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<u>Report Type:</u>	Remedial Progress Report
<u>Report Date:</u>	2/14/2024
<u>Facility Global ID:</u>	SLT43185183
<u>Facility Name:</u>	Norwalk, Fuel Terminal DFSP - DOD - NORWALK DFSP
<u>File Name:</u>	Norwalk Remediation Status Report - Fourth Quarter 2023.pdf
<u>Organization Name:</u>	The Source Group, Inc.(Subsidiary of Apex Companies, LLC)
<u>Username:</u>	SIGNAL HILL
<u>IP Address:</u>	172.117.126.198
<u>Submittal Date/Time:</u>	2/14/2024 2:55:35 PM
<u>Confirmation Number:</u>	4803283333



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February 14, 2024

Mr. Paul Cho, P.G.
Engineering Geologist, Site Cleanup V
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Los Angeles Regional Water Quality Control Board
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Los Angeles, California, 90013

Dear Mr. Cho:

Enclosed is one electronic copy of the *Remediation Status Report – Fourth Quarter 2023* for the Defense Fuel Support Point Norwalk (SCP NO. 0286A, SITE ID No. 16638), located at 15306 Norwalk Boulevard, Norwalk, California.

If you have any questions or require additional information concerning this document, please contact me at (571) 634-2828 or brian.schick@dla.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Schick", is positioned above the typed name.

Brian D. Schick
Acting Restoration Branch Chief

Enclosure
As stated

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

REMEDIATION STATUS REPORT – FOURTH QUARTER 2023

**DEFENSE FUEL SUPPORT POINT NORWALK
15306 Norwalk Boulevard
Norwalk, California**

SGI Project No. 091-NOR-001
DLA Contract No. SPE603-20-D-5008, CLIN 0001

Prepared For:



Defense Logistics Agency - Energy
Environmental Division Restoration Branch
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For Submittal To:

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TABLE OF CONTENTS

	PAGE
LIST OF FIGURES	ii
LIST OF TABLES	ii
LIST OF APPENDICES	iii
LIST OF ACRONYMS	iv
1.0 INTRODUCTION	1-1
1.1 Contaminants of Concern	1-1
1.2 Remediation Technologies.....	1-1
1.2.1 Groundwater Extraction and Treatment System	1-2
1.2.2 Biosparge System.....	1-2
1.2.3 Soil Vapor Extraction Systems	1-3
1.2.3.1 Carbon Vapor Extraction System	1-4
1.2.3.2 Thermal Oxidizer Vapor Extraction System	1-4
1.2.4 LNAPL Removal	1-5
1.2.5 Above Ground Soil Treatment.....	1-5
1.2.6 Soil Management.....	1-6
2.0 OPERATIONS, MAINTENANCE AND MONITORING	2-1
2.1 Groundwater Extraction and Treatment System	2-1
2.2 Soil Vapor Extraction Systems.....	2-1
2.3 Biosparge System	2-2
2.4 LNAPL Removal Via Bailing, Skimming and Absorbent Socks	2-3
2.5 LNAPL Removal Via Product Recovery System.....	2-3
3.0 SUMMARY OF REMEDIATION PROGRESS	3-1
3.1 Groundwater Extraction and Treatment System	3-1
3.2 Soil Vapor Extraction Systems.....	3-1
3.3 Biosparge System	3-2
3.4 LNAPL Gauging and Removal.....	3-3
3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks	3-3
3.4.2 LNAPL Removal Via Product Recovery System	3-3
4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION	4-1
5.0 PLANNED FOURTH QUARTER 2023 ACTIVITIES	5-1
6.0 LIMITATIONS	6-1
7.0 REFERENCES	7-1

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Map Showing All Well and Piping Locations
Figure 3	Groundwater Elevations and Measurable Liquid-Phase Hydrocarbons in Uppermost Groundwater Zone May 2023

LIST OF TABLES

Table 1	Remediation Well Summary
Table 2A	Groundwater Extraction and Treatment System Operations Summary – July
Table 2B	Groundwater Extraction and Treatment System Operations Summary – August
Table 2C	Groundwater Extraction and Treatment System Operations Summary – September
Table 3A	Carbon Vapor Extraction System Operations Summary – July
Table 3B	Carbon Vapor Extraction System Operations Summary – August
Table 3C	Carbon Vapor Extraction System Operations Summary – September
Table 4	Summary of Analytical Vapor Sampling Results - Influent Carbon VES
Table 5A	Thermal Oxidizer Vapor Extraction System Operations Summary – July
Table 5B	Thermal Oxidizer Vapor Extraction System Operations Summary – August
Table 5C	Thermal Oxidizer Vapor Extraction System Operations Summary – September
Table 6	Summary of Analytical Vapor Sampling Results - Influent Thermal Oxidizer VES
Table 7A	Summary of LNAPL Removal in Well GMW-62 – Fourth quarter 2023
Table 7B	Summary of LNAPL Removal in Well GMW-68 – Fourth Quarter 2023
Table 7C	Summary of LNAPL Removal in Well GMW-7 – Fourth Quarter 2023
Table 7D	Summary of LNAPL Removal in Well TF-19 – Fourth Quarter 2023
Table 7E	Summary of LNAPL Removal in Well TFR-9 – Fourth Quarter 2023
Table 7F	Summary of LNAPL Removal in Well GMW-18 – Fourth Quarter 2023
Table 7G	Summary of LNAPL Removal in Well TFR-12 – Fourth Quarter 2023
Table 7H	Summary of LNAPL Removal in Well TFR-14 – Fourth Quarter 2023
Table 7I	Summary of LNAPL Removal in Well TF-15 – Fourth Quarter 2023
Table 7J	Summary of LNAPL Removal in Well TFR-15 – Fourth Quarter 2023
Table 7K	Summary of LNAPL Removal in Well TF-16 – Fourth Quarter 2023
Table 7L	Summary of LNAPL Removal in Well GW-14R – Fourth Quarter 2023
Table 7M	Summary of LNAPL Removal in Well TFR-18 – Fourth Quarter 2023
Table 7N	Summary of LNAPL Removal in Well TFR-22 – Fourth Quarter 2023
Table 7O	Summary of LNAPL Removal in Well TFR-24 – Fourth Quarter 2023
Table 7P	Summary of LNAPL Removal in Well TFR-29 – Fourth Quarter 2023
Table 7Q	Summary of LNAPL Removal in Well TFR-33 – Fourth Quarter 2023

