	Off line		49,352	NA	--	--	--	--	--	2,969,892
02/20/18	Off line		49,352	NA	--	--	--	--	--	2,969,892
02/21/18	Technician	5	49,365	810	4	112	--	170	0.0	2,969,905
02/22/18	Technician		49,389	798	4	111	--	196	0.0	2,969,930
02/23/18	*		49,413	798	--	--	--	--	--	2,969,955
02/24/18	*		49,437	798	--	--	--	--	--	2,969,980
02/25/18	*		49,461	798	--	--	--	--	--	2,970,006
02/26/18	Technician		49,485	772	4	110	--	194	0.0	2,970,030
02/27/18	*		49,509	772	--	--	--	--	--	2,970,054
02/28/18	*		49,533	772	--	--	--	--	--	2,970,078

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	February	Quarter 1 to Date	April 1996 to Date
Mass	1,059	2,725	2,970,078

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

Legend / Notes:

- 1 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 2 = Collected individual well vapor samples for laboratory analysis from wells HW-1, HW-5 and HW-7.
- 3 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.
- 4 = VES manually shut down in advance of carbon change out fieldwork.
- 5 = VES restarted following completion of carbon change out fieldwork.

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

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

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

- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used) from sample collected on: 2/12/18 (laboratory report attached).

-- = Not applicable or not measured

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Carbon Inlet Temperature (°F)	Laboratory Process Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
03/01/18	Technician		49,557	784	4	110	--	198	0	2,970,103
03/02/18	*		49,581	784	--	--	--	--	--	2,970,128
03/03/18	*		49,605	784	--	--	--	--	--	2,970,152
03/04/18	*		49,629	784	--	--	--	--	--	2,970,177
03/05/18	*		49,653	784	--	--	--	--	--	2,970,202
03/06/18	*		49,677	784	--	--	--	--	--	2,970,226
03/07/18	Technician	1	49,690	667	3	114	--	177	0.2	2,970,238
03/08/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/09/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/10/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/11/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/12/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/13/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/14/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/15/18	Off line		49,690	NA	--	--	--	--	--	2,970,238
03/16/18	Technician	2	49,707	791	4	112	--	186	0.3	2,970,255
03/17/18	*		49,731	791	--	--	--	--	--	2,970,280
03/18/18	Technician	3	49,748	800	4	108	--	180	1.4	2,970,298
03/19/18	Technician	2	49,763	804	4	118	--	168	2	2,970,314
03/20/18	*		49,787	804	--	--	--	--	--	2,970,339
03/21/18	Technician		49,811	807	4	122	--	206	6.7	2,970,364
03/22/18	Technician	4	49,823	792	4	120	--	188	9	2,970,377
03/23/18	Off line		49,823	NA	--	--	--	--	--	2,970,377
03/24/18	Off line		49,823	NA	--	--	--	--	--	2,970,377
03/25/18	Off line		49,823	NA	--	--	--	--	--	2,970,377
03/26/18	Technician	2	49,834	796	4	116	--	194	0	2,970,388
03/27/18	*		49,858	796	--	--	--	--	--	2,970,413
03/28/18	Technician	5,6,7	49,882	802	4	124	160	201	0.0	2,970,462
03/29/18	*		49,906	802	--	--	--	--	--	2,970,510
03/30/18	Technician		49,930	794	4	128	--	214	0.0	2,970,558
03/31/18	*		49,954	794	--	--	--	--	--	2,970,606

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	March	Quarter 1 to Date	April 1996 to Date
Mass	527	3,252	2,970,606

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

Legend / Notes :

- 1 = VES manually shut down for maintenance.
- 2 = VES restarted.
- 3 = VES automatically shutdown following technician site visit.
- 4 = VES manually shut down in advance of carbon change out fieldwork.
- 5 = Collected monthly influent, after GAC-1, after GAC-2, and effluent samples for laboratory analysis.
- 6 = Collected individual well vapor samples for laboratory analysis from wells HW-1, HW-5 and HW-7.
- 7 = Measured individual well vapor concentrations with a calibrated organic vapor analyzer.

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

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

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

A = Reading from chart recorder.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used) from samples collected on: 2/12/18 and 3/28/18 (laboratory reports attached).

-- = Not applicable or not measured

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Oxidizer Inlet Temperature (°F)	Laboratory Process GRO Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
01/01/18	NA		NA	NA	--	--	--	--	--	NA
01/02/18	NA		NA	NA	--	--	--	--	--	NA
01/03/18	NA		NA	NA	--	--	--	--	--	NA
01/04/18	NA		NA	NA	--	--	--	--	--	NA
01/05/18	NA		NA	NA	--	--	--	--	--	NA
01/06/18	NA		NA	NA	--	--	--	--	--	NA
01/07/18	NA		NA	NA	--	--	--	--	--	NA
01/08/18	Technician	1	1,893.7	193	8.5	1,448	--	569	26	4.9
01/09/18	*		1,917.7	193	--	1,448	--	--	--	22
01/10/18	*	2	1,934.0	193	--	1,448	--	--	--	33
01/11/18	Technician	3	1,942.2	193	9.0	1,438	240	1,004	19	39
01/12/18	off line	4	NA	0	--	--	--	--	--	NA
01/13/18	off line	5	NA	0	--	--	--	--	--	NA
01/14/18	off line	5	NA	0	--	--	--	--	--	NA
01/15/18	off line	4	NA	0	--	--	--	--	--	NA
01/16/18	Technician	6,7	1,946.7	173	10.0	1,453	--	781	22	42
01/17/18	*		1965.7	173	--	1,453	--	--	--	54
01/18/18	*		1984.7	173	--	1,453	--	--	--	66
01/19/18	*		2002.7	173	--	1,453	--	--	--	77
01/20/18	off line	5	NA	0	--	--	--	--	--	NA
01/21/18	off line	5	NA	0	--	--	--	--	--	NA
01/22/18	Technician	6,7	2,020.8	173	9.0	1,446	--	643	25	88
01/23/18	*		2028.0	173	--	1,446	--	--	--	93
01/24/18	*		2029.8	173	--	1,446	--	--	--	94
01/25/18	*		2031.6	173	--	1,446	--	--	--	95
01/26/18	*		2033.4	173	--	1,446	--	--	--	96
01/27/18	off line	5	NA	0	--	--	--	--	--	NA
01/28/18	off line	5	NA	0	--	--	--	--	--	NA
01/29/18	Technician	6,7	2,035.2	115	11.0	1,450	--	564	57	99
01/30/18	off line	4	NA	0	--	--	--	--	--	NA
01/31/18	off line	4	NA	0	--	--	--	--	--	NA

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	January	Quarter 1 to Date	January 2018 to Date
Mass	99.4	99.4	99.4

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

Legend / Notes:

- 1 = Thermal oxidizer started operation the first time on 1/8/2018.
- 2 = Noise complaint from the neighbor received; begin operation only during normal business hours.
- 3 = Collected monthly influent and effluent samples for laboratory analysis.
- 4 = Thermal oxidizer manually shut down for noise abatement construction.
- 5 = Thermal oxidizer manually shut down for weekend.
- 6 = Thermal oxidizer restarted.
- 7 = Thermal oxidizer operated only during normal business hours.

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
 GRO = Gasoline range organics in vapor

A = Reading measured using Dwyer DS-300 flow sensor.
 B = Concentrations obtained with a calibrated organic vapor analyzer.
 C = Concentrations correlated to laboratory data and expressed as hexane.
 D = Hydrocarbon removal is calculated using analytical laboratory result for GRO (if not detected, half the detection limit is used) from sample collected on: 1/11/18 (laboratory report attached).

System operating under SCAQMD Various Locations Permit #F97121
 Vapor extraction wells on line this month: VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18, and RW-26.

NA = Not available
 -- = Not applicable or not measured

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process ^A Flow (scfm)	VES Manifold Vacuum (in. Hg)	Oxidizer Inlet Temperature (°F)	Laboratory Process GRO Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
02/01/18	off line	1	NA	0	--	--	--	--	--	NA
02/02/18	off line	1	NA	0	--	--	--	--	--	NA
02/03/18	off line	1	NA	0	--	--	--	--	--	NA
02/04/18	off line	1	NA	0	--	--	--	--	--	NA
02/05/18	Technician	2	2,046.7	125	10	1,441	--	1,716	23	105
02/06/18	*	3	2,054.2	125	--	1,441	--	--	--	108
02/07/18	*		2,059.6	125	--	1,441	--	--	--	110
02/08/18	*		2,064.9	125	--	1,441	--	--	--	113
02/09/18	*		2,070.3	125	--	1,441	--	--	--	115
02/10/18	off line	4	NA	0	--	--	--	--	--	NA
02/11/18	off line	4	NA	0	--	--	--	--	--	NA
02/12/18	Technician	5,3	2,075.6	285	4	1,445	--	383	27	121
02/13/18	*		2,082.0	285	--	1,445	--	--	--	127
02/14/18	*		2,088.4	285	--	1,445	--	--	--	134
02/15/18	*		2,094.8	285	--	1,445	--	--	--	141
02/16/18	*		2,101.2	285	--	1,445	--	--	--	147
02/17/18	off line	4	NA	0	--	--	--	--	--	NA
02/18/18	off line	4	NA	0	--	--	--	--	--	NA
02/19/18	off line	6	NA	0	--	--	--	--	--	NA
02/20/18	*	5,3	2,107.6	285	--	1,445	--	--	--	154
02/21/18	*		2,114.0	285	--	1,445	--	--	--	161
02/22/18	Technician		2,120.4	208	9	1,448	--	790	26	165
02/23/18	*		2,125.0	208	--	1,448	--	--	--	169
02/24/18	off line	4	NA	0	--	--	--	--	--	NA
02/25/18	off line	4	NA	0	--	--	--	--	--	NA
02/26/18	Technician	5,3	2,129.6	208	9	1,449	--	809	23	172
02/27/18	*		2,137.1	208	--	1,449	--	--	--	178
02/28/18	*		2,144.6	208	--	1,449	--	--	--	184

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	February	Quarter 1 to Date	January 2018 to Date
Mass	84.3	183.7	183.7

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

Legend / Notes:

- 1 = Thermal oxidizer manually shut down for noise abatement construction.
- 2 = Thermal oxidizer restarted and operated over night.
- 3 = Thermal oxidizer operated only during normal business hours.
- 4 = Thermal oxidizer manually shut down for weekend.
- 5 = Thermal oxidizer restarted.
- 6 = Thermal oxidizer manually shut down for the holiday.

System operating under SCAQMD Various Locations Permit #F97121
 Vapor extraction wells on line this month: VEW-38, VEW-40, RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-26.

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 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 results for GRO (if not detected, half the detection limit is used) from sample collected on: 1/11/18 (laboratory report attached).
 No samples were analyzed in February due to site condition and system operation status.

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

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. Hg)	Oxidizer Inlet Temperature (°F)	Laboratory Process GRO Concentration (ppmv)	Field Process Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
03/01/18	Technician		2,152.1	208	9	1,445	--	923	30	192
03/02/18	*		2,159.6	208	--	1,445	--	--	--	201
03/03/18	off line	1	NA	0	--	--	--	--	--	NA
03/04/18	off line	1	NA	0	--	--	--	--	--	NA
03/05/18	*	2,3	2,166.7	208	--	1,445	--	--	--	210
03/06/18	*		2,173.8	208	--	1,445	--	--	--	218
03/07/18	Technician	4	2,180.9	208	--	1,445	--	728	21	226
03/08/18	off line	5	NA	0	--	--	--	--	--	NA
03/09/18	off line	5	NA	0	--	--	--	--	--	NA
03/10/18	off line	1	NA	0	--	--	--	--	--	NA
03/11/18	off line	1	NA	0	--	--	--	--	--	NA
03/12/18	*	6	2,183.4	208	--	1,445	--	--	--	229
03/13/18	off line	7	NA	0	--	--	--	--	--	NA
03/14/18	Technician	2,8	2,192.6	205	6	1,445	370	1,136	16	240
03/15/18	*		2,199.4	205	--	1,445	--	--	--	247
03/16/18	*		2,206.2	205	--	1,445	--	--	--	255
03/17/18	off line	1	NA	0	--	--	--	--	--	NA
03/18/18	off line	1	NA	0	--	--	--	--	--	NA
03/19/18	Technician	2	2,213.0	139	11	1,505	--	1,581	30	261
03/20/18	*		2,223.6	139	--	1,505	--	--	--	269
03/21/18	Technician		2,234.2	139	--	1,704	--	1,260	32	277
03/22/18	*		2,238.4	139	--	1,704	--	--	--	280
03/23/18	*		2,242.6	139	--	1,704	--	--	--	284
03/24/18	off line	1	NA	0	--	--	--	--	--	NA
03/25/18	off line	1	NA	0	--	--	--	--	--	NA
03/26/18	*	2	2,246.9	139	--	1,704	--	--	--	287
03/27/18	*		2,251.2	139	--	1,704	--	--	--	290
03/28/18	Technician		2,255.4	114	12	1,659	--	1,722	40	293
03/29/18	*		2,262.4	114	--	1,659	--	--	--	298
03/30/18	Technician		2,269.4	114	10	1,700	--	1,360	25	302
03/31/18	off line	1	NA	0	--	--	--	--	--	NA

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	March	Quarter 1 to Date	January 2018 to Date
Mass	118.5	302.2	302.2

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

Legend / Notes:

- 1 = Thermal oxidizer manually shut down for weekend.
- 2 = Thermal oxidizer restarted.
- 3 = Thermal oxidizer only operated during normal business hours.
- 4 = The system shut off automatically due to flame off alarm; no other alarms.
- 5 = Thermal oxidizer temporarily shut down for maintenance.
- 6 = Thermal oxidizer ran for about 2.5 hours after maintenance.
- 7 = Thermal oxidizer manually shut down for maintenance.
- 8 = Collected monthly influent and effluent samples for laboratory analysis.

System operating under SCAQMD Various Locations Permit #F97121

Vapor extraction wells on line this month: VEW-38, VEW-40, RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12, RW-13, RW-14, RW-15, RW-16, RW-17, RW-18, and RW-26.

Note: wells RW-2, RW-3, RW-6, RW-8, RW-12, RW-15, RW-16, and RW-17 were shut off on 3/14/18 due to low vapor concentrations.

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 results for GRO (if not detected, half the detection limit is used) from sample collected on: 3/14/18 (laboratory report attached).

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

TABLE 5A
Summary of LNAPL Removal in Well GMW-7 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks ^A (pounds)
03/28/18	--	34.38	--	0.0	2.3	0.3	26.5	181.5

Cumulative for the Reporting Period:	0.0	2.3	0.3	0.3	2.2
Cumulative Beginning December 2014 ^A:	8.0	126.8	18.5	26.5	181.5

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock (approximately 18" long with 3" diameter)

-- = 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 5B
Summary of LNAPL Removal in Well GMW-18 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	33.28	34.53	1.25	1.0	No Sock in Well	No Sock in Well	25.9	177.4
01/17/18	33.66	35.66	2.00	1.5	No Sock in Well	No Sock in Well	27.4	187.6
01/25/18	33.50	34.38	0.88	0.8	No Sock in Well	No Sock in Well	28.2	192.8
01/31/18	33.61	34.62	1.01	0.8	No Sock in Well	No Sock in Well	28.9	197.9
02/13/18	33.32	34.38	1.06	0.8	No Sock in Well	No Sock in Well	29.7	203.0
02/27/18	33.46	34.94	1.48	1.0	No Sock in Well	No Sock in Well	30.7	209.9
03/05/18	33.71	34.66	0.95	0.8	No Sock in Well	No Sock in Well	31.4	215.0
03/15/18	33.84	34.78	0.94	0.5	No Sock in Well	No Sock in Well	31.9	218.4
03/21/18	33.91	34.44	0.53	0.5	No Sock in Well	No Sock in Well	32.4	221.8
Cumulative for the Reporting Period:				7.5	0.0	0.0	7.5	51.3
Cumulative Beginning March 2017 ^A:				21.4	75.8	11.1	32.4	221.8

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.

TABLE 5C
Summary of LNAPL Removal in Well GMW-62 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	--	34.49	--	0.0	1.8	0.3	136.1	931.4
01/17/18	--	34.88	--	0.0	1.5	0.2	136.3	932.9
03/28/18	35.07	35.09	0.02	0.0	3.3	0.5	136.8	936.2

Cumulative for the Reporting Period:	0.0	6.5	0.9	0.9	6.5
Cumulative Beginning January 2014 ^A:	112.0	169.8	24.5	136.8	936.2

Legend / Notes:

LNAPL = Light non-aqueous phase liquids

feet btc = Feet below top of casing

Sock = LNAPL absorbent sock

-- = Not applicable

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

TABLE 5D
Summary of LNAPL Removal in Well GMW-68 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	33.56	33.64	0.08	0.0	3.3	0.5	52.0	355.7
01/17/18	33.89	34.08	0.19	0.0	3.8	0.5	52.5	359.5
01/24/18	33.81	33.86	0.05	0.0	3.3	0.5	53.0	362.7
03/28/18	33.88	34.61	0.73	0.0	7.8	1.1	54.1	370.5

Cumulative for the Reporting Period:	0.0	18.0	2.6	2.6	18.0
Cumulative Beginning October 2016 ^A:	33.5	145.0	21.2	54.1	370.5

Legend / Notes:

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

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

TABLE 5E
Summary of LNAPL Removal in Well TF-15 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	34.16	34.19	0.03	0.0	3.0	0.4	60.4	413.4
01/17/18	34.87	35.68	0.81	0.3	7.3	1.1	61.7	422.4
01/25/18	33.62	35.35	1.73	1.8	No Sock in Well	NA	63.5	434.3
01/31/18	33.75	35.83	2.08	1.8	No Sock in Well	NA	65.2	446.3
02/13/18	33.49	34.94	1.45	1.8	No Sock in Well	NA	67.0	458.3
02/27/18	33.62	35.57	1.95	2.8	No Sock in Well	NA	69.7	477.1
03/05/18	33.81	36.06	2.25	2.5	No Sock in Well	NA	72.2	494.2
03/15/18	33.96	36.26	2.30	2.5	No Sock in Well	NA	74.7	511.3
03/21/18	34.07	35.69	1.62	1.5	No Sock in Well	NA	76.2	521.6
Cumulative for the Reporting Period:				14.8	10.3	1.5	16.2	111.2
Cumulative Beginning October 2016 ^A:				68.6	52.5	7.7	76.2	521.6

Legend / Notes:

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

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to recently completed excavaton project 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.

TABLE 5F
Summary of LNAPL Removal in Well TF-19 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
03/28/18	--	34.33	--	0.0	1.0	0.1	29.2	199.9
Cumulative for the Reporting Period:				0.0	1.0	0.1	0.1	1.0
Cumulative Beginning June 2015 ^A:				6.8	153.8	22.5	29.2	199.9

Legend / Notes:

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

A = Cumulative LNAPL removed since 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 5G
Summary of LNAPL Removal in Well TF-16 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	34.13	34.84	0.71	1.0	No Sock in Well	0.0	258.5	1,768.8
01/07/18	34.79	34.91	0.12	2.0	No Sock in Well	0.0	260.5	1,782.5
01/24/18	34.42	34.47	0.05	4.0	No Sock in Well	0.0	264.5	1,809.9
01/31/18	34.52	34.87	0.35	0.0	No Sock in Well	0.0	264.5	1,809.9
02/14/18	34.23	34.28	0.05	2.0	No Sock in Well	0.0	266.5	1,823.5
02/27/18	34.31	35.07	0.76	0.0	No Sock in Well	0.0	266.5	1,823.5
03/15/18	34.67	34.81	0.14	4.0	No Sock in Well	0.0	270.5	1,850.9
03/28/18	33.74	33.78	0.04	2.0	No Sock in Well	0.0	272.5	1,864.6
Cumulative for the Reporting Period:				15.0	0.0	0.0	15.0	102.6
Cumulative Beginning October 2016 ^A:				267.3	35.8	5.2	272.5	1,864.6

Legend / Notes:

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

A = Cumulative LNAPL removed since October 2016. No LNAPL removed previously during 2016 or throughout 2015 due to recently completed excavaton project 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).

TABLE 5H
Summary of LNAPL Removal in Well TF-18 - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	31.64	32.94	1.30	1.0	0	0.0	2,034.0	13,919.0
01/07/18	31.99	34.57	2.58	2.0	0	0.0	2,036.0	13,932.7
01/24/18	31.81	32.82	1.01	6.0	0	0.0	2,042.0	13,973.8
01/31/18	31.90	33.87	1.97	3.0	0	0.0	2,045.0	13,994.3
02/14/18	31.71	32.68	0.97	8.0	0	0.0	2,053.0	14,049.0
02/27/18	31.84	33.37	1.53	8.0	0	0.0	2,061.0	14,103.8
03/15/18	32.02	34.33	2.31	8.0	0	0.0	2,069.0	14,158.5
03/28/18	32.07	34.51	2.44	7.0	0	0.0	2,076.0	14,206.4
03/31/18	--	--	--	3.0	0	0.0	2,079.0	14,227.0

Cumulative for the Reporting Period:	46.0	0.0	0.0	46.0	314.8
Cumulative Beginning January 2014 - July 2016 ^A:	266.1	307.3	44.9	311.0	2,128.1
Cumulative Beginning August 2016 - March 2018 ^B:	1,768.0	0.0	0.0	1,768.0	12,098.8
Cumulative Beginning January 2014 ^A:	2,034.1	307.3	44.9	2,079.0	14,227.0

Legend / Notes:

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

A = Cumulative LNAPL removed 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 (system includes a total of four skimmers with skimming initially isolated to well TF-18).

* = 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 which occurred after approximately six months (i.e., pumping resumed on August 10, 2017).

TABLE 5I
Summary of LNAPL Removal in Well RTF-18-N - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	31.96	32.04	0.08	0.0	0	0.0	320.0	2,189.8
01/07/18	32.41	33.29	0.88	0.0	0	0.0	320.0	2,189.8
01/24/18	31.97	32.86	0.89	3.0	0	0.0	323.0	2,210.4
01/31/18	32.12	33.32	1.20	2.0	0	0.0	325.0	2,224.0
02/14/18	32.01	32.03	0.02	4.0	0	0.0	329.0	2,251.4
02/27/18	32.17	32.56	0.39	0.0	0	0.0	329.0	2,251.4
03/15/18	32.26	33.78	1.52	0.0	0	0.0	329.0	2,251.4
03/28/18	32.36	33.73	1.37	4.0	0	0.0	333.0	2,278.8
03/31/18	--	--	--	2.0	0	0.0	335.0	2,292.5

Cumulative for the Reporting Period:	15.0	0.0	0.0	15.0	102.6
Cumulative Beginning April 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - March 2018 ^B:	287.5	0.0	0.0	287.5	1,967.4
Cumulative Beginning April 2016 ^A:	335.0	0.0	0.0	335.0	2,292.5

Legend / Notes:

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

A = Cumulative LNAPL removed since 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 (system includes a total of four skimmers with 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 to allow for LNAPL recovery with pumping again stopped on November 30, 2017 due to insufficient yield (skimmer operations subsequently resumed again on January 7, 2018 and continued through the end of the current reporting period).

TABLE 5J
Summary of LNAPL Removal in Well RTF-18-E - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	32.21	32.83	0.62	1.0	0	0.0	620.5	4,246.2
01/07/18	32.92	33.01	0.09	1.0	0	0.0	621.5	4,253.1
01/24/18	32.43	32.65	0.22	2.0	0	0.0	623.5	4,266.8
01/31/18	32.70	32.86	0.16	1.0	0	0.0	624.5	4,273.6
02/14/18	32.25	32.81	0.56	2.0	0	0.0	626.5	4,287.3
02/27/18	32.57	32.82	0.25	2.0	0	0.0	628.5	4,301.0
03/15/18	32.92	32.93	0.01	2.0	0	0.0	630.5	4,314.7
03/28/18	32.99	33.12	0.13	0.0	0	0.0	630.5	4,314.7

Cumulative for the Reporting Period:	11.0	0.0	0.0	11.0	75.3
Cumulative Beginning May 2016 - July 2016 ^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - March 2018 ^B:	583.0	0.0	0.0	583.0	3,989.6
Cumulative Beginning May 2016 ^A:	630.5	0.0	0.0	630.5	4,314.7

Legend / Notes:

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

A = Cumulative LNAPL removed since 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 (system includes a total of four skimmers with 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 sufficient for effective removal via skimming until March 15, 2018 when the pump was again shutdown due to insufficient yield.

TABLE 5K
Summary of LNAPL Removal in Well RTF-18-W - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	32.14	33.40	1.26	1.0	0	0.0	105.8	723.7
01/07/18	32.61	34.83	2.22	2.0	0	0.0	107.8	737.4
01/24/18	32.30	33.29	0.99	6.0	0	0.0	113.8	778.4
01/31/18	32.43	34.32	1.89	3.0	0	0.0	116.8	798.9
02/14/18	32.22	33.10	0.88	5.0	0	0.0	121.8	833.2
02/27/18	32.35	33.85	1.50	4.0	0	0.0	125.8	860.5
03/15/18	32.79	33.79	1.00	6.0	0	0.0	131.8	901.6
03/28/18	32.86	33.87	1.01	4.0	0	0.0	135.8	929.0
03/31/18	--	--	--	1.0	0	0.0	136.8	935.8

Cumulative for the Reporting Period:	32.0	0.0	0.0	32.0	219.0
Cumulative Beginning April 2016 - July 2016 ^A:	38.8	0.0	0.0	38.8	265.2
Cumulative Beginning August 2016 - March 2018 ^B:	98.0	0.0	0.0	98.0	670.6
Cumulative Beginning April 2016 ^A:	136.8	0.0	0.0	136.8	935.8

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 (system includes a total of four skimmers with 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 continues to be sufficient for effective removal via skimming.

TABLE 5L
Summary of LNAPL Removal in Well RTF-18-NW - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
01/03/18	31.76	32.99	1.23	3.0	0	0.0	2,648.5	18,124.3
01/07/18	32.17	34.54	2.37	3.0	0	0.0	2,651.5	18,144.8
01/24/18	31.88	33.03	1.15	12.0	0	0.0	2,663.5	18,226.9
01/31/18	32.04	33.89	1.85	6.0	0	0.0	2,669.5	18,268.0
02/14/18	31.82	32.77	0.95	11.0	0	0.0	2,680.5	18,343.3
02/27/18	31.96	33.47	1.51	9.0	0	0.0	2,689.5	18,404.9
03/15/18	32.14	34.41	2.27	13.0	0	0.0	2,702.5	18,493.8
03/28/18	32.22	34.04	1.82	9.0	0	0.0	2,711.5	18,555.4
03/31/18	--	--	--	2.0	0	0.0	2,713.5	18,569.1

Cumulative for the Reporting Period:	68.0	0.0	0.0	68.0	465.3
Cumulative Beginning May 2016 - July 2016 ^A:	76.5	0.0	0.0	76.5	523.5
Cumulative Beginning August 2016 - March 2018 ^B:	2,637.0	0.0	0.0	2,637.0	18,045.6
Cumulative Beginning May 2016 ^A:	2,713.5	0.0	0.0	2,713.5	18,569.1

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (system includes a total of four skimmers with 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 continues to be sufficient for effective removal via skimming.

TABLE 5M
Summary of LNAPL Removal in Well RTF-18-NNW - 1st Quarter 2018
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
--	No Pumping/Skimming from Product Recovery System Well During 1st Quarter 2018							

Cumulative for the Reporting Period:	0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2016 - July 2016 ^A:	54.5	0.0	0.0	54.5	373.0
Cumulative Beginning August 2016 - March 2018 ^B:	48.5	0.0	0.0	48.5	331.9
Cumulative Beginning April 2016 ^A:	103.0	0.0	0.0	103.0	704.9

Legend / Notes:

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

A = Cumulative LNAPL removed since 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 (system includes a total of four skimmers with 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 measureable product from early March 2017 through mid-September 2017, and less than 0.3 foot at the end of the prior reporting period. Note that product thicknesses have since increased further during the current reporting period with skimming scheduled to resume from well RTF-18-NNW during the next reporting period.

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

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

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
06/15/12		--	--	--	--	39	13	17	88	26	<10	1.3	0.52	<2.0	<2.0
08/31/12		--	--	820	940	--	--	--	--	--	--	--	--	--	--
09/27/12		--	--	5,300	3,800	--	--	--	--	--	--	--	--	--	--
10/23/12		--	--	--	--	67	60	110	460	140	<10	<0.50	<2.0	<2.0	<2.0
01/31/13		--	--	3,600	--	--	--	--	--	--	--	--	--	--	--
05/01/13		--	--	6,300	5,500	20	4.7	8.0	41	14	4.8	0.56	<2.0	<2.0	<2.0
07/12/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
08/20/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
12/19/13		--	--	<100	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<2.0	<2.0	<2.0
02/07/14		--	--	1,500	2,300	--	--	--	--	--	--	--	--	--	--
03/21/14		--	--	--	--	61	5.1	23	150	45	<10	0.87	<2.0	<2.0	<2.0
05/29/14	1	--	8015M & 8260B	--	--	29	1.0	30	180	45	<10	1.0	<2.0	<2.0	<2.0
07/09/14	2	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	720	1,800	82	3.8	27	110	31	<7.0	<0.40	<0.50	<0.40	<0.30
08/13/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	1,500	57	3.7	30	130	36	<7.0	0.77	<0.50	<0.40	<0.30
09/17/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	800	3,500	23	0.73	20	170	40	<7.0	0.83	<0.50	<0.40	<0.30
10/20/14		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	560	3,600	31	2.2	40	240	54	<7.0	0.6	<0.50	<0.40	<0.30
11/17/14	3,4	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	260	1,400	21	0.71	10	62	18	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/14	4	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	190	880	23	0.66	8.8	48	14	<7.0	<0.40	<0.50	<0.40	<0.30
01/14/15	1,2	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	4,600	3,800	150	2.8	29	130	37	<7.0	<0.40	<0.50	<0.40	<0.30
02/20/15	2,4	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,500	8,100	230	9.8	220	880	220	<7.0	0.45	<0.50	<0.40	<0.30
03/27/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	620	980	9.9	<0.30	2.7	18	5.9	<7.0	1.0	<0.50	<0.40	<0.30
05/11/15	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	330	16	5.2	5.9	37	14	<7.0	0.58 J	<0.50	<0.40	<0.30
06/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	340	20	6.6	12	22	25	<7.0	0.52 J	<0.50	<0.40	<0.30
07/09/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	180	610	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.62 J	<0.50	<0.40	<0.30
08/17/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	430	<40	<0.20	<0.30	<0.20	0.95 J	<0.30	<7.0	0.71 J	<0.50	<0.40	<0.30
09/03/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	86 J	570	5.9	0.37 J	3.7	10	14	<7.0	0.45 J	<0.50	<0.40	<0.30
10/05/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	500	7.3	<0.30	8.7	35	15	<7.0	0.73 J	<0.50	<0.40	<0.30
11/02/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	420	3,400	5.1	<0.30	17	130	22	<7.0	0.85 J	<0.50	<0.40	<0.30
12/07/15		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	710	3,800	0.70	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
01/12/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,000	510	14	<0.30	3.6	25	7.0	<7.0	<0.40	<0.50	<0.40	<0.30
02/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	180	13	<0.30	0.53	2.7	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
03/14/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	270	1,100	0.91	<0.30	<0.20	1.6	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
04/04/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	76 J	100	0.99	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/04/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	470	<0.20	<0.30	<0.20	1.3	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	280	75 J	4.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.43 J	<0.50	<0.40	<0.30
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.8	<0.30	<0.20	<0.40	<0.30	8.8 J	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	73 J	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
02/26/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	5.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.47 J	<0.50	<0.40	<0.30

Legend / Notes on Next Page.

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

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

Legend / Notes:

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

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

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

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

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

DIPE = Diisopropyl ether
 -- = Not available or not analyzed

<1 = Not detected at or above the Method Reporting Limit (MRL) shown. Beginning 07/09/14, not detected at or above the Method Detection Limit (MDL) shown.
 J = Estimated value. Analyte detected at a level less than the MRL and greater than or equal to the MDL.

1 = GWETS manually shut down.

2 = GWETS restarted on 07/02/14, 01/13/15 and 02/25/15.

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 04/13/15, 05/06/15, 04/04/16, 09/26/16, 11/07/16, 03/08/17, 04/17/17 and 07/03/17, and restarted on 04/27/15, 05/08/15, 04/28/16, 10/12/16, 11/23/16, 03/15/17, 04/25/17 and 07/17/17, respectively.

6 = GWETS restarted following an automatic shut down on 02/04/17.

7 = GWETS manually shut down on 11/20/17 and largely remained off-line through March 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 various system/compound modification and upgrade activities.

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

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

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

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
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		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		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

Legend / Notes:

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

Influent vapor sample inadvertently not collected during August 2016.

VES = Soil vapor extraction system

GRO = Gasoline range organics

MTBE = Methyl tertiary-butyl ether

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

ppmv = Parts per million by volume

µg/L = Micrograms per liter

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

-- = Not available or not analyzed

1 = 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 newly installed thermal oxidizer (see Table 8 for details).

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		GRO as Hexane		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
01/11/18	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	8015M & 8260M	1,942	370	1500	380	1,500	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/14/18	2,4,5,6,7	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	1,500	380	1,500	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

Legend / Notes:

VES = Soil vapor extraction system

GRO = Gasoline range organics

MTBE = Methyl tertiary-butyl ether

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

ppmv = Parts per million by volume

µg/L = Micrograms per liter

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

-- = Not available or not analyzed

1 = 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 = Closed vapor extraction wells RW-2 through RW-4, RW-6 through RW-8, RW-11, RW-12, and RW-15 through RW-17 on 03/14/18 based on field PID readings (see Table 9B for details).

7 = Additional noise abatement measures planned for implementation during the next reporting period to allow for full-time operations.