Table 7R	Summary of LNAPL Removal in Well RTF-18-E – Fourth Quarter 2023
Table 7S	Summary of LNAPL Removal in Well RTF-18-NW – Fourth Quarter 2023
Table 7T	Summary of LNAPL Removal in Well RTF-18-N – Fourth Quarter 2023
Table 7U	Summary of LNAPL Removal in Well TF-18 – Fourth Quarter 2023
Table 7V	Summary of LNAPL Removal in Well RTF-18-NNW – Fourth Quarter 2023
Table 7W	Summary of LNAPL Removal in Well RTF-18-W – Fourth Quarter 2023
Table 8	Summary of Analytical Groundwater Sampling Results - Influent GWETS
Table 9A	Summary of Field Vapor Readings – Former Tank Farm Horizontal Wells
Table 9B	Summary of Field Vapor Readings – Central Area Vertical Wells
Table 9C	Summary of Field Vapor Readings – Eastern Area Vertical Wells
Table 9D	Summary of Field Vapor Readings – Southern Area Vertical Wells
Table 10	Summary of Analytical Vapor Sampling Results - Individual Wells
Table 11A	Biosparge System Operations Summary – October
Table 11B	Biosparge System Operations Summary – November
Table 11C	Biosparge System Operations Summary – December

LIST OF APPENDICES

Appendix A	Laboratory Analytical Reports and Chain-of-Custody Documents
Appendix B	LNAPL Hazardous Waste Manifests
Appendix C	Dissolved TPH Concentration Trends

LIST OF ACRONYMS

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

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

1.0 INTRODUCTION

On behalf of our client, Defense Logistics Agency - Energy (DLA), The Source Group, Inc., a subsidiary of Apex Companies, LLC (SGI/Apex) presents this report to summarize remediation system operations during the Fourth Quarter 2023 (October – December) operating period for the Defense Fuel Support Point (DFSP) Norwalk facility, located at 15306 Norwalk Boulevard, Norwalk, California (Site; Figures 1 and 2).

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

1.1 Contaminants of Concern

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

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

1.2 Remediation Technologies

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

Remediation technologies utilized at the Site include soil vapor extraction (SVE), groundwater extraction (GWE), biosparging, and light non-aqueous phase liquid (LNAPL) removal via manual bailing, passive skimming, absorbent socks, and active pumping using a portable skimming pump or vacuum truck. The above ground treatment of contaminated vadose zone soils excavated at the Site was conducted from April 2015 until March 2017 (see SGI/Apex's January 2018 *Shallow Soil Closure Report*). An automated product recovery system was brought online during August 2016 and SVE and/or biosparge wells were installed during November 2016, June/July 2017, and November/December 2017 as part of ongoing remedial expansion activities. Further drilling and expansion work was completed during the First Quarter 2023, and the expanded treatment system was active starting in late-June 2023, as summarized in the *Treatment Well Installation and System Expansion*, submitted to the RWQCB on September 20, 2023.

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

1.2.1 Groundwater Extraction and Treatment System

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

The GWETS utilizes electric pumps in each of the GWE wells to extract groundwater into a shared surge tank. Groundwater is then pumped from the surge tank through three particulate-removal bag filter vessels in series (BF1, BF2, and BF3), two MYCELX vessels in series (MX-7 and MX-21) for the removal of residual free product and/or oils/grease, a Bayoxide vessel for arsenic removal (added on June 22, 2022 [B-1]), two clay vessels in series, and two coal-based carbon (GAC) vessels in series. The groundwater is then discharged to the sanitary sewer.

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

1.2.2 Biosparge System

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

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

Subsequently, biosparge system optimization was performed during the Fourth Quarter 2021. During the Second Quarter 2022, biosparge trunkline cycles were further adjusted at the control panel to

alternate between eight groups rather than four, increasing pressure and flow to each well. Follow up monitoring is planned to verify system effectiveness and allow for any necessary adjustments to injection rates and/or cycling times. The Biosparge system was shut down December 16, 2022 in preparation for well installation and system expansion work. Well installation was completed in March 2023, and conveyance piping and system modifications were completed in early May 2023. An additional 18 vertical (wells TFB-39 – TFB-45 and BSP-31 – BSP-41; Table 1 and Figure 3) and 4 horizontal biosparge wells (wells HAS-1 – HAS-4; Table 1 and Figure 3) were installed to target areas with recalcitrant contamination, along with three additional biosparge trunklines (BSP Trunklines 12 – 14). Installation of a new, higher capacity compressor occurred in early June 2023, and startup testing was conducted in late June. The new compressor is a Kaeser ASD-40 rotary screw compressor capable of 191 cubic feet per minute at 125 pounds per square inch gauge discharge. The biosparge system was restarted July 2023, after startup testing of the new wells was completed.

During the Third Quarter 2023, additional biosparge system influence testing was performed on 15 monitoring wells targeted by 12 of the recently installed biosparge treatment wells to evaluate the influence of the expanded biosparge system on nearby monitoring wells, investigate potential issues that could reduce treatment performance, and optimize system performance in targeted areas where hydrocarbon impacts appear to be recalcitrant based on dissolved concentration trends. Based on the changes in monitoring parameters relative to conditions observed prior to the activation of the new treatment wells, 12 of the 14 monitoring wells tested appear to show varying degrees of influence from biosparging system operations. A detailed summary of the testing results, conclusions and system adjustments was presented in SGI/Apex's November 14, 2023 *Remediation Status Report – Third Quarter 2023*.

1.2.3 Soil Vapor Extraction Systems

As illustrated on Figure 2, the SVE well network for hydrocarbon extraction from vadose zone subsurface impacts historically included wells installed in the following areas: former above ground storage tank (AST) basin 80001 (VEW-23), former AST basins 80006 and 80007 (VEW-22, HW-1 and HW-3), former AST basin 80008 (HW-5, and HW-7), former AST basin 55004 (VEW-28, VEW-29, and VEW-30), northeastern boundary area (VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, and VEW-37), and southern former truck fueling and water tank area (VEW-31, VEW-38, VEW-39, VEW-40, VW-07, VW-09, VW-10, VW-11, VW-12, VW-13, VW-14, VW-15, and VW-16).