TABLE 9A
Historical Summary of Field Vapor Sampling Readings - Former AST Area Horizontal Wells and Select Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells												
			HW-1	HW-3 **	HW-5	HW-7 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	69	20	140	4,176	154	10	4.2	5.5	6.4	20	--	--	--
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	74	21	4,000	15,000	134	5.6	3.3	2.1	4.1	18	--	--	--
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	0.8	4.5	3.6	0.1	6.3	0.4	0.4	0.2	0	0	--	--	--
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	2.1	0	2.5	146.0	174	0.2	0	--	--	--	--	--	--
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	3.3	20.0	2.9	2	191	22	8.0	28	9.1	151	--	--	--
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	0	0	0	0.2	62	37	2.0	15	24	11	--	--	--
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	24	2	62	382.0	2.5	0.1	0.3	4.8	20	1.0	--	--	--
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	400	34	270	370	25	4.1	0	0	0	0	--	--	--
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	825	160	835	800	171	5.7	3.0	0	0	0	--	--	--
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	800	315	600	580	195	35	25	0	0	0	--	--	--
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	680	297	545	585	273	223	87	0	0	0	--	--	--
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,900	125	533	1,233	--	--	--	--	--	--	--	--	--
04/27/15	4,6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,455	138	400	810	210	324	115	4.8	5.7	2.4	--	--	--
06/08/15	6,7	VEW-32, VEW-33, VEW-34	--	--	--	--	180	130	40	--	--	--	--	--	--
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	194	126	80	--	--	--	--	--	--
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	158	77	39	--	--	--	--	--	--
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	123	104	20	--	--	--	--	--	--
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	256	147	17	--	--	--	--	--	--
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	1,947	28	676	732	456	334	63	16	2.2	3.9	--	--	--
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,792	--	1,283	1,526	530	329	--	--	--	--	--	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	--	839	1,811	395	162	--	--	--	--	--	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	--	756	1,142	266	184	--	--	--	--	--	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	--	462	807	343	258	--	--	--	--	--	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	--	372	500	401	184	--	--	--	--	--	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	--	590	760	327	246	88	22	12	14	--	--	--

TABLE 9A
Historical Summary of Field Vapor Sampling Readings - Former AST Area Horizontal Wells and Select Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells												
			HW-1	HW-3 **	HW-5	HW-7 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	640	--	415	390	220	260	72	34	22	17	--	--	--
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	--	300	240	160	220	55	42	28	11	--	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	120	240	47	31	32	15	--	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	60	380	29	22	18	12	--	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	90	340	36	18	25	19	--	--	--
06/17/16	6	HW-1, HW-3, HW-5	740	--	470	330	--	--	--	--	--	--	--	--	--
07/06/16	6,10	HW-1, HW-3, HW-5	480	--	340	220	--	--	--	--	--	--	--	--	--
08/05/16	6	HW-1, HW-3, HW-5	240	4	190	230.0	20	140	11	9.0	34	8.3	--	--	--
09/01/16	6,10	HW-1, HW-3, HW-5	280	--	220	260	--	--	--	--	--	--	--	--	--
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	200	140	240	280	32	80	9.1	7.3	30	6.4	--	--	--
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	160	120	180	260	--	--	--	--	--	--	--	--	--
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	120	100	200	240	20	60	17	8.8	20	7.1	--	--	--
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	80	17	180	200	--	--	--	--	--	--	--	--	--
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	100	13	160	180	12	45	11	6.1	14	5.4	--	--	--
03/20/17	12	HW-1, HW-3, HW-5, HW-7	110	12	120	160	--	--	--	--	--	--	--	--	--
04/17/17		HW-1, HW-3, HW-5, HW-7	120	10	160	220	--	--	--	--	--	--	--	--	--
05/03/17		HW-1, HW-3, HW-5, HW-7	100	19	140	260	15	33	17	8.1	19	6.7	--	--	--
06/05/17		HW-1, HW-3, HW-5	107	15	82	211	10	14	8.0	7.1	12	11	--	--	--
07/19/17	13	HW-5, HW-7 and VEW-39	--	49	79	286	12	47	9.3	4.1	6.2	4.8	550	1,680	9,600
08/09/17	14	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	192	--	94	236	5.5	27	7.7	2.3	3.7	5.4	540	940	8,000
09/07/17	14	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	180	--	60	220	9.2	20	11	5.5	14	10	480	190	9,200
10/12/17	14	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	--	80	260	13	28	14	9.3	19	12	270	330	5,800
11/02/17	14	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	346	--	105	334	10	23	11	6.6	15	9.1	400	620	3,700
12/11/17	14	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	280	--	90	220	7.7	20	9.3	5.1	8.8	9.1	360	480	4,900
01/11/18		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		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1 through RW-18, and RW-26	60	--	75	290	--	--	--	--	--	--	--	--	--

TABLE 9A
Historical Summary of Field Vapor Sampling Readings - Former AST Area Horizontal Wells and Select Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells												
			HW-1	HW-3 **	HW-5	HW-7 **	VEW-32	VEW-33	VEW-34	VEW-35	VEW-36	VEW-37	VEW-38	VEW-39	VEW-40
			25	25	25	25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	10 - 25	20 - 30	20 - 30	20 - 30
03/14/18		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	7.2	2.4	8.1	7.3	0.4	4.3	420	54	4,200
03/28/18		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	--	--	--	--	--	--	--	--	--

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer -- = Not measured

Concentrations measured using calibrated field OVA.

1 = Initial readings on system 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 system in accordance with recent field OVA readings and/or lab data.

13 = 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.

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.

* = Carbon vapor extraction system only through 2017 and also includes thermal oxidizer vapor extraction system 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 Sampling Readings - Northeastern Area Vertical Wells
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																	
			RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8	RW-9	RW-10	RW-11	RW-12	RW-13	RW-14	RW-15	RW-16	RW-17	RW-18
			15 - 35	13 - 33	17 - 37	14 - 34	14 - 34	17 - 37	17 - 37	18.5 - 38.5	15 - 35	14 - 34	16 - 36	14 - 34	15 - 35	14 - 34	18 - 38	14 - 34	19 - 39	18 - 38
08/09/17	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	16	--	--	--	--	120	--	1,164	--	--	76	2,440	--	--	--	--	374
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	99	--	--	--	--	495	--	320	--	--	90	2,870	--	--	--	--	679
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	75	--	--	--	--	310	--	660	--	--	120	2,620	--	--	--	--	580
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	50	--	--	--	--	225	--	840	--	--	140	3,200	--	--	--	--	430
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	60	--	--	--	--	180	--	590	--	--	80	3,040	--	--	--	--	350
03/14/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	2,520	31	68	598	4,600	15	181	5.1	2,824	>10,000	420	5.5	2,000	1,235	12	40	28	937

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer

Concentrations measured using calibrated field OVA.

1 = Wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13 and RW-18 tied into system 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 = Wells RW-3 through RW-6, RW-8, RW-10, RW-11, and RW-14 through RW-17 tied into system during mid-February 2018 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

* = Carbon vapor extraction system only through 2017 and also includes thermal oxidizer vapor extraction system wells online after 2017.

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade											
			RW-20	RW-21	RW-22	RW-23	RW-24	RW-26	RW-28	RW-29	RW-30	RW-31	RW-32	RW-33
			13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33
08/09/17	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	129	160	1,775	787	1,525	4,340	8,420	620	6,550	7,165	820	1,230
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	58	110	1,379	141	1,423	3,290	8,080	1,123	8,240	3,400	715	836
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	165	1,800	340	1,200	3,880	9,190	818	5,800	5,200	955	900
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	170	140	1,410	250	1,770	2,900	6,400	909	7,330	4,300	1,060	620
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	190	120	1,660	230	1,605	3,400	7,170	764	6,400	3,900	700	510
03/14/18		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	280	80	840	320	950	1,800	3,100	660	2,900	1,730	800	180

Legend / Notes:

GRO = Gasoline range organics ppmv = Parts per million by volume OVA = Organic Vapor Analyzer
 Concentrations measured using calibrated field OVA.

1 = Wells 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*.

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.

* = Carbon vapor extraction system only through 2017 and also includes thermal oxidizer vapor extraction system 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)
RW-10	03/14/18	5	8015M & 8260M	>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	5		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	4		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	4		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	5		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	4		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-20	08/16/17	4		129	73	300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0
RW-21	08/09/17	4		160	95	390	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-22	08/16/17	4		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
RW-23	08/09/17	4		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	4		1,525	1,400	5,900	<0.16	<0.50	<0.13	<0.50	0.19	0.82	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			1,423	930	3,800	<0.16	<0.50	<0.13	<0.50	0.37	1.6	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-26	08/09/17	4		4,340	7,100	29,000	0.23	0.75	<0.13	<0.50	0.94	4.1	<0.12	<0.50	0.35	1.5	<0.55	<2.0
	09/07/17			3,290	3,200	13,000	<0.16	<0.50	<0.13	<0.50	0.88	3.8	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-28	08/09/17	4		8,420	7,600	31,000	2.4	7.6	<0.13	<0.50	9.4	41	0.28	1.2	3.7	16	<0.55	<2.0
	09/07/17			8,080	7,300	30,000	1.7	5.5	<0.13	<0.50	8.1	35	0.25	1.1	3.0	13	<0.55	<2.0
RW-29	08/09/17	4		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
RW-30	08/09/17	4	6,550	12,000	50,000	0.85	2.7	<0.13	<0.50	17	72	<0.12	<0.50	0.81	3.5	<0.55	<2.0	
	09/07/17		8,240	3,200	13,000	<0.16	<0.50	<0.13	<0.50	6.9	30	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-31	08/09/17	4	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	0.44	1.4	<0.13	<0.50	3.0	13	1.1	4.9	2.3	10	<0.55	<2.0	
RW-32	08/16/17	4	820	880	3,600	<0.16	<0.50	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.28	1.2	<0.55	<2.0	
	09/07/17		715	810	3,300	0.17	0.54	<0.13	<0.50	0.55	2.4	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-33	08/16/17	4	1,230	860	3,500	<0.16	<0.50	<0.13	<0.50	0.44	1.9	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		836	640	2,600	<0.16	<0.50	<0.13	<0.50	0.35	1.5	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RTF-18-NW	10/05/17	6	9,000	16,000	67,000	100	330	0.18	0.66	12	52	13	56	60	260	<0.55	<2.0	
	10/09/17	6	3,635	18,000	72,000	170	550	<1.3	<5.0	17	75	19	83	92	400	<5.5	<20	

Legend / Notes:

- GRO = Gasoline range organics
 OVA = Organic Vapor Analyzer (calibrated or correlated to Hexane)
 MTBE = Methyl tertiary-butyl ether
 ppmv = Parts per million by volume
 µg/L = Micrograms per liter
 <0.6 = Not detected at or above the method reporting limit (MRL) shown.
 -- = Not measured
 1 = Samples collected following system restart (off line since manual shut down on 05/29/14).
 2 = Field OVA reading from 01/09/17.
 3 = System tie in work to allow for vapor extraction completed during late June 2017 following installation per SGI's March 14, 2017 *Well Replacement Report and Work Plan*.
 4 = System tie in work to allow for vapor extraction completed during early August 2017 following installation per SGI's June 30, 2017 *Remediation Well Installation Update Report*.
 5 = 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*.
 6 = Well temporarily utilized as an extraction point as part of vacuum enhanced LNAPL recovery testing (results to be provided under separate cover).
 * = 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.

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



9765 Eton Avenue
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Tel: (818) 998-5547
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January 26, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332438 / 8A11023**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/11/18 16:14 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Surge Tank	8A11023-01	Water	5	01/11/18 11:37	01/11/18 16:14
After GAC-1	8A11023-02	Water	5	01/11/18 11:32	01/11/18 16:14
After GAC-2	8A11023-03	Water	5	01/11/18 11:28	01/11/18 16:14

Arsenic Total EPA 200.7

Surge Tank	8A11023-01	Water	5	01/11/18 11:37	01/11/18 16:14
After Zeolite Bed-1	8A11023-04	Water	5	01/11/18 11:23	01/11/18 16:14
After Zeolite Bed-2	8A11023-05	Water	5	01/11/18 11:22	01/11/18 16:14

Diesel Range Organics 8015M

Surge Tank	8A11023-01	Water	5	01/11/18 11:37	01/11/18 16:14
After GAC-1	8A11023-02	Water	5	01/11/18 11:32	01/11/18 16:14
After GAC-2	8A11023-03	Water	5	01/11/18 11:28	01/11/18 16:14

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18
Units: ug/L

Date Sampled:	01/11/18	01/11/18	01/11/18		
Date Prepared:	01/15/18	01/15/18	01/15/18		
Date Analyzed:	01/15/18	01/15/18	01/15/18		
AA ID No:	8A11023-01	8A11023-02	8A11023-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPH GASOLINE BTEX OXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	2.0	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	<0.40	<0.40	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	106%	107%	106%	70-140
Dibromofluoromethane	129%	125%	117%	70-140
Toluene-d8	99%	101%	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 GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18
Units: ug/L

Date Sampled:	01/11/18	01/11/18	01/11/18		
Date Prepared:	01/15/18	01/15/18	01/15/18		
Date Analyzed:	01/15/18	01/15/18	01/15/18		
AA ID No:	8A11023-01	8A11023-02	8A11023-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	73 J	<60	<60	60	100
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Surrogates

o-Terphenyl	87%	73%	79%	<u>%REC Limits</u>	50-150
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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 GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
8A11023-01	Surge Tank	01/11/18	01/16/18	01/17/18	1	0.021	mg/L	0.006	0.007
8A11023-04	After Zeolite Bed-1	01/11/18	01/16/18	01/17/18	1	0.020	mg/L	0.006	0.007
8A11023-05	After Zeolite Bed-2	01/11/18	01/16/18	01/17/18	1	0.020	mg/L	0.006	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8A1516 - EPA 5030B

Blank (B8A1516-BLK1)

Prepared & Analyzed: 01/15/18

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L
Benzene	<0.20	0.20	ug/L
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L
Ethylbenzene	<0.20	0.20	ug/L
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L
Gasoline Range Organics (GRO)	<40	40	ug/L
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L
Toluene	<0.30	0.30	ug/L
o-Xylene	<0.30	0.30	ug/L
m,p-Xylenes	<0.40	0.40	ug/L

Surrogate: 4-Bromofluorobenzene	53.4		ug/L	50	107	70-140
Surrogate: Dibromofluoromethane	61.5		ug/L	50	123	70-140
Surrogate: Toluene-d8	52.2		ug/L	50	104	70-140

LCS (B8A1516-BS1)

Prepared: 01/15/18 Analyzed: 01/16/18

tert-Amyl Methyl Ether (TAME)	19.3	0.30	ug/L	20	96.6	70-130
Benzene	20.1	0.20	ug/L	20	101	75-125
tert-Butyl alcohol (TBA)	91.3	7.0	ug/L	100	91.3	70-130
Diisopropyl ether (DIPE)	19.3	0.50	ug/L	20	96.7	70-130
Ethylbenzene	22.4	0.20	ug/L	20	112	75-125
Ethyl-tert-Butyl Ether (ETBE)	20.1	0.40	ug/L	20	100	70-130
Gasoline Range Organics (GRO)	441	40	ug/L	500	88.2	70-130
Methyl-tert-Butyl Ether (MTBE)	37.7	0.40	ug/L	40	94.2	70-135
Toluene	21.6	0.30	ug/L	20	108	75-125
o-Xylene	21.7	0.30	ug/L	20	108	75-125
m,p-Xylenes	44.9	0.40	ug/L	40	112	70-130

Surrogate: 4-Bromofluorobenzene	51.9		ug/L	50	104	70-140
Surrogate: Dibromofluoromethane	50.9		ug/L	50	102	70-140
Surrogate: Toluene-d8	52.1		ug/L	50	104	70-140

Matrix Spike (B8A1516-MS1) Source: 8A11016-11 Prepared & Analyzed: 01/15/18

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18

Table with columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8A1516 - EPA 5030B

Matrix Spike (B8A1516-MS1) Continued Source: 8A11016-11 Prepared & Analyzed: 01/15/18

Table listing analytes like tert-Amyl Methyl Ether (TAME), Benzene, tert-Butyl alcohol (TBA) with their respective results and limits.

Table listing surrogate analytes: 4-Bromofluorobenzene, Dibromofluoromethane, Toluene-d8 with their results and limits.

Matrix Spike Dup (B8A1516-MSD1) Source: 8A11016-11 Prepared & Analyzed: 01/15/18

Table listing analytes like tert-Amyl Methyl Ether (TAME), Benzene, tert-Butyl alcohol (TBA) with their respective results and limits.

Table listing surrogate analytes: 4-Bromofluorobenzene, Dibromofluoromethane, Toluene-d8 with their results and limits.

Diesel Range Organics by GC/FID - Quality Control

Batch B8A1512 - EPA 3510C

Blank (B8A1512-BLK1)

Prepared & Analyzed: 01/15/18

Handwritten signature

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Diesel Range Organics by GC/FID - Quality Control

Batch B8A1512 - EPA 3510C

Blank (B8A1512-BLK1) Continued

Prepared & Analyzed: 01/15/18

Diesel Range Organics as Diesel	<60	60	ug/L							
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<i>Surrogate: o-Terphenyl</i>	36.4		ug/L	40	91.0	50-150				
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LCS (B8A1512-BS1)

Prepared & Analyzed: 01/15/18

Diesel Range Organics as Diesel	715	60	ug/L	800	89.4	75-125		30		
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<i>Surrogate: o-Terphenyl</i>	43.7		ug/L	40	109	50-150				
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LCS Dup (B8A1512-BSD1)

Prepared & Analyzed: 01/15/18

Diesel Range Organics as Diesel	839	60	ug/L	800	105	75-125	16.0	30		
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<i>Surrogate: o-Terphenyl</i>	46.0		ug/L	40	115	50-150				
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Total Metals by ICP Atomic Emission Spectroscopy - Quality Control

Batch B8A1637 - EPA 200.7

Blank (B8A1637-BLK1)

Prepared: 01/16/18 Analyzed: 01/17/18

Arsenic	<0.0060	0.0060	mg/L							
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LCS (B8A1637-BS1)

Prepared: 01/16/18 Analyzed: 01/17/18

Arsenic	1.12	0.0060	mg/L	1.0	112	80-120		20		
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LCS Dup (B8A1637-BSD1)

Prepared: 01/16/18 Analyzed: 01/17/18

Arsenic	1.14	0.0060	mg/L	1.0	114	80-120	1.60	20		
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Matrix Spike (B8A1637-MS1)

Source: 8A11023-04

Prepared: 01/16/18 Analyzed: 01/17/18

Arsenic	1.02	0.0060	mg/L	1.0	0.0197	100	75-125		20	
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Matrix Spike Dup (B8A1637-MSD1)

Source: 8A11023-04

Prepared: 01/16/18 Analyzed: 01/17/18

Arsenic	1.11	0.0060	mg/L	1.0	0.0197	109	75-125	7.79	20	
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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 GWETS NPDES Monthly

AA Project No: A5332438
Date Received: 01/11/18
Date Reported: 01/26/18

Special Notes

J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

14454

Page 1 of 1

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

Client: APEX/The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA **Sampler's Name:** Glenn 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.:**

ANALYSIS REQUESTED (Test Name)

TPHD 8015M			
TPHG/BTEX/Oxys 8205B			
Arsenic 200.7			

Please enter the TAT Turnaround Codes ** below

TAT Turnaround Codes **

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

Client I.D.	Date	Time	Sample Matrix	No. of Conts	Special Instructions
Surge Tank	1-11-18	1137	Water	5	
After GAC-1		1132	Water	4	
After GAC-2		1128	Water	4	
After Zolite Bed-1		1123	Water	1	
After Zolite Bed-2		1122	Water	1	

Date: 1/11/18
 Time: 16:35
 PREPARED
 TAT is days sign

Relinquished by <i>Glenn Andreosko</i>	Date 1-11-18	Time 1420	Received by <i>Glenn Andreosko</i>
Relinquished by <i>Neil Irish</i>	Date 1/11/18	Time 1614	Received by <i>Glenn Andreosko</i>
Relinquished by	Date	Time	Received by

AS332438/8A11023

Note: By relinquishing samples to American Analytix, 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 Analytix.



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

January 26, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332435 / 8A11020**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/11/18 16:14 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18

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

Influent	8A11020-01	Vapor	5	01/11/18 13:50	01/11/18 16:14
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VOCs BTEX/MTBE Vapor GC/MS

Influent	8A11020-01	Vapor	5	01/11/18 13:50	01/11/18 16:14
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VOCs Gasoline Range Organics Vapor

Influent	8A11020-01	Vapor	5	01/11/18 13:50	01/11/18 16:14
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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: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

Influent

8A11020-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	3.4	ug/L	0.50	1.1	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	103 %	70-140
Dibromofluoromethane	122 %	70-140
Toluene-d8	99.8 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

Influent**8A11020-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	970	ug/L	20	240	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		103 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18
Units: ppmv

Date Sampled:	01/11/18	
Date Prepared:	01/12/18	
Date Analyzed:	01/12/18	
AA ID No:	8A11020-01	
Client ID No:	Influent	
Matrix:	Vapor	
Dilution Factor:	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	240	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18

Analyte	Reporting Result	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 B8A1204 - *** DEFAULT PREP ***

Blank (B8A1204-BLK1)

Prepared & Analyzed: 01/12/18

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

Surrogate: 4-Bromofluorobenzene	53.4		ug/L	50		107	70-140			
Surrogate: Dibromofluoromethane	60.0		ug/L	50		120	70-140			
Surrogate: Toluene-d8	52.1		ug/L	50		104	70-140			

LCS (B8A1204-BS1)

Prepared & Analyzed: 01/12/18

Benzene	21.0	0.50	ug/L	20		105	75-125			
Ethylbenzene	22.1	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	36.2	2.0	ug/L	40		90.4	75-125			
Toluene	21.4	0.50	ug/L	20		107	75-125			
o-Xylene	21.2	0.50	ug/L	20		106	75-125			
m,p-Xylenes	43.4	1.0	ug/L	40		108	75-125			

Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	55.1		ug/L	50		110	70-140			
Surrogate: Toluene-d8	51.7		ug/L	50		103	70-140			

LCS Dup (B8A1204-BSD1)

Prepared & Analyzed: 01/12/18

Benzene	19.9	0.50	ug/L	20		99.6	75-125	5.14	30	
Ethylbenzene	21.0	0.50	ug/L	20		105	75-125	4.92	30	
Methyl-tert-Butyl Ether (MTBE)	40.4	2.0	ug/L	40		101	75-125	11.2	30	
Toluene	20.0	0.50	ug/L	20		100	75-125	6.42	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	1.04	30	
m,p-Xylenes	42.2	1.0	ug/L	40		106	75-125	2.64	30	

Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50		103	70-140			
Surrogate: Dibromofluoromethane	55.5		ug/L	50		111	70-140			
Surrogate: Toluene-d8	52.8		ug/L	50		106	70-140			

Duplicate (B8A1204-DUP1)

Source: 8A11019-01 Prepared & Analyzed: 01/12/18

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: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18

Table with columns: Analyte, Reporting Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B8A1204 - *** DEFAULT PREP ***

Duplicate (B8A1204-DUP1) Continued Source: 8A11019-01 Prepared & Analyzed: 01/12/18

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

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

Batch B8A1205 - *** DEFAULT PREP ***

Blank (B8A1205-BLK1) Prepared & Analyzed: 01/12/18

Table for Gasoline Range Organics (GRO) in Blank sample, showing results for GRO and Surrogate: a,a,a-Trifluorotoluene.

LCS (B8A1205-BS1) Prepared & Analyzed: 01/12/18

Table for Gasoline Range Organics (GRO) in LCS sample, showing results for GRO and Surrogate: a,a,a-Trifluorotoluene.

LCS Dup (B8A1205-BSD1) Prepared & Analyzed: 01/12/18

Table for Gasoline Range Organics (GRO) in LCS Dup sample, showing results for GRO and Surrogate: a,a,a-Trifluorotoluene.

Duplicate (B8A1205-DUP1) Source: 8A11019-01 Prepared & Analyzed: 01/12/18

Table for Gasoline Range Organics (GRO) in Duplicate sample, showing results for GRO and Surrogate: a,a,a-Trifluorotoluene.

GRO in Vapor as Hexane - Quality Control

Batch B8A1205 - *** DEFAULT PREP ***

Blank (B8A1205-BLK1) Prepared & Analyzed: 01/12/18

Table for GRO as Hexane in Blank sample, showing result for GRO as Hexane.

Duplicate (B8A1205-DUP1) Source: 8A11019-01 Prepared & Analyzed: 01/12/18

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: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8A1205 - *** DEFAULT PREP ***</i>										
Duplicate (B8A1205-DUP1) Continued Source: 8A11019-01 Prepared & Analyzed: 01/12/18										
GRO as Hexane	27.6	5.7	ppmv		35.4			24.8	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: A5332435
Date Received: 01/11/18
Date Reported: 01/26/18

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICALS CHAIN-OF-CUSTODY RECORD

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

Client: APEX/The Source Group, Inc. **Project Name / No.:** DFSP - Norwalk / 091-NDLA **Sampler's Name:** Elena Androsko
Project Manager: Neil Irish **Site Address:** 15306 Norwalk Blvd **Sampler's Signature:** *Alan O. Leuba*
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)

Total VOCs Gas 8019		Total VOCs Hexane 8015		BTEX/M/TBE 8260B		Special Instructions
Yes	No	Yes	No	Yes	No	

Please enter the TAT Turnaround Codes ** below

Client I.D.	Date	Time	Sample Matrix	No. of Cont	Relinquished by	Date	Time	Received by
8A11020-01	1-11-18	1350	Air	1	<i>Alan O. Leuba</i>	1-11-18	1440	<i>Elena Androsko</i>
8A11020-02	"	1345	Air	1	<i>Alan O. Leuba</i>	1-11-18	1614	<i>Elena Androsko</i>

PRIORITY MAIL
 Rush # 15638
 State 15045

AS332435 / 8A11020

Note: By relinquishing samples to American Analyticals, 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 Analyticals.



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

January 26, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332433 / 8A11018**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 01/11/18 16:14 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18

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

Thermox Influent	8A11018-01	Vapor	5	01/11/18 14:00	01/11/18 16:14
Thermox Effluent	8A11018-02	Vapor	5	01/11/18 14:06	01/11/18 16:14
South Trunkline	8A11018-03	Vapor	5	01/11/18 14:18	01/11/18 16:14
East Trunkline	8A11018-04	Vapor	5	01/11/18 14:15	01/11/18 16:14

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	8A11018-01	Vapor	5	01/11/18 14:00	01/11/18 16:14
Thermox Effluent	8A11018-02	Vapor	5	01/11/18 14:06	01/11/18 16:14
South Trunkline	8A11018-03	Vapor	5	01/11/18 14:18	01/11/18 16:14
East Trunkline	8A11018-04	Vapor	5	01/11/18 14:15	01/11/18 16:14

VOCs Gasoline Range Organics Vapor

Thermox Influent	8A11018-01	Vapor	5	01/11/18 14:00	01/11/18 16:14
Thermox Effluent	8A11018-02	Vapor	5	01/11/18 14:06	01/11/18 16:14
South Trunkline	8A11018-03	Vapor	5	01/11/18 14:18	01/11/18 16:14
East Trunkline	8A11018-04	Vapor	5	01/11/18 14:15	01/11/18 16:14

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: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

Thermax Influent
8A11018-01 (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	102 %	70-140
Dibromofluoromethane	119 %	70-140
Toluene-d8	95.9 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

Thermax Effluent
8A11018-02 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	105 %	70-140
Dibromofluoromethane	118 %	70-140
Toluene-d8	100 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

South Trunkline
8A11018-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.54	ug/L	0.50	0.17	ppmv	0.16
Ethylbenzene	4.1	ug/L	0.50	0.94	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	0.86	ug/L	0.50	0.20	ppmv	0.12
m,p-Xylenes	3.0	ug/L	1.0	0.69	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.3 %	70-140
Dibromofluoromethane	123 %	70-140
Toluene-d8	95.7 %	70-140

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

East Trunkline**8A11018-04 (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	102 %	70-140
Dibromofluoromethane	127 %	70-140
Toluene-d8	95.4 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

Thermox Influent
8A11018-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1500	ug/L	20	370	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		116 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

Thermox Effluent
8A11018-02 (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		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: 5
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

South Trunkline**8A11018-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	4600	ug/L	20	1100	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		116 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Sampled: 01/11/18
Prepared: 01/12/18
Analyzed: 01/12/18

East Trunkline**8A11018-04 (Vapor)**

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18
Units: ppmv

Date Sampled:	01/11/18	01/11/18	01/11/18	01/11/18
Date Prepared:	01/12/18	01/12/18	01/12/18	01/12/18
Date Analyzed:	01/12/18	01/12/18	01/12/18	01/12/18
AA ID No:	8A11018-01	8A11018-02	8A11018-03	8A11018-04
Client ID No:	Thermox Influent	Thermox Effluent	South Trunkline	East Trunkline
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	1	1	5	1

MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	380	<5.7	1200	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18

Analyte	Reporting Result	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 B8A1204 - *** DEFAULT PREP ***

Blank (B8A1204-BLK1)

Prepared & Analyzed: 01/12/18

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

Surrogate: 4-Bromofluorobenzene	53.4		ug/L	50		107	70-140			
Surrogate: Dibromofluoromethane	60.0		ug/L	50		120	70-140			
Surrogate: Toluene-d8	52.1		ug/L	50		104	70-140			

LCS (B8A1204-BS1)

Prepared & Analyzed: 01/12/18

Benzene	21.0	0.50	ug/L	20		105	75-125			
Ethylbenzene	22.1	0.50	ug/L	20		110	75-125			
Methyl-tert-Butyl Ether (MTBE)	36.2	2.0	ug/L	40		90.4	75-125			
Toluene	21.4	0.50	ug/L	20		107	75-125			
o-Xylene	21.2	0.50	ug/L	20		106	75-125			
m,p-Xylenes	43.4	1.0	ug/L	40		108	75-125			

Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50		104	70-140			
Surrogate: Dibromofluoromethane	55.1		ug/L	50		110	70-140			
Surrogate: Toluene-d8	51.7		ug/L	50		103	70-140			

LCS Dup (B8A1204-BSD1)

Prepared & Analyzed: 01/12/18

Benzene	19.9	0.50	ug/L	20		99.6	75-125	5.14	30	
Ethylbenzene	21.0	0.50	ug/L	20		105	75-125	4.92	30	
Methyl-tert-Butyl Ether (MTBE)	40.4	2.0	ug/L	40		101	75-125	11.2	30	
Toluene	20.0	0.50	ug/L	20		100	75-125	6.42	30	
o-Xylene	21.0	0.50	ug/L	20		105	75-125	1.04	30	
m,p-Xylenes	42.2	1.0	ug/L	40		106	75-125	2.64	30	

Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50		103	70-140			
Surrogate: Dibromofluoromethane	55.5		ug/L	50		111	70-140			
Surrogate: Toluene-d8	52.8		ug/L	50		106	70-140			

Duplicate (B8A1204-DUP1)

Source: 8A11019-01 Prepared & Analyzed: 01/12/18

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: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control

Batch B8A1204 - *** DEFAULT PREP ***

Duplicate (B8A1204-DUP1) Continued Source: 8A11019-01 Prepared & Analyzed: 01/12/18

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

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

Batch B8A1205 - *** DEFAULT PREP ***

Blank (B8A1205-BLK1) Prepared & Analyzed: 01/12/18

Table listing Gasoline Range Organics (GRO) and Surrogate: a,a,a-Trifluorotoluene for Blank and LCS (B8A1205-BS1) and LCS Dup (B8A1205-BSD1).

GRO in Vapor as Hexane - Quality Control

Batch B8A1205 - *** DEFAULT PREP ***

Blank (B8A1205-BLK1) Prepared & Analyzed: 01/12/18

Table listing GRO as Hexane and Duplicate (B8A1205-DUP1) Source: 8A11019-01 Prepared & Analyzed: 01/12/18

Handwritten signature

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8A1205 - *** DEFAULT PREP ***</i>										
Duplicate (B8A1205-DUP1) Continued Source: 8A11019-01 Prepared & Analyzed: 01/12/18										
GRO as Hexane	27.6	5.7	ppmv		35.4			24.8	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: A5332433
Date Received: 01/11/18
Date Reported: 01/26/18

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

14449 Page 1 of 1

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

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Client I.D.	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		
Thermax Influent	1-11-18	1400	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOC's reported as
Thermax Effluent	02	1406	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TPH and Hexane
South Trunkline	02	1418	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Detection limit of 75
East Trunkline	04	1415	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ppm for Hexane and 0.15 ppm for Benzene

Relinquished by <i>Glenn Androsko</i>	Date 1-11-18	Time 1430	Received by <i>Glenn Androsko</i>
Relinquished by <i>Glenn Androsko</i>	Date 1-11-18	Time 1614	Received by <i>Glenn Androsko</i>
Relinquished by <i>Glenn Androsko</i>	Date 1-11-18	Time 1614	Received by <i>Glenn Androsko</i>

AS332433/8A11018

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

February 27, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-SDLA
A5332461 / 8B12012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/12/18 15:36 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18

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

HW-1	8B12012-01	Vapor	5	02/12/18 11:01	02/12/18 15:36
HW-5	8B12012-02	Vapor	5	02/12/18 11:04	02/12/18 15:36
HW-7	8B12012-03	Vapor	5	02/12/18 11:08	02/12/18 15:36

VOCs BTEX/MTBE Vapor GC/MS

HW-1	8B12012-01	Vapor	5	02/12/18 11:01	02/12/18 15:36
HW-5	8B12012-02	Vapor	5	02/12/18 11:04	02/12/18 15:36
HW-7	8B12012-03	Vapor	5	02/12/18 11:08	02/12/18 15:36

VOCs Gasoline Range Organics Vapor

HW-1	8B12012-01	Vapor	5	02/12/18 11:01	02/12/18 15:36
HW-5	8B12012-02	Vapor	5	02/12/18 11:04	02/12/18 15:36
HW-7	8B12012-03	Vapor	5	02/12/18 11:08	02/12/18 15:36

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/15/18
Analyzed: 02/15/18

HW-1**8B12012-01 (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
Dibromofluoromethane
Toluene-d8

103 %
115 %
99.1 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/15/18
Analyzed: 02/15/18

HW-5**8B12012-02 (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	101 %	70-140
Dibromofluoromethane	116 %	70-140
Toluene-d8	100 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/15/18
Analyzed: 02/15/18

HW-7**8B12012-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	4.0	ug/L	0.50	1.3	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	1.8	ug/L	0.50	0.48	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	101 %	70-140
Dibromofluoromethane	111 %	70-140
Toluene-d8	98.0 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/14/18
Analyzed: 02/14/18

HW-1**8B12012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	110	ug/L	20	27	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		110 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/14/18
Analyzed: 02/14/18

HW-5**8B12012-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	370	ug/L	20	90	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		91.3 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/14/18
Analyzed: 02/14/18

HW-7**8B12012-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	960	ug/L	20	230	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		112 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18
Units: ppmv

Date Sampled:	02/12/18	02/12/18	02/12/18	
Date Prepared:	02/14/18	02/14/18	02/14/18	
Date Analyzed:	02/14/18	02/14/18	02/14/18	
AA ID No:	8B12012-01	8B12012-02	8B12012-03	
Client ID No:	HW-1	HW-5	HW-7	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	27	90	240	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B8B1516 - *** DEFAULT PREP ***</i>									
Blank (B8B1516-BLK1)					Prepared & Analyzed: 02/15/18				
Benzene	<0.50	0.50	ug/L						
Ethylbenzene	<0.50	0.50	ug/L						
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						
Toluene	<0.50	0.50	ug/L						
o-Xylene	<0.50	0.50	ug/L						
m,p-Xylenes	<1.0	1.0	ug/L						
<i>Surrogate: 4-Bromofluorobenzene</i>	51.4		ug/L	50		103 70-140			
<i>Surrogate: Dibromofluoromethane</i>	62.4		ug/L	50		125 70-140			
<i>Surrogate: Toluene-d8</i>	49.9		ug/L	50		99.8 70-140			
LCS (B8B1516-BS1)					Prepared & Analyzed: 02/15/18				
Benzene	20.6	0.50	ug/L	20		103 75-125			
Ethylbenzene	21.4	0.50	ug/L	20		107 75-125			
Methyl-tert-Butyl Ether (MTBE)	38.7	2.0	ug/L	40		96.7 75-125			
Toluene	20.6	0.50	ug/L	20		103 75-125			
o-Xylene	20.9	0.50	ug/L	20		105 75-125			
m,p-Xylenes	41.6	1.0	ug/L	40		104 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	51.3		ug/L	50		103 70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.8		ug/L	50		106 70-140			
<i>Surrogate: Toluene-d8</i>	52.8		ug/L	50		106 70-140			
LCS Dup (B8B1516-BSD1)					Prepared: 02/15/18 Analyzed: 02/16/18				
Benzene	21.2	0.50	ug/L	20		106 75-125	3.07	30	
Ethylbenzene	21.5	0.50	ug/L	20		108 75-125	0.513	30	
Methyl-tert-Butyl Ether (MTBE)	47.9	2.0	ug/L	40		120 75-125	21.3	30	
Toluene	20.5	0.50	ug/L	20		102 75-125	0.439	30	
o-Xylene	21.0	0.50	ug/L	20		105 75-125	0.191	30	
m,p-Xylenes	42.7	1.0	ug/L	40		107 75-125	2.54	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	51.4		ug/L	50		103 70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.0		ug/L	50		112 70-140			
<i>Surrogate: Toluene-d8</i>	53.8		ug/L	50		108 70-140			
Duplicate (B8B1516-DUP1)					Source: 8B14015-01 Prepared & Analyzed: 02/15/18				

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18

Analyte	Reporting Result	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 B8B1516 - *** DEFAULT PREP ***

Duplicate (B8B1516-DUP1) Continued Source: 8B14015-01 Prepared & Analyzed: 02/15/18

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	

Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50		102	70-140			
Surrogate: Dibromofluoromethane	62.4		ug/L	50		125	70-140			
Surrogate: Toluene-d8	49.4		ug/L	50		98.8	70-140			

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

Batch B8B1424 - *** DEFAULT PREP ***

Blank (B8B1424-BLK1) Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	56.4		ug/L	50		113	70-130			

LCS (B8B1424-BS1) Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	492	20	ug/L	500		98.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	55.3		ug/L	50		111	70-130			