Several new SVE wells were installed within the eastern area and southern area of the Site during November 2016 and June/July 2017, as summarized in SGI/Apex's June 30, 2017 *Remediation Well Installation Update Report*. Wells VEW-38, VEW-39 and VEW-40 were brought online to the carbon vapor extraction system (VES) in June 2017, and wells RW-1, RW-2, RW-7, RW-9, RW-12, RW-13, RW-18, RW-20 through RW-24, RW-26, and RW-28 through RW-33 were brought online in August 2017. The new SVE wells were brought online following the completion of tie-in work to the carbon VES. Most of these wells were subsequently tied into the temporary thermal oxidizer VES during late December 2017/early January 2018 prior to the January 8, 2018 startup of this system, with the carbon VES being utilized to exclusively extract from three horizontal wells (HW-1, HW-5 and HW-

7) that span through the entire former tank farm since 2018. Additionally, tie-in of wells RW-2 through RW-8, RW-10 through RW-12, and RW-14 through RW-17 to the temporary thermal oxidizer VES was completed on February 14, 2018, and wells RW-34 through RW-50 were tied in and brought online on June 27, 2018. The permanent full-scale thermal oxidizer VES (hereafter referred to as thermal oxidizer VES) was installed and tested and system startup began on March 13, 2019.

During the First Quarter 2023, drilling efforts for installation of five additional horizontal SVE wells (HW-10 – HW-14; Table 1 and Figure 3) and seven vertical SVE wells (TFR-39 – TFR-45; Table 1 and Figure 3) wells were completed, along with two additional trunklines (SVE Trunklines 6 and 7). All the new SVE wells were connected to the existing thermal oxidizer via the control manifold in the system compound. Startup testing was performed in late June 2023, and all wells were active in early July 2023.

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

1.2.3.1 Carbon Vapor Extraction System

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

Operation of the carbon VES is currently conducted in accordance with SCAQMD Permit to Operate G12863, A/N 518989 issued on April 15, 2011. This permit was modified under A/N 568793 and a Permit to Construct was issued on March 6, 2015, to additionally allow for above ground soil treatment activities at the Site which were completed in March 2017 (see Section 1.2.5 for further details). System operational data is summarized in Tables 3A through 3C. Active SVE wells associated with the system are identified in Section 3.2 and Table 4.

1.2.3.2 Thermal Oxidizer Vapor Extraction System

A temporary thermal oxidizer VES began operation on January 8, 2018. The temporary thermal oxidizer VES was intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI/Apex's May 15, 2018, *Remediation Status Report - First Quarter 2018*. These high concentration SVE wells were connected to the carbon VES in late June and early August 2017. Additional wells in the southern area of the Site (RW-34 through RW-50) were brought online to the temporary thermal oxidizer VES in June 2018. The system was shut down on January 8, 2019, to comply with the SCAQMD Various Locations Permit F97121 which limited the operational period to one calendar year.

The permanent full-scale thermal oxidizer VES was installed and tested in March 2019, shortly after the temporary VES was shut down. The gas meter was installed in mid-February 2019, and the natural gas line was activated on February 26, 2019. The system manufacturer's service technicians

(Baker Furnace) conducted the initial system equipment testing on March 4, 2019, and system startup began on March 13, 2019.

The thermal oxidizer VES operated this quarter in catalytic mode. Upon installation of a new catalytic cell on March 26, 2021, soil vapors from the thermal oxidizer VES knockout tank are heated to a minimum temperature of 750°F prior to atmospheric discharge. Operation of the thermal oxidizer VES is conducted in accordance with SCAQMD Permit to Construct/Operate G52288, A/N 602424. The SCAQMD Rule 1166 notification form for SVE system startup was provided to SCAQMD on March 13, 2019. System operational data is summarized in Tables 5A through 5C. Active SVE wells associated with the thermal oxidizer systems are identified in Section 3.2 and Table 6.

1.2.4 LNAPL Removal

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

An automated product recovery system connected to wells located in the central area of the Site has also operated since August 2016. LNAPL removal wells are identified in Sections 3.3 and 3.4 and Tables 7A through 7W. A map showing the measurable liquid-phase hydrocarbons during the first semiannual 2023 monitoring event is presented on Figure 3.

1.2.5 Above Ground Soil Treatment

Per SGI/Apex's May 1, 2015, *Remediation Status Report - First Quarter 2015*, the excavation of impacted vadose zone soils at the Site began during January 2015. Treatment was achieved via the construction of soil biopiles that were connected to the carbon VES for SCAQMD permit compliance purposes. Biopile operations, maintenance and monitoring (OM&M) continued until March 20, 2017 after a final phase of limited additional cross-trenching and excavation work with the remaining treatment cells being subsequently disconnected and brought online April 24, 2015 following the completion of above ground treatment cell construction activities.

From January 2015 through March 2017, a total estimated volume of 67,574 cubic yards of petroleum hydrocarbon contaminated soil was excavated at the Site to depths up to 35 feet below ground surface. The goal of this remediation was to clean up source area soils that contributed to the degradation of groundwater and ready the real property of the Site for eventual conveyance. Details associated with the OM&M of the biopiles are provided in prior remediation status reports. Further details regarding treatment cell construction and excavated soil cleanup activities are provided in SGI/Apex's January 2018 *Shallow Soil Closure Report* and September 2018 *Addendum to the Shallow Soil Closure Report – Western Portion*. The RWQCB granted a no further action (NFA) determination for the shallow soil in the upper 10 feet of the Site's eastern 15-acre parcel on April 19, 2018. The NFA determination was contingent upon declaration of covenant and environmental restriction, which was recorded on September 27, 2018. Regulatory closure of shallow soil in the western part of the Site is pending.

1.2.6 Soil Management

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

2.0 OPERATIONS, MAINTENANCE AND MONITORING

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

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

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

2.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. GWE wells pumping to the GWETS this quarter were GW-14R, GWM-31 and GW-16. System OM&M details and monthly performance results are summarized in Tables 2A, 2B and 2C. A historical summary of influent water analytical sample results is provided in Table 8. Per the new sewer discharge permit, sampling is conducted semiannually and quarterly (chemical oxygen demand [COD] and suspended solids [SS] only) since January 1, 2020.