LCS Dup (B8B1424-BSD1) Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	494	20	ug/L	500		98.9	75-125	0.500	30	
Surrogate: a,a,a-Trifluorotoluene	59.2		ug/L	50		118	70-130			

Duplicate (B8B1424-DUP1) Source: 8B12010-01 Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	338	20	ug/L		350			3.38	30	
Surrogate: a,a,a-Trifluorotoluene	55.3		ug/L	50		111	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8B1424 - *** DEFAULT PREP ***

Blank (B8B1424-BLK1) Prepared & Analyzed: 02/14/18

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B8B1424-DUP1) Source: 8B12010-01 Prepared & Analyzed: 02/14/18

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8B1424 - *** DEFAULT PREP ***</i>										
Duplicate (B8B1424-DUP1) Continued Source: 8B12010-01 Prepared & Analyzed: 02/14/18										
GRO as Hexane	85.3	5.7	ppmv		88.2			3.42	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332461
Date Received: 02/12/18
Date Reported: 02/27/18

Special Notes

Viorel Vasile
Operations Manager



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California 91311
Tel: (818) 998-5547
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February 27, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NDLA
A5332459 / 8B12010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/12/18 15:36 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18

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

Influent	8B12010-01	Vapor	5	02/12/18 10:20	02/12/18 15:36
Effluent	8B12010-02	Vapor	5	02/12/18 10:15	02/12/18 15:36

VOCs BTEX/MTBE Vapor GC/MS

Influent	8B12010-01	Vapor	5	02/12/18 10:20	02/12/18 15:36
Effluent	8B12010-02	Vapor	5	02/12/18 10:15	02/12/18 15:36

VOCs Gasoline Range Organics Vapor

Influent	8B12010-01	Vapor	5	02/12/18 10:20	02/12/18 15:36
Effluent	8B12010-02	Vapor	5	02/12/18 10:15	02/12/18 15:36

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/15/18
Analyzed: 02/15/18

Influent**8B12010-01 (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
Dibromofluoromethane
Toluene-d8

102 %
114 %
101 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/15/18
Analyzed: 02/15/18

Effluent**8B12010-02 (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
Dibromofluoromethane
Toluene-d8

101 %
122 %
98.9 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/14/18
Analyzed: 02/14/18

Influent

8B12010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	350	ug/L	20	86	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		106 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18
Sampled: 02/12/18
Prepared: 02/14/18
Analyzed: 02/14/18

Effluent**8B12010-02 (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		117 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD
Method: GRO in Vapor as Hexane

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18
Units: ppmv

Date Sampled:	02/12/18	02/12/18	
Date Prepared:	02/14/18	02/14/18	
Date Analyzed:	02/14/18	02/14/18	
AA ID No:	8B12010-01	8B12010-02	
Client ID No:	Influent	Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	88	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18

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

Batch B8B1516 - *** DEFAULT PREP ***

Blank (B8B1516-BLK1)

Prepared & Analyzed: 02/15/18

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

Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50		103	70-140		
Surrogate: Dibromofluoromethane	62.4		ug/L	50		125	70-140		
Surrogate: Toluene-d8	49.9		ug/L	50		99.8	70-140		

LCS (B8B1516-BS1)

Prepared & Analyzed: 02/15/18

Benzene	20.6	0.50	ug/L	20		103	75-125		
Ethylbenzene	21.4	0.50	ug/L	20		107	75-125		
Methyl-tert-Butyl Ether (MTBE)	38.7	2.0	ug/L	40		96.7	75-125		
Toluene	20.6	0.50	ug/L	20		103	75-125		
o-Xylene	20.9	0.50	ug/L	20		105	75-125		
m,p-Xylenes	41.6	1.0	ug/L	40		104	75-125		

Surrogate: 4-Bromofluorobenzene	51.3		ug/L	50		103	70-140		
Surrogate: Dibromofluoromethane	52.8		ug/L	50		106	70-140		
Surrogate: Toluene-d8	52.8		ug/L	50		106	70-140		

LCS Dup (B8B1516-BSD1)

Prepared: 02/15/18 Analyzed: 02/16/18

Benzene	21.2	0.50	ug/L	20		106	75-125	3.07	30
Ethylbenzene	21.5	0.50	ug/L	20		108	75-125	0.513	30
Methyl-tert-Butyl Ether (MTBE)	47.9	2.0	ug/L	40		120	75-125	21.3	30
Toluene	20.5	0.50	ug/L	20		102	75-125	0.439	30
o-Xylene	21.0	0.50	ug/L	20		105	75-125	0.191	30
m,p-Xylenes	42.7	1.0	ug/L	40		107	75-125	2.54	30

Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50		103	70-140		
Surrogate: Dibromofluoromethane	56.0		ug/L	50		112	70-140		
Surrogate: Toluene-d8	53.8		ug/L	50		108	70-140		

Duplicate (B8B1516-DUP1)

Source: 8B14015-01 Prepared & Analyzed: 02/15/18

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18

Analyte	Reporting Result	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 B8B1516 - *** DEFAULT PREP ***

Duplicate (B8B1516-DUP1) Continued Source: 8B14015-01 Prepared & Analyzed: 02/15/18

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	

Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50		102	70-140			
Surrogate: Dibromofluoromethane	62.4		ug/L	50		125	70-140			
Surrogate: Toluene-d8	49.4		ug/L	50		98.8	70-140			

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

Batch B8B1424 - *** DEFAULT PREP ***

Blank (B8B1424-BLK1) Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	56.4		ug/L	50		113	70-130			

LCS (B8B1424-BS1) Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	492	20	ug/L	500		98.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	55.3		ug/L	50		111	70-130			

LCS Dup (B8B1424-BSD1) Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	494	20	ug/L	500		98.9	75-125	0.500	30	
Surrogate: a,a,a-Trifluorotoluene	59.2		ug/L	50		118	70-130			

Duplicate (B8B1424-DUP1) Source: 8B12010-01 Prepared & Analyzed: 02/14/18

Gasoline Range Organics (GRO)	338	20	ug/L			350		3.38	30	
Surrogate: a,a,a-Trifluorotoluene	55.3		ug/L	50		111	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8B1424 - *** DEFAULT PREP ***

Blank (B8B1424-BLK1) Prepared & Analyzed: 02/14/18

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B8B1424-DUP1) Source: 8B12010-01 Prepared & Analyzed: 02/14/18

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8B1424 - *** DEFAULT PREP ***</i>										
Duplicate (B8B1424-DUP1) Continued Source: 8B12010-01 Prepared & Analyzed: 02/14/18										
GRO as Hexane	85.3	5.7	ppmv		88.2			3.42	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NDLA
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5332459
Date Received: 02/12/18
Date Reported: 02/27/18

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

14643

Page / of /

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

TAT Turnaround Codes **

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

Client I.D.	Date	Time	Sample Matrix	No. of Cont	ANALYSIS REQUESTED (Test Name)			Special Instructions
					Total VOCs Gas 8015	Total VOCs Hexane 815	BTEX/MTBE 8260B	
Influent	2-12-18	10:20	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Effluent	"	10:15	Air	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	2-12-18	14:10	<i>[Signature]</i>		
<i>[Signature]</i>	2/12/18	15:36	<i>[Signature]</i>		
<i>[Signature]</i>					

PRIORITY
 12/18/18
 15:36

A5332459/8812010

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

March 19, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332482 / 8B26016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 02/26/18 14:35 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Surge Tank	8B26016-01	Water	5	02/26/18 10:01	02/26/18 14:35
After GAC-1	8B26016-02	Water	5	02/26/18 09:56	02/26/18 14:35
After GAC-2	8B26016-03	Water	5	02/26/18 09:51	02/26/18 14:35

Arsenic Total EPA 200.7

Surge Tank	8B26016-01	Water	5	02/26/18 10:01	02/26/18 14:35
After Zeolite Bed-1	8B26016-04	Water	5	02/26/18 09:47	02/26/18 14:35
After Zeolite Bed-2	8B26016-05	Water	5	02/26/18 09:46	02/26/18 14:35

Copper Dissolved EPA 200.7

Z-AAL-FE_Influent	8B26016-06	Water	5	02/26/18 09:43	02/26/18 14:35
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Copper Total EPA 200.7

Z-AAL-FE_Influent	8B26016-06	Water	5	02/26/18 09:43	02/26/18 14:35
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Diesel Range Organics 8015M

Surge Tank	8B26016-01	Water	5	02/26/18 10:01	02/26/18 14:35
After GAC-1	8B26016-02	Water	5	02/26/18 09:56	02/26/18 14:35
After GAC-2	8B26016-03	Water	5	02/26/18 09:51	02/26/18 14:35

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18
Units: ug/L

Date Sampled:	02/26/18	02/26/18	02/26/18		
Date Prepared:	03/06/18	03/06/18	03/06/18		
Date Analyzed:	03/06/18	03/06/18	03/06/18		
AA ID No:	8B26016-01	8B26016-02	8B26016-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	5.3	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	0.49 J	<0.40	<0.40	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	109%	105%	107%	70-140
Dibromofluoromethane	112%	120%	114%	70-140
Toluene-d8	100%	98%	102%	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18
Units: ug/L

Date Sampled:	02/26/18	02/26/18	02/26/18		
Date Prepared:	03/02/18	03/02/18	03/02/18		
Date Analyzed:	03/02/18	03/02/18	03/02/18		
AA ID No:	8B26016-01	8B26016-02	8B26016-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	130	<60	<60	60	100
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Surrogates

o-Terphenyl	84%	67%	73%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH) **AA Project No:** A5332482
Project No: 04-NDLA-013 **Date Received:** 02/26/18
Project Name: DFSP Norwalk GWETS NPDES Monthly **Date Reported:** 03/19/18
Method: Dissolved Metals by ICP Atomic Emission Spectroscopy

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Copper Dissolved EPA 200.7 (EPA 200.7)</u>									
8B26016-06	Z-AAL-FE_Influent	02/26/18	03/02/18	03/02/18	1	<0.0070	mg/L	0.007	0.007

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
8B26016-01	Surge Tank	02/26/18	03/02/18	03/02/18	1	0.026	mg/L	0.006	0.007
8B26016-04	After Zeolite Bed-1	02/26/18	03/02/18	03/02/18	1	0.015	mg/L	0.006	0.007
8B26016-05	After Zeolite Bed-2	02/26/18	03/02/18	03/02/18	1	0.016	mg/L	0.006	0.007
<u>Copper Total EPA 200.7 (EPA 200.7)</u>									
8B26016-06	Z-AAL-FE_Influent	02/26/18	03/02/18	03/02/18	1	0.034	mg/L	0.007	0.007

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8C0616 - EPA 5030B

Blank (B8C0616-BLK1)

Prepared & Analyzed: 03/06/18

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							

Surrogate: 4-Bromofluorobenzene	53.1		ug/L	50		106	70-140			
Surrogate: Dibromofluoromethane	62.7		ug/L	50		125	70-140			
Surrogate: Toluene-d8	48.9		ug/L	50		97.9	70-140			

LCS (B8C0616-BS1)

Prepared & Analyzed: 03/06/18

tert-Amyl Methyl Ether (TAME)	22.2	0.30	ug/L	20		111	70-130			
Benzene	18.5	0.20	ug/L	20		92.3	75-125			
tert-Butyl alcohol (TBA)	116	7.0	ug/L	100		116	70-130			
Diisopropyl ether (DIPE)	20.1	0.50	ug/L	20		100	70-130			
Ethylbenzene	19.4	0.20	ug/L	20		97.0	75-125			
Ethyl-tert-Butyl Ether (ETBE)	21.4	0.40	ug/L	20		107	70-130			
Gasoline Range Organics (GRO)	519	40	ug/L	500		104	70-130			
Methyl-tert-Butyl Ether (MTBE)	35.0	0.40	ug/L	40		87.5	70-135			
Toluene	18.6	0.30	ug/L	20		93.2	75-125			
o-Xylene	18.6	0.30	ug/L	20		93.0	75-125			
m,p-Xylenes	36.7	0.40	ug/L	40		91.7	70-130			

Surrogate: 4-Bromofluorobenzene	52.4		ug/L	50		105	70-140			
Surrogate: Dibromofluoromethane	50.4		ug/L	50		101	70-140			
Surrogate: Toluene-d8	50.3		ug/L	50		101	70-140			

Matrix Spike (B8C0616-MS1) Source: 8B26011-01 Prepared & Analyzed: 03/06/18

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
TPHG/BTEX/Oxygenates by GC/MS - Quality Control										
<i>Batch B8C0616 - EPA 5030B</i>										
Matrix Spike (B8C0616-MS1) Continued Source: 8B26011-01 Prepared & Analyzed: 03/06/18										
tert-Amyl Methyl Ether (TAME)	26.0	0.30	ug/L	20		130	70-130			
Benzene	19.5	0.20	ug/L	20		97.4	70-130			
tert-Butyl alcohol (TBA)	132	7.0	ug/L	100		132	70-130			QM-07
Diisopropyl ether (DIPE)	21.7	0.50	ug/L	20		108	70-130			
Ethylbenzene	18.2	0.20	ug/L	20		90.8	70-130			
Ethyl-tert-Butyl Ether (ETBE)	24.3	0.40	ug/L	20		122	70-130			
Methyl-tert-Butyl Ether (MTBE)	49.8	0.40	ug/L	40		124	70-130			
Toluene	17.3	0.30	ug/L	20		86.4	70-130			
o-Xylene	17.3	0.30	ug/L	20		86.4	70-130			
m,p-Xylenes	33.9	0.40	ug/L	40		84.7	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	53.0		ug/L	50		106	70-140			
<i>Surrogate: Dibromofluoromethane</i>	49.6		ug/L	50		99.3	70-140			
<i>Surrogate: Toluene-d8</i>	46.7		ug/L	50		93.3	70-140			
Matrix Spike Dup (B8C0616-MSD1) Source: 8B26011-01 Prepared & Analyzed: 03/06/18										
tert-Amyl Methyl Ether (TAME)	25.1	0.30	ug/L	20		126	70-130	3.25	30	
Benzene	20.3	0.20	ug/L	20		102	70-130	4.17	30	
tert-Butyl alcohol (TBA)	128	7.0	ug/L	100		128	70-130	3.08	30	
Diisopropyl ether (DIPE)	22.4	0.50	ug/L	20		112	70-130	3.40	30	
Ethylbenzene	19.0	0.20	ug/L	20		94.9	70-130	4.36	30	
Ethyl-tert-Butyl Ether (ETBE)	23.6	0.40	ug/L	20		118	70-130	2.71	30	
Methyl-tert-Butyl Ether (MTBE)	40.8	0.40	ug/L	40		102	70-130	19.9	30	
Toluene	18.0	0.30	ug/L	20		90.0	70-130	4.08	30	
o-Xylene	17.8	0.30	ug/L	20		89.2	70-130	3.19	30	
m,p-Xylenes	35.2	0.40	ug/L	40		88.0	70-130	3.91	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	52.6		ug/L	50		105	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.7		ug/L	50		103	70-140			
<i>Surrogate: Toluene-d8</i>	47.3		ug/L	50		94.6	70-140			

Diesel Range Organics by GC/FID - Quality Control*Batch B8C0202 - EPA 3510C***Blank (B8C0202-BLK1)**

Prepared & Analyzed: 03/02/18

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
<i>Batch B8C0202 - EPA 3510C</i>										
Blank (B8C0202-BLK1) Continued				Prepared & Analyzed: 03/02/18						
Diesel Range Organics as Diesel	<60	60	ug/L							
<i>Surrogate: o-Terphenyl</i>	35.9		ug/L	40		89.6	50-150			
LCS (B8C0202-BS1)				Prepared & Analyzed: 03/02/18						
Diesel Range Organics as Diesel	718	60	ug/L	800		89.7	75-125		30	
<i>Surrogate: o-Terphenyl</i>	36.5		ug/L	40		91.4	50-150			
LCS Dup (B8C0202-BSD1)				Prepared & Analyzed: 03/02/18						
Diesel Range Organics as Diesel	841	60	ug/L	800		105	75-125	15.8	30	
<i>Surrogate: o-Terphenyl</i>	41.8		ug/L	40		105	50-150			
Matrix Spike (B8C0202-MS1)				Source: 8B26011-01 Prepared & Analyzed: 03/02/18						
Diesel Range Organics as Diesel	833	60	ug/L	800	266	70.9	70-130		30	
<i>Surrogate: o-Terphenyl</i>	35.2		ug/L	40		87.9	50-150			
Matrix Spike Dup (B8C0202-MSD1)				Source: 8B26011-01 Prepared & Analyzed: 03/02/18						
Diesel Range Organics as Diesel	868	60	ug/L	800	266	75.3	70-130	4.14	30	
<i>Surrogate: o-Terphenyl</i>	39.7		ug/L	40		99.4	50-150			
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8C0206 - EPA 200.7</i>										
Blank (B8C0206-BLK1)				Prepared & Analyzed: 03/02/18						
Copper	<0.0070	0.0070	mg/L							
LCS (B8C0206-BS1)				Prepared & Analyzed: 03/02/18						
Copper	0.981	0.0070	mg/L	1.0		98.1	80-120		20	
LCS Dup (B8C0206-BSD1)				Prepared & Analyzed: 03/02/18						
Copper	0.995	0.0070	mg/L	1.0		99.5	80-120	1.40	20	
Duplicate (B8C0206-DUP1)				Source: 8B26015-01 Prepared & Analyzed: 03/02/18						
Copper	<0.0070	0.0070	mg/L						30	
Matrix Spike (B8C0206-MS1)				Source: 8B26016-06 Prepared & Analyzed: 03/02/18						
Copper	1.12	0.0070	mg/L	1.0	<0.0070	112	75-125		20	
Matrix Spike Dup (B8C0206-MSD1)				Source: 8B26016-06 Prepared & Analyzed: 03/02/18						
Copper	1.10	0.0070	mg/L	1.0	<0.0070	110	75-125	0.901	20	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8C0207 - EPA 200.7</i>										
Blank (B8C0207-BLK1)				Prepared & Analyzed: 03/02/18						
Arsenic	<0.0060	0.0060	mg/L							
Copper	<0.0070	0.0070	mg/L							
LCS (B8C0207-BS1)				Prepared & Analyzed: 03/02/18						
Arsenic	1.03	0.0060	mg/L	1.0		103	80-120		20	
Copper	0.981	0.0070	mg/L	1.0		98.1	80-120		20	
LCS Dup (B8C0207-BSD1)				Prepared & Analyzed: 03/02/18						
Copper	0.995	0.0070	mg/L	1.0		99.5	80-120	1.40	20	
Arsenic	1.04	0.0060	mg/L	1.0		104	80-120	1.07	20	
Duplicate (B8C0207-DUP1)				Source: 8B26015-01 Prepared & Analyzed: 03/02/18						
Arsenic	<0.0060	0.0060	mg/L						30	
Copper	<0.0070	0.0070	mg/L						30	
Matrix Spike (B8C0207-MS1)				Source: 8B26016-06 Prepared & Analyzed: 03/02/18						
Arsenic	1.00	0.0060	mg/L	1.0		100	75-125		20	
Copper	1.11	0.0070	mg/L	1.0	0.0339	108	75-125		20	
Matrix Spike Dup (B8C0207-MSD1)				Source: 8B26016-06 Prepared & Analyzed: 03/02/18						
Arsenic	1.01	0.0060	mg/L	1.0		101	75-125	0.596	20	
Copper	1.12	0.0070	mg/L	1.0	0.0339	109	75-125	0.897	20	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332482
Date Received: 02/26/18
Date Reported: 03/19/18

Special Notes

- J** : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- [1] = QM-07** : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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

14759
 Page 1 of 1

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

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

TPHd 8015M	TPHg/BTEX/Oxys 8288B	Arsenic 200.7	Copper 6010B	Dissolved Copper 601	Special Instructions

Please enter the TAT Turnaround Codes ** below

Client I.D.	No. of Cont.	Sample Matrix	Time	Date	No. of Cont.	Please enter the TAT Turnaround Codes ** below					Special Instructions							
Surge Tank	5	Water	1001	2-26-18	5	✓	✓	✓	✓	✓								
After GAC-1	4	Water	0956		4	✓												
After GAC-2	4	Water	0951		4	✓												
After Zolite Bed-1	1	Water	0947		1			✓										
After Zolite Bed-2	1	Water	0946		1				✓									
Z-AAL-FE_Influent	2	Water	0943	↓	2							✓						

PRIORITIZED
 1/31/18
 11:30 AM

AS332482/8826016

Relinquished by <i>Glenn Andraska</i>	Date 2-26-18	Time 13:20
Relinquished by <i>Glenn Andraska</i>	Date 2/26/18	Time 1435
Relinquished by	Date	Time

Note: By relinquishing samples to American Analytix, 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 Analytix.



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

March 24, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332492 / 8C14012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/14/18 19:18 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18

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

RW-2	8C14012-01	Vapor	5	03/14/18 08:31	03/14/18 19:18
RW-7	8C14012-02	Vapor	5	03/14/18 08:26	03/14/18 19:18
RW-11	8C14012-03	Vapor	5	03/14/18 08:36	03/14/18 19:18
RW-12	8C14012-04	Vapor	5	03/14/18 08:53	03/14/18 19:18
RW-18	8C14012-05	Vapor	5	03/14/18 08:57	03/14/18 19:18
RW-13	8C14012-06	Vapor	5	03/14/18 09:14	03/14/18 19:18
RW-14	8C14012-07	Vapor	5	03/14/18 09:17	03/14/18 19:18
RW-3	8C14012-08	Vapor	5	03/14/18 09:36	03/14/18 19:18
RW-4	8C14012-09	Vapor	5	03/14/18 09:41	03/14/18 19:18
RW-5	8C14012-10	Vapor	5	03/14/18 09:44	03/14/18 19:18
RW-9	8C14012-11	Vapor	5	03/14/18 09:47	03/14/18 19:18
RW-10	8C14012-12	Vapor	5	03/14/18 09:50	03/14/18 19:18

VOCs BTEX/MTBE Vapor GC/MS

RW-2	8C14012-01	Vapor	5	03/14/18 08:31	03/14/18 19:18
RW-7	8C14012-02	Vapor	5	03/14/18 08:26	03/14/18 19:18
RW-11	8C14012-03	Vapor	5	03/14/18 08:36	03/14/18 19:18
RW-12	8C14012-04	Vapor	5	03/14/18 08:53	03/14/18 19:18
RW-18	8C14012-05	Vapor	5	03/14/18 08:57	03/14/18 19:18

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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
RW-13	8C14012-06	Vapor	5	03/14/18 09:14	03/14/18 19:18
RW-14	8C14012-07	Vapor	5	03/14/18 09:17	03/14/18 19:18
RW-3	8C14012-08	Vapor	5	03/14/18 09:36	03/14/18 19:18
RW-4	8C14012-09	Vapor	5	03/14/18 09:41	03/14/18 19:18
RW-5	8C14012-10	Vapor	5	03/14/18 09:44	03/14/18 19:18
RW-9	8C14012-11	Vapor	5	03/14/18 09:47	03/14/18 19:18
RW-10	8C14012-12	Vapor	5	03/14/18 09:50	03/14/18 19:18

VOCs Gasoline Range Organics Vapor

RW-2	8C14012-01	Vapor	5	03/14/18 08:31	03/14/18 19:18
RW-7	8C14012-02	Vapor	5	03/14/18 08:26	03/14/18 19:18
RW-11	8C14012-03	Vapor	5	03/14/18 08:36	03/14/18 19:18
RW-12	8C14012-04	Vapor	5	03/14/18 08:53	03/14/18 19:18
RW-18	8C14012-05	Vapor	5	03/14/18 08:57	03/14/18 19:18
RW-13	8C14012-06	Vapor	5	03/14/18 09:14	03/14/18 19:18
RW-14	8C14012-07	Vapor	5	03/14/18 09:17	03/14/18 19:18
RW-3	8C14012-08	Vapor	5	03/14/18 09:36	03/14/18 19:18
RW-4	8C14012-09	Vapor	5	03/14/18 09:41	03/14/18 19:18
RW-5	8C14012-10	Vapor	5	03/14/18 09:44	03/14/18 19:18
RW-9	8C14012-11	Vapor	5	03/14/18 09:47	03/14/18 19:18
RW-10	8C14012-12	Vapor	5	03/14/18 09:50	03/14/18 19:18

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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-2**8C14012-01 (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	111 %	70-140
Dibromofluoromethane	124 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-7

8C14012-02 (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	113 %	70-140
Dibromofluoromethane	126 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-11

8C14012-03 (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
Dibromofluoromethane
Toluene-d8

112 %
130 %
96.7 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-12**8C14012-04 (Vapor)**

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

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

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

115 %
136 %
98.9 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-18**8C14012-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	4.4	ug/L	0.50	1.4	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	1.1	ug/L	0.50	0.25	ppmv	0.12
m,p-Xylenes	3.3	ug/L	1.0	0.76	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	113 %	70-140
Dibromofluoromethane	121 %	70-140
Toluene-d8	98.4 %	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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-13**8C14012-06 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	29	ug/L	0.50	9.1	ppmv	0.16
Ethylbenzene	2.8	ug/L	0.50	0.64	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	2.0	ug/L	0.50	0.46	ppmv	0.12
m,p-Xylenes	7.6	ug/L	1.0	1.8	ppmv	0.23

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

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

120 %
116 %
94.1 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-14**8C14012-07 (Vapor)**

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	117 %	70-140
Toluene-d8	98.3 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-3**8C14012-08 (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
Dibromofluoromethane
Toluene-d8

109 %
119 %
103 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-4**8C14012-09 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	5.9	ug/L	0.50	1.8	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	111 %	70-140
Dibromofluoromethane	116 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-5**8C14012-10 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	5.5	ug/L	0.50	1.7	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	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	0.76	ug/L	0.50	0.18	ppmv	0.12
m,p-Xylenes	11	ug/L	1.0	2.5	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	113 %	70-140
Dibromofluoromethane	116 %	70-140
Toluene-d8	94.8 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-9**8C14012-11 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	59	ug/L	0.50	18	ppmv	0.16
Ethylbenzene	22	ug/L	0.50	5.1	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	13	ug/L	0.50	3.0	ppmv	0.12
m,p-Xylenes	41	ug/L	1.0	9.4	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	111 %	70-140
Dibromofluoromethane	110 %	70-140
Toluene-d8	99.1 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

RW-10**8C14012-12 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	45	ug/L	0.50	14	ppmv	0.16
Ethylbenzene	3.0	ug/L	0.50	0.69	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	2.3	ug/L	0.50	0.53	ppmv	0.12
m,p-Xylenes	25	ug/L	1.0	5.8	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	127 %	70-140
Dibromofluoromethane	110 %	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: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-2**8C14012-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	92	ug/L	20	22	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
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
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-7**8C14012-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	260	ug/L	20	64	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		120 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-11

8C14012-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	950	ug/L	20	230	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		128 %			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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-12

8C14012-04 (Vapor)

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

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-18**8C14012-05 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	2000	ug/L	20	490	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		130 %			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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-13**8C14012-06 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	30000	ug/L	20	7300	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		127 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-14**8C14012-07 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	3900	ug/L	20	950	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		129 %			70-130	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-3

8C14012-08 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	150	ug/L	20	37	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		125 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-4**8C14012-09 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1900	ug/L	20	460	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		117 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-5**8C14012-10 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	12000	ug/L	20	2900	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		128 %			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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-9

8C14012-11 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	8100	ug/L	20	2000	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
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
Matrix: Vapor
Dilution: 20
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/16/18
Analyzed: 03/16/18

RW-10**8C14012-12 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	58000	ug/L	20	14000	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		130 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Units: ppmv

Date Sampled:	03/14/18	03/14/18	03/14/18	03/14/18	
Date Prepared:	03/16/18	03/16/18	03/16/18	03/16/18	
Date Analyzed:	03/16/18	03/16/18	03/16/18	03/16/18	
AA ID No:	8C14012-01	8C14012-02	8C14012-03	8C14012-04	
Client ID No:	RW-2	RW-7	RW-11	RW-12	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	23	64	230	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Units: ppmv

Date Sampled:	03/14/18	03/14/18	03/14/18	03/14/18	
Date Prepared:	03/16/18	03/16/18	03/16/18	03/16/18	
Date Analyzed:	03/16/18	03/16/18	03/16/18	03/16/18	
AA ID No:	8C14012-05	8C14012-06	8C14012-07	8C14012-08	
Client ID No:	RW-18	RW-13	RW-14	RW-3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	10	2	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	500	7300	970	38	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18
Units: ppmv

Date Sampled:	03/14/18	03/14/18	03/14/18	03/14/18	
Date Prepared:	03/16/18	03/16/18	03/16/18	03/16/18	
Date Analyzed:	03/16/18	03/16/18	03/16/18	03/16/18	
AA ID No:	8C14012-09	8C14012-10	8C14012-11	8C14012-12	
Client ID No:	RW-4	RW-5	RW-9	RW-10	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	2	10	10	20	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	450	3000	2000	14000	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B8C1507 - *** DEFAULT PREP ***</i>									
Blank (B8C1507-BLK1)				Prepared & Analyzed: 03/15/18					
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>	57.6		ug/L	50		115 70-140			
<i>Surrogate: Dibromofluoromethane</i>	63.0		ug/L	50		126 70-140			
<i>Surrogate: Toluene-d8</i>	53.6		ug/L	50		107 70-140			
LCS (B8C1507-BS1)				Prepared & Analyzed: 03/15/18					
Benzene	21.7	0.50	ug/L	20		108 75-125			
Ethylbenzene	20.9	0.50	ug/L	20		104 75-125			
Methyl-tert-Butyl Ether (MTBE)	31.6	2.0	ug/L	40		79.1 75-125			
Toluene	19.6	0.50	ug/L	20		98.2 75-125			
o-Xylene	19.0	0.50	ug/L	20		95.2 75-125			
m,p-Xylenes	37.8	1.0	ug/L	40		94.6 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	54.2		ug/L	50		108 70-140			
<i>Surrogate: Dibromofluoromethane</i>	53.2		ug/L	50		106 70-140			
<i>Surrogate: Toluene-d8</i>	54.0		ug/L	50		108 70-140			
LCS Dup (B8C1507-BSD1)				Prepared & Analyzed: 03/15/18					
Benzene	21.0	0.50	ug/L	20		105 75-125	2.95	30	
Ethylbenzene	19.7	0.50	ug/L	20		98.4 75-125	5.92	30	
Methyl-tert-Butyl Ether (MTBE)	34.3	2.0	ug/L	40		85.8 75-125	8.07	30	
Toluene	18.2	0.50	ug/L	20		90.8 75-125	7.78	30	
o-Xylene	18.0	0.50	ug/L	20		90.0 75-125	5.56	30	
m,p-Xylenes	37.2	1.0	ug/L	40		93.0 75-125	1.65	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	55.5		ug/L	50		111 70-140			
<i>Surrogate: Dibromofluoromethane</i>	52.9		ug/L	50		106 70-140			
<i>Surrogate: Toluene-d8</i>	50.9		ug/L	50		102 70-140			
Duplicate (B8C1507-DUP1)				Source: 8C14012-01 Prepared & Analyzed: 03/15/18					

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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18

Analyte	Reporting Result	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 B8C1507 - *** DEFAULT PREP ***

Duplicate (B8C1507-DUP1) Continued Source: 8C14012-01 Prepared & Analyzed: 03/15/18

Benzene	<0.50	0.50	ug/L		<0.50					30
Ethylbenzene	<0.50	0.50	ug/L		<0.50					30
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L		<2.0					30
Toluene	<0.50	0.50	ug/L		<0.50					30
o-Xylene	<0.50	0.50	ug/L		<0.50					30
m,p-Xylenes	<1.0	1.0	ug/L		<1.0					30
Surrogate: 4-Bromofluorobenzene	56.2		ug/L	50		112	70-140			
Surrogate: Dibromofluoromethane	63.6		ug/L	50		127	70-140			
Surrogate: Toluene-d8	50.6		ug/L	50		101	70-140			

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

Batch B8C1608 - *** DEFAULT PREP ***

Blank (B8C1608-BLK1) Prepared & Analyzed: 03/16/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	56.3		ug/L	50		113	70-130			

LCS (B8C1608-BS1) Prepared & Analyzed: 03/16/18

Gasoline Range Organics (GRO)	470	20	ug/L	500		94.1	75-125			
Surrogate: a,a,a-Trifluorotoluene	61.9		ug/L	50		124	70-130			

LCS Dup (B8C1608-BSD1) Prepared & Analyzed: 03/16/18

Gasoline Range Organics (GRO)	517	20	ug/L	500		103	75-125	9.47	30	
Surrogate: a,a,a-Trifluorotoluene	62.2		ug/L	50		124	70-130			

Duplicate (B8C1608-DUP1) Source: 8C14012-05 Prepared & Analyzed: 03/16/18

Gasoline Range Organics (GRO)	1940	20	ug/L		2030			4.59	30	
Surrogate: a,a,a-Trifluorotoluene	64.0		ug/L	50		128	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8C1608 - *** DEFAULT PREP ***

Blank (B8C1608-BLK1) Prepared & Analyzed: 03/16/18

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B8C1608-DUP1) Source: 8C14012-05 Prepared & Analyzed: 03/16/18

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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8C1608 - *** DEFAULT PREP ***</i>										
Duplicate (B8C1608-DUP1) Continued Source: 8C14012-05 Prepared & Analyzed: 03/16/18										
GRO as Hexane	481	5.7	ppmv		504			4.52	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: A5332492
Date Received: 03/14/18
Date Reported: 03/24/18

Special Notes

Viorel Vasile
Operations Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

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

14911

Page 1 of 1

Client: The Source Group, Inc. Project Name / No.: DFSP - Norwalk / 091-NDLA-018 Sampler's Name: Glenn Androske
 Project Manager: Neil Irish Site Address: 15306 Norwalk Blvd Sampler's Signature: *Glenn Androske*
 Phone: 562-597-1055 City: Norwalk P.O. No.:
 Fax: 569-597-1070 State & Zip: CA 90650 Quote No.:

TAT Turnaround Codes **

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

ANALYSIS REQUESTED (Test Name)

Client I.D.	Date	Time	Sample Matrix	No. of Cont.	Total VOCs as Gas 8015		BTEX/MTBE 8260B		Total VOCs Hexane 8015		Special Instructions
					✓	✓	✓	✓	✓	✓	
RW-2	5-14-18	0831	Air	1	✓	✓	✓	✓	✓	✓	
RW-7		0824	Air	1	✓	✓	✓	✓	✓	✓	
RW-11		0826	Air	1	✓	✓	✓	✓	✓	✓	
RW-12		0853	Air	1	✓	✓	✓	✓	✓	✓	
RW-18		0857	Air	1	✓	✓	✓	✓	✓	✓	
RW-13		0914	Air	1	✓	✓	✓	✓	✓	✓	
RW-14		0917	Air	1	✓	✓	✓	✓	✓	✓	
RW-3		0934	Air	1	✓	✓	✓	✓	✓	✓	
RW-4		0941	Air	1	✓	✓	✓	✓	✓	✓	
RW-5		0944	Air	1	✓	✓	✓	✓	✓	✓	
RW-9		0947	Air	1	✓	✓	✓	✓	✓	✓	
RW-10		0950	Air	1	✓	✓	✓	✓	✓	✓	
Relinquished by <i>Glenn Androske</i> Date 3-14-18 Time 1410 Received by <i>Glenn</i> Relinquished by <i>Glenn</i> Date 3/14/18 Time 1918 Received by <i>Glenn</i> Relinquished by _____ Date _____ Time _____ Received by _____											

A5332492/8C14012

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

March 24, 2018

Neil Irish

The Source Group, Inc. (SH)

1962 Freeman Ave.

Signal Hill, CA 90755

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

A5332491 / 8C14011

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/14/18 19:18 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile

Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18

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

Thermox Influent	8C14011-01	Vapor	5	03/14/18 10:34	03/14/18 19:18
Thermox Effluent	8C14011-02	Vapor	5	03/14/18 10:37	03/14/18 19:18
South Trunkline	8C14011-03	Vapor	5	03/14/18 10:11	03/14/18 19:18
East Trunkline	8C14011-04	Vapor	5	03/14/18 10:07	03/14/18 19:18