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

2.2 Soil Vapor Extraction Systems

The carbon VES system was restarted on November 21, 2019, upon installation of a new blower. System OM&M details and performance results are summarized in Tables 3A, 3B and 3C. Historical field photoionization detector (PID) readings from individual wells are summarized in Tables 9A through 9D; historical analytical vapor sampling results from individual wells are summarized in Table 10; and total mass removed is reported in Section 3.0.

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

A permanent thermal oxidizer VES was installed, and startup was conducted on March 13, 2019. System operational hours were limited to daytime hours from July to mid-August due to ongoing noise concerns from nearby residents. Sound blankets were installed in August and the thermal oxidizer began unrestricted operation (24/7) on August 26, 2019. The thermal oxidizer is intended to treat vapors associated with the relatively high concentration SVE wells that were originally tied into the carbon VES, as discussed in SGI/Apex's May 15, 2018, *Remediation Status Report - First Quarter 2018*. All such wells that have since been installed and connected as part of ongoing remediation expansion activities at the Site have been tied into the thermal oxidizer to cost-effectively accelerate the overall remediation project. Performance results for the thermal oxidizer VES are summarized in Tables 5A, 5B and 5C.

Compliance and/or performance soil vapor samples from the carbon VES and thermal oxidizer VES were collected in Tedlar bags during the reporting period as summarized in Tables 4 and 6. All vapor samples were delivered to Environmental Laboratory Accreditation Program (ELAP) accredited American Analytics for analysis.

The vapor samples were analyzed for the following:

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

Historical summaries of influent vapor analytical sampling results for the carbon VES and thermal oxidizer VES are provided in Tables 4 and 6, respectively. The laboratory analytical reports and chain-of-custody documents for the thermal oxidizer and carbon VES samples are included in Appendix A. As the Table 6 results indicate, thermal oxidizer VES concentrations decreased allowing for the installation of the catalytic cell on March 26, 2021. Maximum gasoline range organic (GRO), benzene and MTBE concentrations this period are 370 micrograms per liter ($\mu\text{g/L}$), 0.81 $\mu\text{g/L}$ and non-detect (ND) $<1.0 \mu\text{g/L}$, respectively. Maximum historic levels for these constituents were previously 14,000 $\mu\text{g/L}$ for GRO (October/December 2019) and 21 $\mu\text{g/L}$ for benzene (August 2019). MTBE has never been detected.

2.3 Biosparge System

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

Dual-nested SVE and biosparge wells RW-1 through RW-34 were installed during late June and early July 2017 with additional wells, RW-35 through RW-50 and TFB-1 through TFB-38, installed during November and December 2017 (Table 1). All of these wells were installed as part of ongoing remedial expansion activities to target impacts in the eastern area, central area, and southern area of the Site (Figure 2) in accordance with SGI/Apex's March 14, 2017 *Well Replacement Report and Work Plan*, June 30, 2017 *Remediation Well Installation Update Report*, and July 11, 2018 *Well Installation Completion Report*.

Conveyance piping installation activities concluded in October 2018, and the system equipment assembly was completed in early December 2018. System equipment shakedown testing was conducted in mid-December 2018, and preliminary system startup occurred during the week of December 24, 2018. System operation resumed in early 2019, and continued in the central area, the eastern area, and the southern area wells until December 2022, when the system was shutdown in preparation for system expansion activities. The expanded system (including the new, higher capacity compressor) was restarted in early June 2023, after system startup testing was successfully concluded. Biosparge system OM&M details during this quarter are provided in Section 3 and Tables 11A through 11C.

2.4 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Depth to product (DTP) and depth to groundwater (DTW) were measured to the nearest 0.01 foot from the top of the well casing (TOC) using an interface probe in select monitoring wells approximately every two weeks during the reporting period. LNAPL was removed from select wells via manual bailing, active pumping using a portable product skimmer and by utilizing absorbent socks. All product is placed in an AST located within the existing treatment compound. Mass and volume removal estimates using these techniques are summarized in Section 3 and in Tables 7A through 7D, 7N, 7O, 7P and 7R along with associated LNAPL gauging results. Total mass removed is summarized in Section 3.4.

2.5 LNAPL Removal Via Product Recovery System

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

All pumped product is routed to an AST located within the existing treatment compound via double contained conveyance piping. The product stored in the AST is subsequently removed off-site by a licensed transport, recycling and disposal company. No product was transported during this reporting period. LNAPL removal is determined individually for active wells with product removal pumps based on interpolating the total volume of product collected in the AST during a given quarter and

periodically measuring the volume of LNAPL recovered per cycle for each pump. A portion of the total AST product volume is assigned to each active pump based on well-specific cycle duration and frequency values which are programmed based on current gauging and yield data. Total mass removed is reported in Section 3.4. The Product recovery system was not operated this quarter due to the lack of measurable LNAPL observed in the treatment wells. OM&M details for all wells connected to the product recovery system during this quarter are provided in Tables 7E through 7M, 7Q, and 7S through 7W.

3.0 SUMMARY OF REMEDIATION PROGRESS

The following sections describe remedial progress at the Site.

3.1 Groundwater Extraction and Treatment System

The GWETS was restarted on October 10, 2019. Based on the total petroleum hydrocarbons quantified as diesel (TPHd) results for influent water samples and total groundwater extracted, an estimated 9,966 pounds of TPHd have been removed since April 1996 (Table 2C).

3.2 Soil Vapor Extraction Systems

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

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

The total mass of VOCs (as TPHg) removed via the carbon and the thermal oxidizer extraction systems during this period was approximately 1,953 pounds (346 pounds via the carbon VES and 1,607 pounds via the thermal oxidizer VES). An estimated 2,989,553 pounds have been removed since April 1996 (Table 3C) via the carbon VES and approximately 381,149 pounds removed via the temporary and permanent thermal oxidizer VESs since January 2018 (Table 5C). Note that the total estimated mass of VOCs removed via SVE does not account for any mass removed *in-situ* via biodegradation.