VOCs BTEX/MTBE Vapor GC/MS

Thermox Influent	8C14011-01	Vapor	5	03/14/18 10:34	03/14/18 19:18
Thermox Effluent	8C14011-02	Vapor	5	03/14/18 10:37	03/14/18 19:18
South Trunkline	8C14011-03	Vapor	5	03/14/18 10:11	03/14/18 19:18
East Trunkline	8C14011-04	Vapor	5	03/14/18 10:07	03/14/18 19:18

VOCs Gasoline Range Organics Vapor

Thermox Influent	8C14011-01	Vapor	5	03/14/18 10:34	03/14/18 19:18
Thermox Effluent	8C14011-02	Vapor	5	03/14/18 10:37	03/14/18 19:18
South Trunkline	8C14011-03	Vapor	5	03/14/18 10:11	03/14/18 19:18
East Trunkline	8C14011-04	Vapor	5	03/14/18 10:07	03/14/18 19:18

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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

Thermax Influent
8C14011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.3	ug/L	0.50	0.41	ppmv	0.16
Ethylbenzene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<2.0	ug/L	2.0	<0.55	ppmv	0.55
Toluene	<0.50	ug/L	0.50	<0.13	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	112 %	70-140
Dibromofluoromethane	116 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

Thermax Effluent
8C14011-02 (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	112 %	70-140
Dibromofluoromethane	119 %	70-140
Toluene-d8	106 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

South Trunkline
8C14011-03 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.65	ug/L	0.50	0.20	ppmv	0.16
Ethylbenzene	0.60	ug/L	0.50	0.14	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	109 %	70-140
Dibromofluoromethane	130 %	70-140
Toluene-d8	97.3 %	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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

East Trunkline**8C14011-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	8.0	ug/L	0.50	2.5	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	0.93	ug/L	0.50	0.21	ppmv	0.12
m,p-Xylenes	5.7	ug/L	1.0	1.3	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	115 %	70-140
Dibromofluoromethane	116 %	70-140
Toluene-d8	100 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

Thermox Influent
8C14011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	1500	ug/L	20	370	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		130 %			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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

Thermox Effluent
8C14011-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	43	ug/L	20	11	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		108 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 2
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

South Trunkline**8C14011-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	690	ug/L	20	170	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		123 %			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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Sampled: 03/14/18
Prepared: 03/15/18
Analyzed: 03/15/18

East Trunkline**8C14011-04 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	8600	ug/L	20	2100	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		127 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18
Units: ppmv

Date Sampled:	03/14/18	03/14/18	03/14/18	03/14/18
Date Prepared:	03/15/18	03/15/18	03/15/18	03/15/18
Date Analyzed:	03/15/18	03/15/18	03/15/18	03/15/18
AA ID No:	8C14011-01	8C14011-02	8C14011-03	8C14011-04
Client ID No:	Thermox Influent	Thermox Effluent	South Trunkline	East Trunkline
Matrix:	Vapor	Vapor	Vapor	Vapor
Dilution Factor:	1	1	2	10

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	370	11	180	2100	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18

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

Batch B8C1507 - *** DEFAULT PREP ***

Blank (B8C1507-BLK1)

Prepared & Analyzed: 03/15/18

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

Surrogate: 4-Bromofluorobenzene	57.6		ug/L	50		115 70-140			
Surrogate: Dibromofluoromethane	63.0		ug/L	50		126 70-140			
Surrogate: Toluene-d8	53.6		ug/L	50		107 70-140			

LCS (B8C1507-BS1)

Prepared & Analyzed: 03/15/18

Benzene	21.7	0.50	ug/L	20		108 75-125			
Ethylbenzene	20.9	0.50	ug/L	20		104 75-125			
Methyl-tert-Butyl Ether (MTBE)	31.6	2.0	ug/L	40		79.1 75-125			
Toluene	19.6	0.50	ug/L	20		98.2 75-125			
o-Xylene	19.0	0.50	ug/L	20		95.2 75-125			
m,p-Xylenes	37.8	1.0	ug/L	40		94.6 75-125			

Surrogate: 4-Bromofluorobenzene	54.2		ug/L	50		108 70-140			
Surrogate: Dibromofluoromethane	53.2		ug/L	50		106 70-140			
Surrogate: Toluene-d8	54.0		ug/L	50		108 70-140			

LCS Dup (B8C1507-BSD1)

Prepared & Analyzed: 03/15/18

Benzene	21.0	0.50	ug/L	20		105 75-125	2.95	30	
Ethylbenzene	19.7	0.50	ug/L	20		98.4 75-125	5.92	30	
Methyl-tert-Butyl Ether (MTBE)	34.3	2.0	ug/L	40		85.8 75-125	8.07	30	
Toluene	18.2	0.50	ug/L	20		90.8 75-125	7.78	30	
o-Xylene	18.0	0.50	ug/L	20		90.0 75-125	5.56	30	
m,p-Xylenes	37.2	1.0	ug/L	40		93.0 75-125	1.65	30	

Surrogate: 4-Bromofluorobenzene	55.5		ug/L	50		111 70-140			
Surrogate: Dibromofluoromethane	52.9		ug/L	50		106 70-140			
Surrogate: Toluene-d8	50.9		ug/L	50		102 70-140			

Duplicate (B8C1507-DUP1)

Source: 8C14012-01 Prepared & Analyzed: 03/15/18

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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18

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

Batch B8C1507 - *** DEFAULT PREP ***

Duplicate (B8C1507-DUP1) Continued Source: 8C14012-01 Prepared & Analyzed: 03/15/18

Benzene	<0.50	0.50	ug/L						30	
Ethylbenzene	<0.50	0.50	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L						30	
Toluene	<0.50	0.50	ug/L						30	
o-Xylene	<0.50	0.50	ug/L						30	
m,p-Xylenes	<1.0	1.0	ug/L						30	
Surrogate: 4-Bromofluorobenzene	56.2		ug/L	50		112	70-140			
Surrogate: Dibromofluoromethane	63.6		ug/L	50		127	70-140			
Surrogate: Toluene-d8	50.6		ug/L	50		101	70-140			

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

Batch B8C1524 - *** DEFAULT PREP ***

Blank (B8C1524-BLK1) Prepared & Analyzed: 03/15/18

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	59.2		ug/L	50		118	70-130			

LCS (B8C1524-BS1) Prepared & Analyzed: 03/15/18

Gasoline Range Organics (GRO)	432	20	ug/L	500		86.4	75-125			
Surrogate: a,a,a-Trifluorotoluene	58.0		ug/L	50		116	70-130			

LCS Dup (B8C1524-BSD1) Prepared & Analyzed: 03/15/18

Gasoline Range Organics (GRO)	470	20	ug/L	500		94.1	75-125	8.52	30	
Surrogate: a,a,a-Trifluorotoluene	64.5		ug/L	50		129	70-130			

Duplicate (B8C1524-DUP1) Source: 8C14011-01 Prepared & Analyzed: 03/15/18

Gasoline Range Organics (GRO)	1420	20	ug/L		1480			4.28	30	
Surrogate: a,a,a-Trifluorotoluene	64.7		ug/L	50		129	70-130			

GRO in Vapor as Hexane - Quality Control

Batch B8C1524 - *** DEFAULT PREP ***

Blank (B8C1524-BLK1) Prepared & Analyzed: 03/15/18

GRO as Hexane	<5.7	5.7	ppmv							
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Duplicate (B8C1524-DUP1) Source: 8C14011-01 Prepared & Analyzed: 03/15/18

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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Notes
GRO in Vapor as Hexane - Quality Control										
<i>Batch B8C1524 - *** DEFAULT PREP ***</i>										
Duplicate (B8C1524-DUP1) Continued Source: 8C14011-01 Prepared & Analyzed: 03/15/18										
GRO as Hexane	352	5.7	ppmv		369			4.52	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: A5332491
Date Received: 03/14/18
Date Reported: 03/24/18

Special Notes

Viorel Vasile
Operations Manager



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

April 03, 2018

Neil Irish

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

**Re : DFSP Norwalk GWETS NPDES Monthly / 04-NDLA-013
A5332501 / 8C20020**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/20/18 17:18 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
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8260B TPHGASOLINEBTEXOXY

Surge Tank	8C20020-01	Water	5	03/20/18 08:35	03/20/18 17:18
After GAC-1	8C20020-02	Water	5	03/20/18 08:31	03/20/18 17:18
After GAC-2	8C20020-03	Water	5	03/20/18 08:26	03/20/18 17:18

Arsenic Total EPA 200.7

Surge Tank	8C20020-01	Water	5	03/20/18 08:35	03/20/18 17:18
After Zeolite Bed-1	8C20020-04	Water	5	03/20/18 08:20	03/20/18 17:18
After Zeolite Bed-2	8C20020-05	Water	5	03/20/18 08:19	03/20/18 17:18

Copper Dissolved EPA 200.7

Z-AAL-FE_Influent	8C20020-06	Water	5	03/20/18 08:15	03/20/18 17:18
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Copper Total EPA 200.7

Z-AAL-FE_Influent	8C20020-06	Water	5	03/20/18 08:15	03/20/18 17:18
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Diesel Range Organics 8015M

Surge Tank	8C20020-01	Water	5	03/20/18 08:35	03/20/18 17:18
After GAC-1	8C20020-02	Water	5	03/20/18 08:31	03/20/18 17:18
After GAC-2	8C20020-03	Water	5	03/20/18 08:26	03/20/18 17:18

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: TPHG/BTEX/Oxygenates by GC/MS

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18
Units: ug/L

Date Sampled:	03/20/18	03/20/18	03/20/18		
Date Prepared:	03/27/18	03/27/18	03/27/18		
Date Analyzed:	03/27/18	03/28/18	03/28/18		
AA ID No:	8C20020-01	8C20020-02	8C20020-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

8260B TPHGASOLINEBTEXOXY (EPA 8260B)

tert-Amyl Methyl Ether (TAME)	<0.30	<0.30	<0.30	0.30	2.0
Benzene	4.4	<0.20	<0.20	0.20	0.50
tert-Butyl alcohol (TBA)	<7.0	<7.0	<7.0	7.0	10
Diisopropyl ether (DIPE)	<0.50	<0.50	<0.50	0.50	2.0
Ethylbenzene	<0.20	<0.20	<0.20	0.20	0.50
Ethyl-tert-Butyl Ether (ETBE)	<0.40	<0.40	<0.40	0.40	2.0
Gasoline Range Organics (GRO)	<40	<40	<40	40	100
Methyl-tert-Butyl Ether (MTBE)	0.47 J	<0.40	0.42 J	0.40	2.0
Toluene	<0.30	<0.30	<0.30	0.30	0.50
o-Xylene	<0.30	<0.30	<0.30	0.30	0.50
m,p-Xylenes	<0.40	<0.40	<0.40	0.40	1.0

Surrogates

				%REC Limits
4-Bromofluorobenzene	124%	129%	125%	70-140
Dibromofluoromethane	113%	116%	113%	70-140
Toluene-d8	102%	112%	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 GWETS NPDES Monthly
Method: Diesel Range Organics by GC/FID

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18
Units: ug/L

Date Sampled:	03/20/18	03/20/18	03/20/18		
Date Prepared:	03/26/18	03/26/18	03/26/18		
Date Analyzed:	03/26/18	03/26/18	03/26/18		
AA ID No:	8C20020-01	8C20020-02	8C20020-03		
Client ID No:	Surge Tank	After GAC-1	After GAC-2		
Matrix:	Water	Water	Water		
Dilution Factor:	1	1	1	MDL	MRL

Diesel Range Organics 8015M (EPA 8015M)

Diesel Range Organics as Diesel	<60	<60	<60	60	100
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Surrogates

o-Terphenyl	76%	63%	70%	<u>%REC Limits</u>	50-150
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH) **AA Project No:** A5332501
Project No: 04-NDLA-013 **Date Received:** 03/20/18
Project Name: DFSP Norwalk GWETS NPDES Monthly **Date Reported:** 04/03/18
Method: Dissolved Metals by ICP Atomic Emission Spectroscopy

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Copper Dissolved EPA 200.7 (EPA 200.7)</u>									
8C20020-06	Z-AAL-FE_Influent	03/20/18	03/27/18	03/27/18	1	<0.014	mg/L	0.014	0.014

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 04-NDLA-013
Project Name: DFSP Norwalk GWETS NPDES Monthly
Method: Total Metals by ICP Atomic Emission Spectroscopy

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

AA I.D. No.	Client I.D. No.	Sampled	Prepared	Analyzed	Dilution	Result	Units	MDL	MRL
<u>Arsenic Total EPA 200.7 (EPA 200.7)</u>									
8C20020-01	Surge Tank	03/20/18	03/27/18	03/27/18	1	0.023	mg/L	0.006	0.007
8C20020-04	After Zeolite Bed-1	03/20/18	03/27/18	03/27/18	1	<0.0060	mg/L	0.006	0.007
8C20020-05	After Zeolite Bed-2	03/20/18	03/27/18	03/27/18	1	<0.0060	mg/L	0.006	0.007
<u>Copper Total EPA 200.7 (EPA 200.7)</u>									
8C20020-06	Z-AAL-FE_Influent	03/20/18	03/27/18	03/27/18	1	<0.014	mg/L	0.014	0.014

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8C2727 - EPA 5030B

Blank (B8C2727-BLK1)

Prepared & Analyzed: 03/27/18

tert-Amyl Methyl Ether (TAME)	<0.30	0.30	ug/L							
Benzene	<0.20	0.20	ug/L							
tert-Butyl alcohol (TBA)	<7.0	7.0	ug/L							
Diisopropyl ether (DIPE)	<0.50	0.50	ug/L							
Ethylbenzene	<0.20	0.20	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<0.40	0.40	ug/L							
Gasoline Range Organics (GRO)	<40	40	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.40	0.40	ug/L							
Toluene	<0.30	0.30	ug/L							
o-Xylene	<0.30	0.30	ug/L							
m,p-Xylenes	<0.40	0.40	ug/L							

Surrogate: 4-Bromofluorobenzene	63.3		ug/L	50		127	70-140			
Surrogate: Dibromofluoromethane	46.9		ug/L	50		93.8	70-140			
Surrogate: Toluene-d8	55.7		ug/L	50		111	70-140			

LCS (B8C2727-BS1)

Prepared & Analyzed: 03/27/18

tert-Amyl Methyl Ether (TAME)	16.7	0.30	ug/L	20		83.6	70-130			
Benzene	17.7	0.20	ug/L	20		88.4	75-125			
tert-Butyl alcohol (TBA)	88.7	7.0	ug/L	100		88.7	70-130			
Diisopropyl ether (DIPE)	19.8	0.50	ug/L	20		98.9	70-130			
Ethylbenzene	21.4	0.20	ug/L	20		107	75-125			
Ethyl-tert-Butyl Ether (ETBE)	19.1	0.40	ug/L	20		95.4	70-130			
Gasoline Range Organics (GRO)	488	40	ug/L	500		97.6	70-130			
Methyl-tert-Butyl Ether (MTBE)	33.9	0.40	ug/L	40		84.6	70-135			
Toluene	21.7	0.30	ug/L	20		109	75-125			
o-Xylene	20.6	0.30	ug/L	20		103	75-125			
m,p-Xylenes	46.4	0.40	ug/L	40		116	70-130			

Surrogate: 4-Bromofluorobenzene	54.7		ug/L	50		109	70-140			
Surrogate: Dibromofluoromethane	46.7		ug/L	50		93.4	70-140			
Surrogate: Toluene-d8	53.1		ug/L	50		106	70-140			

Matrix Spike (B8C2727-MS1)

Source: 8C16004-01 Prepared & Analyzed: 03/27/18

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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TPHG/BTEX/Oxygenates by GC/MS - Quality Control

Batch B8C2727 - EPA 5030B

Matrix Spike (B8C2727-MS1) Continued Source: 8C16004-01 Prepared & Analyzed: 03/27/18

tert-Amyl Methyl Ether (TAME)	21.0	0.30	ug/L	20	105	70-130				
Benzene	17.8	0.20	ug/L	20	88.8	70-130				
tert-Butyl alcohol (TBA)	102	7.0	ug/L	100	102	70-130				
Diisopropyl ether (DIPE)	22.1	0.50	ug/L	20	111	70-130				
Ethylbenzene	18.8	0.20	ug/L	20	93.8	70-130				
Ethyl-tert-Butyl Ether (ETBE)	22.9	0.40	ug/L	20	114	70-130				
Methyl-tert-Butyl Ether (MTBE)	43.8	0.40	ug/L	40	110	70-130				
Toluene	19.1	0.30	ug/L	20	95.7	70-130				
o-Xylene	19.7	0.30	ug/L	20	98.7	70-130				
m,p-Xylenes	42.2	0.40	ug/L	40	106	70-130				

Surrogate: 4-Bromofluorobenzene 54.3 ug/L 50 109 70-140

Surrogate: Dibromofluoromethane 53.0 ug/L 50 106 70-140

Surrogate: Toluene-d8 50.4 ug/L 50 101 70-140

Matrix Spike Dup (B8C2727-MSD1) Source: 8C16004-01 Prepared & Analyzed: 03/27/18

tert-Amyl Methyl Ether (TAME)	20.3	0.30	ug/L	20	101	70-130	3.58	30		
Benzene	18.1	0.20	ug/L	20	90.4	70-130	1.79	30		
tert-Butyl alcohol (TBA)	93.5	7.0	ug/L	100	93.5	70-130	9.19	30		
Diisopropyl ether (DIPE)	22.3	0.50	ug/L	20	111	70-130	0.766	30		
Ethylbenzene	18.5	0.20	ug/L	20	92.7	70-130	1.23	30		
Ethyl-tert-Butyl Ether (ETBE)	22.1	0.40	ug/L	20	110	70-130	3.43	30		
Methyl-tert-Butyl Ether (MTBE)	41.6	0.40	ug/L	40	104	70-130	5.15	30		
Toluene	19.2	0.30	ug/L	20	95.8	70-130	0.157	30		
o-Xylene	19.0	0.30	ug/L	20	95.2	70-130	3.56	30		
m,p-Xylenes	40.5	0.40	ug/L	40	101	70-130	4.18	30		