A field survey was conducted on December 13 and 14, 2023 to evaluate vapor concentrations (via PID measurements) and vacuum performance for the individual SVE wells. Based on the low mass extraction rates observed from individual wells in the Eastern and Western areas of the Site, Trunklines #1, #5, and #6 were switched over to the Carbon VES on December 20, 2023. Specifically, PID concentrations measured in the individual wells connected to Trunklines #1, #5, and #6 averaged less than 30 ppm (Tables 9B and 9C). Additionally, 50 wells were turned off (5 wells in Western Area, 3 wells in Central Area, 17 in Eastern Area, and 25 wells in Southern Area) on the same day in order to focus mass extraction from wells in the remaining hot spot areas. Minimal vacuum was observed in vault VECV#21 and Trunkline #7 was de-watered on December 20, 2023

which significantly improved extraction flow from wells HW-12, HW-13, and HW-14. These system adjustments resulted in a slight increase in the influent concentration measured at the system influent via PID on December 28, 2023 (Table 5C). However, system flowrates steadily decreased during the month of December, which was determined to be caused by an oil gasket failure during a routine O&M visit on January 5, 2024. Blower repairs are expected to be completed in early February 2024. Visual inspections of the blower gasket and oil level monitoring will be conducted more frequently (weekly instead of bi-weekly) to minimize the risk of this equipment failure in the future.

3.3 Biosparge System

Recommissioning of the biosparge system was completed during Fourth Quarter 2018, and system startup operations began in late December in the central area wells BSP-21 through BSP-24, BSP-27, BSP-25, BSP-26, BSP-28 through BSP-30; operations began in mid-April 2019 in the eastern area wells BSP-10 thru BSP-14, RW-4, RW-5, RW-9, RW-10, RW-11, RW-14, RW-18. On August 23, 2019, sparging operations were phased into the southern area wells BSP-19, BSP-20, RW-21, RW-23, RW-26, BSP-17, BSP-18, RW-30, RW-31, RW-32, RW-34, BSP-15, BSP-16, RW-19, RW-20, RW-25, and RW-28. Additional southern area wells RW-22, RW-24, RW-27, RW-29, RW-33, RW-43, RW-35, RW-38, RW-39, RW-45, RW-36, RW-37, RW-41, RW-42, RW-46, RW-47, RW-48, RW-49, and RW-50 were brought online on September 20, 2019. Additional eastern area wells RW-1, RW-3, RW-12, and RW-13 were brought online on November 15, 2019; and RW-2, RW-7, RW-8, RW-6, RW-15, RW-16, and RW-17 were brought online on April 16, 2020. Additional central area wells TFB-7, TFB-9, TFB-10, TFB-11, TFB-12, TFB-13, TFB-14, TFB-1, TFB-2, TFB-4, TFB-5, TFB-6, and TFB-8 were brought online on November 18, 2019.

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

All of the recently installed biosparge wells were started up in early July 2023, and have been active throughout the current reporting period, including Central area vertical biosparge wells TFB-39, TFB-40, TFB-41, TFB-42, TFB-43, TFB-44, TFB-45, BSP-34, BSP-35, BSP-36, BSP-37, BSP-39, and BSP-41, Western area vertical biosparge wells BSP-31, BSP-32, BSP-33, and BSP-40, Southern area vertical biosparge well BSP-38, and Eastern area horizontal biosparge wells HAS-1, HAS-2, HAS-3, and HAS-4. In order to optimize injection performance, and minimize air compressor downtime, the injection cycling timer configuration was modified on October 18, 2023.

Based on the biosparge influence testing conducted during the Third Quarter 2023, and the dissolved TPH concentration trends through the most recent semiannual monitoring event (included in Appendix C), approximately 1/3 of the biosparge well network was turned off during the Fourth Quarter 2023 reporting period in order to focus treatment on the remaining hot spot areas. Additional biosparge influence testing was delayed due to maintenance issues with both the biosparge compressor and thermal oxidizer system during the current reporting period, and is tentatively scheduled to be conducted in February and March 2024. The biosparge system was shutdown

periodically due to low pressure buildup alarms in late October (~ 4 days), mid-November (~2 days), and late December (~1 day) along with a 4 day shutdown period between December 1st and December 4th when the thermal oxidizer VES was down; the estimated total biosparge system downtime was 11 days total during the current reporting period.

The dissolved TPH concentration trends indicate effective treatment near the following monitoring wells targeted by the expanded biosparge system (Figure 4):

- Eastern area wells GMW-62, GMW-68, GMW-47, GW-16, and GMW-59
- Central area wells TF-18, TF-17R, TF-21, TF-23, and GW-14R
- Western area wells PZ-3, TF-8, TF-9R, and TF-24
- Southern area wells GMW-10, GMW-4R, and GMW-12

Several areas were identified with recalcitrant TPH contamination (based on the recent groundwater monitoring results) that will be the focus of ongoing biosparge treatment operations, including near the following monitoring wells:

- Eastern area wells GMW-60 and GMW-69
- Central area wells TF-20R, GMW-7, GMW-45, TF-13, TF-15, TF-16, GMW-19, and GMW-18
- Western area wells GW-8, GMW-16, GMW-21 and MW-26

3.4 LNAPL Gauging and Removal

During the reporting period, DTW and DTP were measured in Hollifield Park wells GMW-62, GMW-68, and on-site wells TFR-22, TFR-24, TFR-29 and RTF-18-E (Tables 7A, 7B, 7N, 7O, 7P and 7R). No measurable LNAPL was observed during the current reporting period in any of the wells gauged.

A total of approximately 7 gallons (46 pounds) of LNAPL was removed from the Site during this quarter, and an estimated 10,550 gallons (71,280 pounds) of LNAPL has been removed since January 2014.

3.4.1 LNAPL Removal Via Bailing, Skimming and Absorbent Socks

Approximately 7 gallons (46 pounds) of LNAPL was removed via manual bailing, active pumping using a portable product skimmer and/or by utilizing absorbent socks from wells GMW-62, GMW-68, TFR-22, TFR-24, TFR-29 and RTF-18-E during this reporting period (Tables 7A, 7B, 7N, 7O, 7P and 7R).

3.4.2 LNAPL Removal Via Product Recovery System

Wells TFR-9, GMW-18, TFR-12, TFR-14, TF-15, TFR-15, TF-16, GW-14R, TFR-22, TFR-24, TFR-29, and TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, TF-18, RTF-18-NNW and RTF-18-W were connected to an automated product recovery system which included 16 total active recovery pumps. Pumping resumed in well RTF-18-E in early January 2019 and was taken back off-line in late February 2019 due to insufficient yield. Pumping resumed in September 2019 and shut down again in mid-February 2020 due to insufficient yield. Well RTF-18-NNW has remained off-line due

to insufficient yield since March 2018. Based on low LNAPL yields during initial testing from wells TFR-27, and GMW-45 conducted in early October 2018, skimmers have remained off-line since mid-October 2018.

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

4.0 REMEDIATION SYSTEMS EVALUATION AND OPTIMIZATION

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

Reconfiguration of the respective vapor extraction systems will be conducted regularly to allow for cost-effective site-wide cleanup. Thus, as concentration levels in one or more currently high concentration wells decline to the point where carbon treatment becomes feasible, the well(s) will be progressively disconnected from the thermal oxidizer VES and tied into the carbon VES. Based on mass extraction trends observed in the trunklines, it is estimated that all trunklines will be switched over to the carbon VES during the Third Quarter 2024 reporting period.

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

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

GWE in the central area from wells GMW-31 and GW-14R and in the eastern area from well GW-16 will continue to assist with containment until further evaluation of natural attenuation is conducted. Additionally, absorbent sock installation and LNAPL recovery via pumping and/or manual bailing will continue along with full-scale OM&M of the product recovery system. Due to a decline in measurable LNAPL, operation of the product recovery system has temporarily ceased to allow LNAPL recovery.

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

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

Biosparging operations will continue and trunkline configuration and run time schedule will be evaluated and adjusted as needed. Biosparge operations will continue to be optimized to enhance volatilization and biodegradation in impacted areas and will expand to target areas where the LNAPL plume has receded. Periodic collection of pressure response and field parameters data from

monitoring wells within the treatment zone will be used to optimize operations and confirm the biosparging zone of influence.

5.0 PLANNED FIRST QUARTER 2024 ACTIVITIES

During the next reporting period, DLA plans to continue to focus in-situ remedial efforts on the central area, eastern area, and southern area of the Site. Following is a summary of planned First Quarter 2024 OM&M activities:

- Continue minimum weekly maintenance and monitoring of the thermal oxidizer VES, including newly connected trunklines 6 & 7. Tasks include measuring individual well vapor concentrations with an organic vapor analyzer (OVA) and collecting/analyzing monthly influent and effluent vapor samples.
- Collect individual extraction well vapor samples for laboratory analysis as needed. Vapor samples will be collected from horizontal wells and extraction wells.
- Continue regular LNAPL gauging and removal activities (as applicable), including wells GWM-62 and GMW-68 (both located off-site in Holifield Park), GMW-7, TF-19, and product recovery system wells TFR-9, GMW-18, TFR-12, TF-15, TFR-14, TFR-15, TF-16, GW-14R, TFR-18, TFR-22, TFR-24, TFR-29, TFR-33, RTF-18-E, RTF-18-NW, RTF-18-N, RTF-18-NNW, RTF-18-W, TF-18, TFR-27, and GMW-45.
- Gauge wells TFR-17, TFR-19, TFR-32, TFR-30, TFR-5, TFR-7, TFR-21, and TFR-26 periodically as SVE is applied (via the thermal oxidizer VES) to evaluate any appearance and/or increase in LNAPL thicknesses and the potential for active/passive product recovery.
- If sufficient LNAPL yield is observed, resume operation of TFR-22 and TFR-29 and continue controlled product recovery system OM&M.
- Continue to utilize the carbon VES for focused extraction from the relatively low concentration SVE wells to allow for reasonable carbon usage rates while achieving comprehensive site-wide vadose zone cleanup in conjunction with the new permanent thermal oxidizer VES (i.e., treatment of both relatively high and low concentration wells via the simultaneous use of both vapor abatement technologies).
- Continue the permanent thermal oxidizer VES operations to cost-effectively process moderate vapor concentration (catalytic mode from approximately 500 ppm to 3,000 ppm) well flows, with any remaining low concentration (less than approximately 500 ppm) well flows being more cost-effectively treated via the existing carbon VES.
- Continue to evaluate influent vapor concentrations to the thermal oxidizer VES after installation of the catalytic cell.
- Monitor oxygen (O₂) and CO₂ concentrations in influent vapor; data will be used to validate the estimated biosparge system mass destruction and help provide technical basis for the transition to an passive remedy (e.g. natural source zone depletion).
- Evaluate converting low concentration HW wells to biovent wells for bioremediation.

- Continue minimum weekly maintenance and monitoring of the GWETS operations and collect groundwater samples for laboratory analysis as required by the sewer discharge permit.
- Continue to evaluate GWE flow rates and confirm contaminant containment.
- Evaluate biosparge trunkline cycling configuration and make adjustments as needed to optimize air delivery to treatment wells located in previously identified “hot-spot” areas.
- Monitor air delivery to new vertical and horizontal wells to confirm stable & effective operation and evaluate head loss between manifold and wellheads.
- Monitor pressure response and groundwater mounding nearby monitoring wells targeted by new treatment wells during biosparging operations to verify influence.
- Monitor dissolved oxygen, oxidation reduction potential, temperature, pH, and electrical conductivity in monitoring wells targeted by the new biosparge treatment wells to evaluate influence and treatment efficacy.

Ongoing remediation activities and progress will be described in the *First Quarter 2024 Remediation Progress Report* to be submitted by May 15, 2024.