Surrogate: 4-Bromofluorobenzene 53.9 ug/L 50 108 70-140

Surrogate: Dibromofluoromethane 54.4 ug/L 50 109 70-140

Surrogate: Toluene-d8 51.9 ug/L 50 104 70-140

Diesel Range Organics by GC/FID - Quality Control

Batch B8C2614 - EPA 3510C

Blank (B8C2614-BLK1)

Prepared & Analyzed: 03/26/18

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
Diesel Range Organics by GC/FID - Quality Control										
<i>Batch B8C2614 - EPA 3510C</i>										
Blank (B8C2614-BLK1) Continued				Prepared & Analyzed: 03/26/18						
Diesel Range Organics as Diesel	<60	60	ug/L							
Surrogate: o-Terphenyl	27.4		ug/L	40	68.4	50-150				
LCS (B8C2614-BS1)				Prepared & Analyzed: 03/26/18						
Diesel Range Organics as Diesel	724	60	ug/L	800	90.5	75-125			30	
Surrogate: o-Terphenyl	40.0		ug/L	40	99.9	50-150				
LCS Dup (B8C2614-BSD1)				Prepared & Analyzed: 03/26/18						
Diesel Range Organics as Diesel	641	60	ug/L	800	80.1	75-125		12.1	30	
Surrogate: o-Terphenyl	34.7		ug/L	40	86.7	50-150				
Dissolved Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8C2712 - EPA 3010A</i>										
Blank (B8C2712-BLK1)				Prepared & Analyzed: 03/27/18						
Copper	<0.014	0.014	mg/L							
LCS (B8C2712-BS1)				Prepared & Analyzed: 03/27/18						
Copper	0.920	0.014	mg/L	1.0	92.0	80-120			20	
LCS Dup (B8C2712-BSD1)				Prepared & Analyzed: 03/27/18						
Copper	0.924	0.014	mg/L	1.0	92.4	80-120		0.488	20	
Duplicate (B8C2712-DUP1)				Source: 8C20019-01 Prepared & Analyzed: 03/27/18						
Copper	<0.014	0.014	mg/L						30	
Matrix Spike (B8C2712-MS1)				Source: 8C20020-06 Prepared & Analyzed: 03/27/18						
Copper	0.990	0.014	mg/L	1.0	<0.014	99.0	75-125		20	
Matrix Spike Dup (B8C2712-MSD1)				Source: 8C20020-06 Prepared & Analyzed: 03/27/18						
Copper	0.999	0.014	mg/L	1.0	<0.014	99.9	75-125	0.925	20	
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8C2711 - EPA 3010A</i>										
Blank (B8C2711-BLK1)				Prepared & Analyzed: 03/27/18						
Arsenic	<0.0060	0.0060	mg/L							
LCS (B8C2711-BS1)				Prepared & Analyzed: 03/27/18						
Arsenic	0.997	0.0060	mg/L	1.0	99.7	80-120			20	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

Analyte	Reporting Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Total Metals by ICP Atomic Emission Spectroscopy - Quality Control										
<i>Batch B8C2711 - EPA 3010A</i>										
LCS Dup (B8C2711-BSD1) Prepared & Analyzed: 03/27/18										
Arsenic	1.00	0.0060	mg/L	1.0		100	80-120	0.220	20	
<i>Batch B8C2712 - EPA 3010A</i>										
Blank (B8C2712-BLK1) Prepared & Analyzed: 03/27/18										
Copper	<0.014	0.014	mg/L							
LCS (B8C2712-BS1) Prepared & Analyzed: 03/27/18										
Copper	0.920	0.014	mg/L	1.0		92.0	80-120		20	
LCS Dup (B8C2712-BSD1) Prepared & Analyzed: 03/27/18										
Copper	0.924	0.014	mg/L	1.0		92.4	80-120	0.488	20	
Duplicate (B8C2712-DUP1) Source: 8C20019-01 Prepared & Analyzed: 03/27/18										
Copper	<0.014	0.014	mg/L						30	
Matrix Spike (B8C2712-MS1) Source: 8C20020-06 Prepared & Analyzed: 03/27/18										
Copper	0.978	0.014	mg/L	1.0	<0.014	97.8	75-125		20	
Matrix Spike Dup (B8C2712-MSD1) Source: 8C20020-06 Prepared & Analyzed: 03/27/18										
Copper	0.978	0.014	mg/L	1.0	<0.014	97.8	75-125	0.00	20	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332501
Date Received: 03/20/18
Date Reported: 04/03/18

Special Notes

J : Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Viorel Vasile
Operations Manager



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

April 05, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332513 / 8C28016**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/28/18 16:00 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18

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

HW-1	8C28016-01	Vapor	5	03/28/18 09:01	03/28/18 16:00
HW-5	8C28016-02	Vapor	5	03/28/18 08:27	03/28/18 16:00
HW-7	8C28016-03	Vapor	5	03/28/18 08:24	03/28/18 16:00

VOCs BTEX/MTBE Vapor GC/MS

HW-1	8C28016-01	Vapor	5	03/28/18 09:01	03/28/18 16:00
HW-5	8C28016-02	Vapor	5	03/28/18 08:27	03/28/18 16:00
HW-7	8C28016-03	Vapor	5	03/28/18 08:24	03/28/18 16:00

VOCs Gasoline Range Organics Vapor

HW-1	8C28016-01	Vapor	5	03/28/18 09:01	03/28/18 16:00
HW-5	8C28016-02	Vapor	5	03/28/18 08:27	03/28/18 16:00
HW-7	8C28016-03	Vapor	5	03/28/18 08:24	03/28/18 16:00

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: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/30/18
Analyzed: 03/30/18

HW-1**8C28016-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.1	ug/L	0.50	0.34	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	95.5 %	70-140
Dibromofluoromethane	120 %	70-140
Toluene-d8	89.5 %	70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/30/18
Analyzed: 03/30/18

HW-5**8C28016-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	2.0	ug/L	0.50	0.63	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	96.8 %	70-140
Dibromofluoromethane	118 %	70-140
Toluene-d8	93.0 %	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: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/30/18
Analyzed: 03/30/18

HW-7**8C28016-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.9	ug/L	0.50	0.59	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	0.79	ug/L	0.50	0.21	ppmv	0.13
o-Xylene	<0.50	ug/L	0.50	<0.12	ppmv	0.12
m,p-Xylenes	<1.0	ug/L	1.0	<0.23	ppmv	0.23

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	96.7 %	70-140
Dibromofluoromethane	116 %	70-140
Toluene-d8	91.9 %	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: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/29/18
Analyzed: 03/29/18

HW-1**8C28016-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	730	ug/L	20	180	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		129 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/29/18
Analyzed: 03/29/18

HW-5**8C28016-02 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	560	ug/L	20	140	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		123 %			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: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/29/18
Analyzed: 03/29/18

HW-7**8C28016-03 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	760	ug/L	20	190	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		127 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18
Units: ppmv

Date Sampled:	03/28/18	03/28/18	03/28/18	
Date Prepared:	03/29/18	03/29/18	03/29/18	
Date Analyzed:	03/29/18	03/29/18	03/29/18	
AA ID No:	8C28016-01	8C28016-02	8C28016-03	
Client ID No:	HW-1	HW-5	HW-7	
Matrix:	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	180	140	190	5.7
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Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B8C2910 - *** DEFAULT PREP ***</i>									
Blank (B8C2910-BLK1)					Prepared & Analyzed: 03/30/18				
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>	69.6		ug/L	50		139 70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.4		ug/L	50		111 70-140			
<i>Surrogate: Toluene-d8</i>	55.7		ug/L	50		111 70-140			
LCS (B8C2910-BS1)					Prepared & Analyzed: 03/30/18				
Benzene	19.0	0.50	ug/L	20		94.8 75-125			
Ethylbenzene	21.3	0.50	ug/L	20		106 75-125			
Methyl-tert-Butyl Ether (MTBE)	46.6	2.0	ug/L	40		116 75-125			
Toluene	22.4	0.50	ug/L	20		112 75-125			
o-Xylene	21.4	0.50	ug/L	20		107 75-125			
m,p-Xylenes	44.4	1.0	ug/L	40		111 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	64.0		ug/L	50		128 70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.2		ug/L	50		114 70-140			
<i>Surrogate: Toluene-d8</i>	55.6		ug/L	50		111 70-140			
LCS Dup (B8C2910-BSD1)					Prepared & Analyzed: 03/30/18				
Benzene	18.3	0.50	ug/L	20		91.4 75-125	3.71	30	
Ethylbenzene	19.5	0.50	ug/L	20		97.4 75-125	8.69	30	
Methyl-tert-Butyl Ether (MTBE)	43.5	2.0	ug/L	40		109 75-125	6.89	30	
Toluene	20.7	0.50	ug/L	20		103 75-125	8.21	30	
o-Xylene	20.0	0.50	ug/L	20		100 75-125	6.61	30	
m,p-Xylenes	41.6	1.0	ug/L	40		104 75-125	6.60	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	65.0		ug/L	50		130 70-140			
<i>Surrogate: Dibromofluoromethane</i>	58.9		ug/L	50		118 70-140			
<i>Surrogate: Toluene-d8</i>	54.8		ug/L	50		110 70-140			

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

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Gasoline Range Organics in Vapor by GC/FID - Quality Control

*Batch B8C2914 - *** DEFAULT PREP ****

Blank (B8C2914-BLK1)				Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	60.4		ug/L	50		121	70-130			
LCS (B8C2914-BS1)				Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	483	20	ug/L	500		96.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	63.4		ug/L	50		127	70-130			
LCS Dup (B8C2914-BSD1)				Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	489	20	ug/L	500		97.9	75-125	1.37	30	
Surrogate: a,a,a-Trifluorotoluene	60.9		ug/L	50		122	70-130			
Duplicate (B8C2914-DUP1)				Source: 8C28016-01 Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	694	20	ug/L		727			4.64	30	
Surrogate: a,a,a-Trifluorotoluene	64.3		ug/L	50		129	70-130			

GRO in Vapor as Hexane - Quality Control

*Batch B8C2914 - *** DEFAULT PREP ****

Blank (B8C2914-BLK1)				Prepared & Analyzed: 03/29/18						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B8C2914-DUP1)				Source: 8C28016-01 Prepared & Analyzed: 03/29/18						
GRO as Hexane	175	5.7	ppmv		183			4.72	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: A5332513
Date Received: 03/28/18
Date Reported: 04/05/18

Special Notes

Viorel Vasile
Operations Manager



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

April 05, 2018

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 04-NDLA-013
A5332511 / 8C28014**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 03/28/18 15:59 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18

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

Influent	8C28014-01	Vapor	5	03/28/18 08:17	03/28/18 15:59
Effluent	8C28014-02	Vapor	5	03/28/18 08:14	03/28/18 15:59

VOCs BTEX/MTBE Vapor GC/MS

Influent	8C28014-01	Vapor	5	03/28/18 08:17	03/28/18 15:59
Effluent	8C28014-02	Vapor	5	03/28/18 08:14	03/28/18 15:59

VOCs Gasoline Range Organics Vapor

Influent	8C28014-01	Vapor	5	03/28/18 08:17	03/28/18 15:59
Effluent	8C28014-02	Vapor	5	03/28/18 08:14	03/28/18 15:59

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: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/30/18
Analyzed: 03/30/18

Influent**8C28014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	1.9	ug/L	0.50	0.59	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
Dibromofluoromethane
Toluene-d8

98.0 %
132 %
92.0 %

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/30/18
Analyzed: 03/30/18

Effluent**8C28014-02 (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
Dibromofluoromethane
Toluene-d8

102 %
128 %
94.4 %

70-140
70-140
70-140

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/29/18
Analyzed: 03/29/18

Influent**8C28014-01 (Vapor)**

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	670	ug/L	20	160	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		129 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18
Sampled: 03/28/18
Prepared: 03/29/18
Analyzed: 03/29/18

Effluent**8C28014-02 (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		124 %			70-130	

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18
Units: ppmv

Date Sampled:	03/28/18	03/28/18	
Date Prepared:	03/29/18	03/29/18	
Date Analyzed:	03/29/18	03/29/18	
AA ID No:	8C28014-01	8C28014-02	
Client ID No:	Influent	Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

GRO in Vapor as Hexane (EPA 8015M)

GRO as Hexane	170	<5.7	5.7
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control									
<i>Batch B8C2910 - *** DEFAULT PREP ***</i>									
Blank (B8C2910-BLK1)					Prepared & Analyzed: 03/30/18				
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>	69.6		ug/L	50		139 70-140			
<i>Surrogate: Dibromofluoromethane</i>	55.4		ug/L	50		111 70-140			
<i>Surrogate: Toluene-d8</i>	55.7		ug/L	50		111 70-140			
LCS (B8C2910-BS1)					Prepared & Analyzed: 03/30/18				
Benzene	19.0	0.50	ug/L	20		94.8 75-125			
Ethylbenzene	21.3	0.50	ug/L	20		106 75-125			
Methyl-tert-Butyl Ether (MTBE)	46.6	2.0	ug/L	40		116 75-125			
Toluene	22.4	0.50	ug/L	20		112 75-125			
o-Xylene	21.4	0.50	ug/L	20		107 75-125			
m,p-Xylenes	44.4	1.0	ug/L	40		111 75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	64.0		ug/L	50		128 70-140			
<i>Surrogate: Dibromofluoromethane</i>	57.2		ug/L	50		114 70-140			
<i>Surrogate: Toluene-d8</i>	55.6		ug/L	50		111 70-140			
LCS Dup (B8C2910-BSD1)					Prepared & Analyzed: 03/30/18				
Benzene	18.3	0.50	ug/L	20		91.4 75-125	3.71	30	
Ethylbenzene	19.5	0.50	ug/L	20		97.4 75-125	8.69	30	
Methyl-tert-Butyl Ether (MTBE)	43.5	2.0	ug/L	40		109 75-125	6.89	30	
Toluene	20.7	0.50	ug/L	20		103 75-125	8.21	30	
o-Xylene	20.0	0.50	ug/L	20		100 75-125	6.61	30	
m,p-Xylenes	41.6	1.0	ug/L	40		104 75-125	6.60	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	65.0		ug/L	50		130 70-140			
<i>Surrogate: Dibromofluoromethane</i>	58.9		ug/L	50		118 70-140			
<i>Surrogate: Toluene-d8</i>	54.8		ug/L	50		110 70-140			

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

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

AA Project No: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit	Notes
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Gasoline Range Organics in Vapor by GC/FID - Quality Control

*Batch B8C2914 - *** DEFAULT PREP ****

Blank (B8C2914-BLK1)				Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	60.4		ug/L	50		121	70-130			
LCS (B8C2914-BS1)				Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	483	20	ug/L	500		96.5	75-125			
Surrogate: a,a,a-Trifluorotoluene	63.4		ug/L	50		127	70-130			
LCS Dup (B8C2914-BSD1)				Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	489	20	ug/L	500		97.9	75-125	1.37	30	
Surrogate: a,a,a-Trifluorotoluene	60.9		ug/L	50		122	70-130			
Duplicate (B8C2914-DUP1)				Source: 8C28016-01 Prepared & Analyzed: 03/29/18						
Gasoline Range Organics (GRO)	694	20	ug/L		727			4.64	30	
Surrogate: a,a,a-Trifluorotoluene	64.3		ug/L	50		129	70-130			

GRO in Vapor as Hexane - Quality Control

*Batch B8C2914 - *** DEFAULT PREP ****

Blank (B8C2914-BLK1)				Prepared & Analyzed: 03/29/18						
GRO as Hexane	<5.7	5.7	ppmv							
Duplicate (B8C2914-DUP1)				Source: 8C28016-01 Prepared & Analyzed: 03/29/18						
GRO as Hexane	175	5.7	ppmv		183			4.72	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: A5332511
Date Received: 03/28/18
Date Reported: 04/05/18

Special Notes

Viorel Vasile
Operations Manager

APPENDIX B
WASTE MANIFEST

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA8971524360	2. Page 1 of 1	3. Emergency Response Phone (310) 241-2833	4. Manifest Tracking Number 009712822 FLE		
5. Generator's Name and Mailing Address Defense Logistics Agency Installation Support for Energy 3171 North Gaffay St. San Pedro, CA 90731 Attn: Todd Williams (310) 241-2834				Generator's Site Address (if different than mailing address) DFSP Norwalk 15906 Norwalk Blvd. Norwalk, CA 90650			
6. Transporter 1 Company Name Nieto and Sons Trucking, Inc.				U.S. EPA ID Number CA060016116			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address DeMenno Kordon (Attn: Hannah) 2000 N. Alameda Street Compton, CA 90222 Facility's Phone: (310) 537-7100				U.S. EPA ID Number CA060013952			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN1993, Flammable Liquid, n.o.s., 3, P011 (contains jet fuel)	001	T.T.	750	0	134	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information ERCA 420 / Jet Fuels & Groundwater SOLIAPEX Contact: Glenn Androska (714) 606-1089				WEAR ALL APPROPRIATE PROTECTIVE CLOTHING RESI PO# 290160			
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Todd Williams				Signature 		Month Day Year 01 11 18	
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 Richard D...				Signature 		Month Day Year 01 11 18	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number			
Facility's Phone:				Month Day Year			
18c. Signature of Alternate Facility (or Generator)				Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H039		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 19a				Signature 		Month Day Year 01 11 18	

15300202
1733062

DeMenno Kerdoon
2000 N Alameda Street
Compton, CA 90222

Ticket: 247281
Date: 1/11/2018
Time: 14:21:43 - 18:56:58

Hauler: NIETO & SONS-NIE001
Truck: 503
Trailer:

Driver: RICHARD

Customer: BELSHIRE ENVIRONMENTAL SVC.INC-BEL001

Product: OILY WATER

Gross: 32740 lb In Scale 1
Tare: 26740 lb Out Scale 1
Net: 6000 lb
Tons: 3.00

Barrels: 17.24 724 / 7

Wash Out: Cold
Gallons: 40
Minutes: 10

PO: 290168

Load Gallons: 750

Tank: 2002
Tank 2: NA
Category: C-1
Profile: 429220
W/P: Yes

RECEIVING

Lab Analysis

BS&W: 94.00	API Temp: 68.00	Halides: <100
Gravity: 10.60	Sediment: 1.00	Actual Halides: 0
pH: 6.50	Flash Point: 0.00	Comment:

Deputy Weighmaster In: Juan Arreguin
Deputy Weighmaster Out: Rudy Sanchez

Manifest/BOL

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