6.0 LIMITATIONS

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

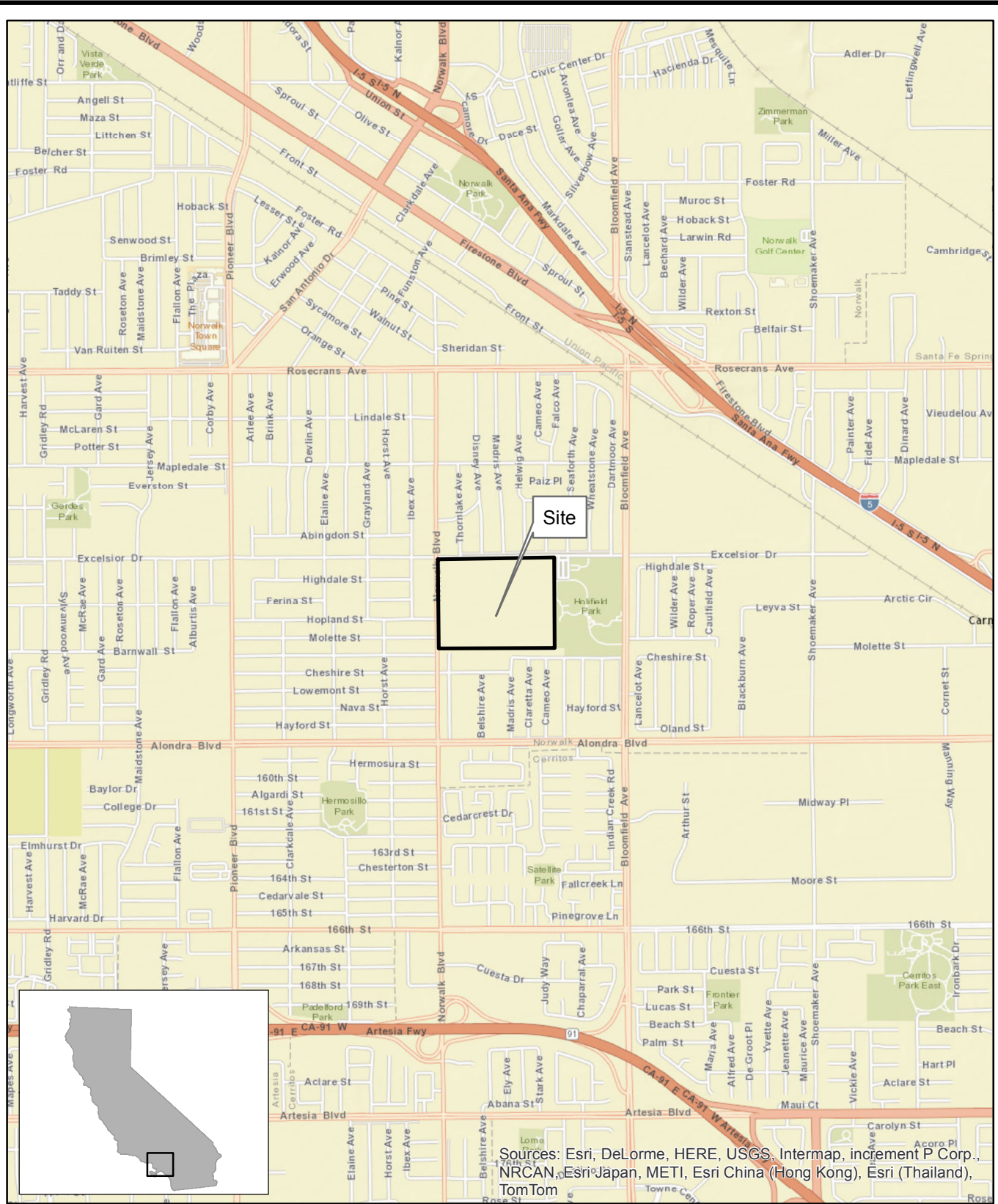
To the extent that this report is based on information provided to SGI/Apex by third parties, including DLA, their direct contractors, previous personnel, and other stakeholders, SGI/Apex cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party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

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

7.0 REFERENCES

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FIGURES



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

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

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

SCALE= 1:24,000



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

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

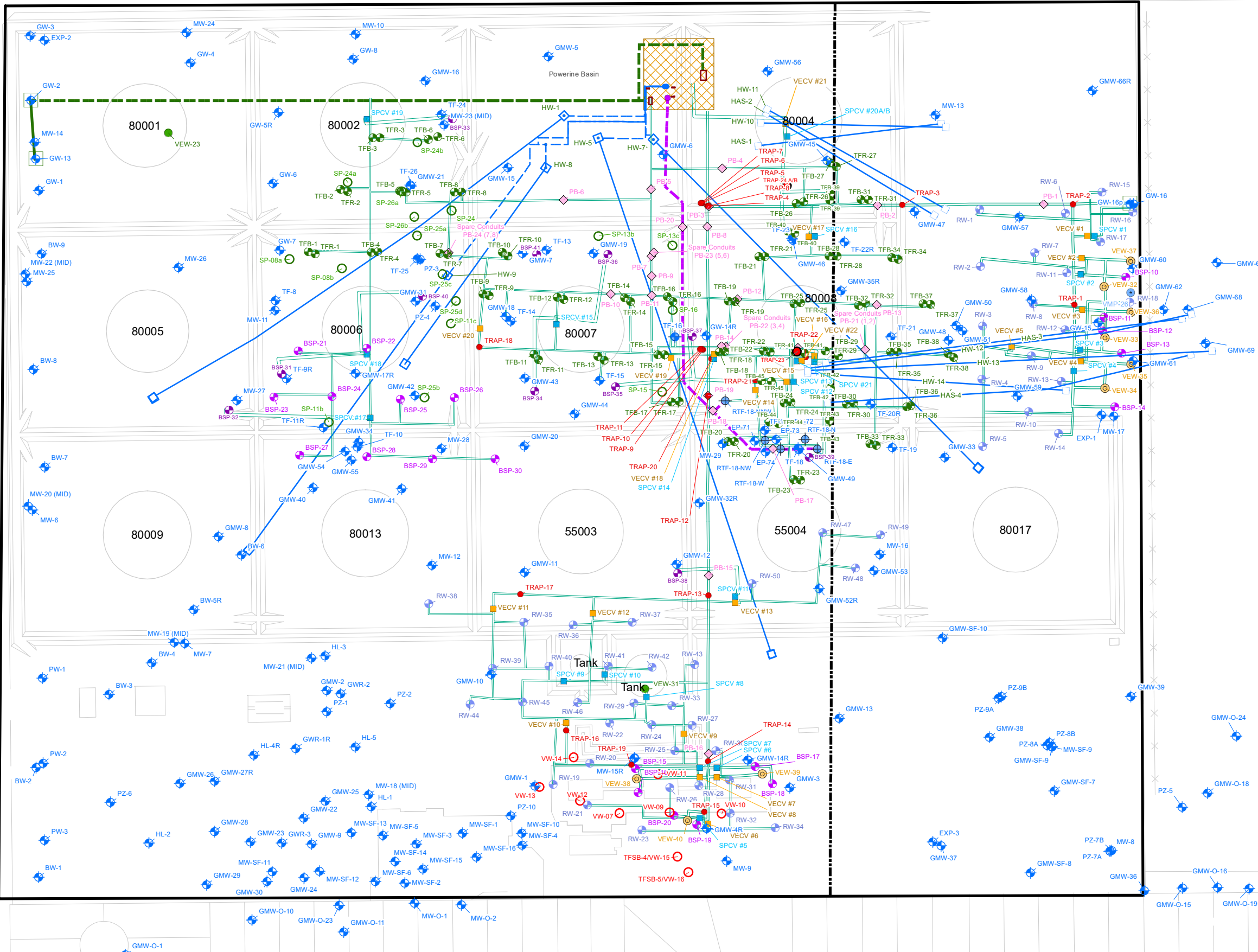
SITE LOCATION MAP

FIGURE
1

Document Path: Z:\GIS_Repository\Signal Hill\DLA_Norwalk\GIS_Maps\Biosparging_2016-2017\Fig-2 All Well & Piping Connections_08032023.mxd

Excelsior Dr

Norwalk Blvd



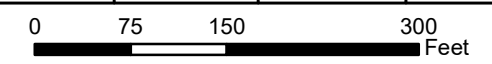
Legend

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



DFSP Norwalk
15306 Norwalk Boulevard
Norwalk, California

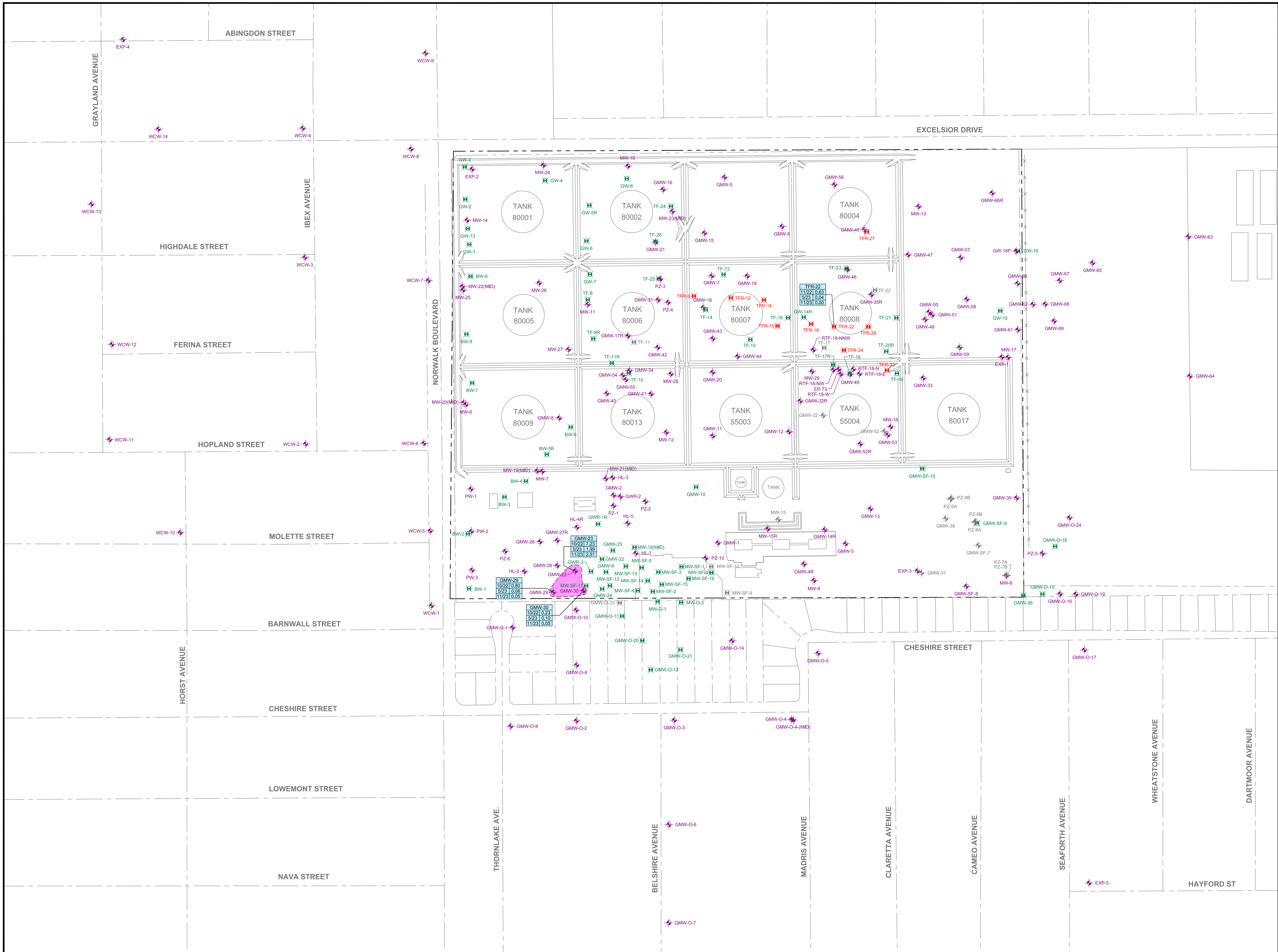
Project Number:	Date:	Drawn By:	Approved By:
091-NDLA-026	08/04/2023	SM	BT



Site Map Showing All Well and Piping Locations

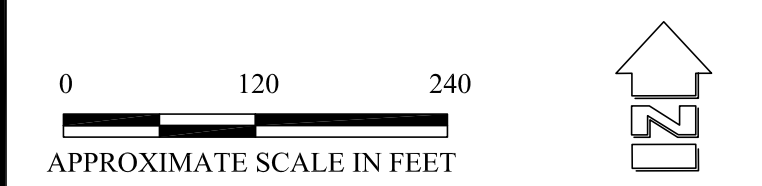
1962 Freeman Avenue Signal Hill, CA 90755
(562) 597-1055

Figure
2



- EXPLANATION:**
- FORMER ABOVEGROUND STORAGE TANKS
 - DFSP NORWALK BORDER
 - GROUNDWATER MONITORING WELL
 - TOTAL FLUIDS RECOVERY WELL
 - WELLS SHOWN IN GREY HAVE BEEN DECOMMISSIONED
 - EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
- MEASURED PRODUCT THICKNESS IN FEET FOR THE THREE MOST RECENT SEMIANNUAL EVENTS; WHERE THE DATA BOX IS SHOWN IN BLUE, THE MEASURED PRODUCT THICKNESS HAS DECREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2022 SEMIANNUAL MONITORING EVENT
- | | | |
|--------|-------|------|
| TFR-22 | 11/22 | 0.63 |
| | 5/23 | 0.04 |
| | 11/23 | 0.00 |
- NM NOT MEASURED
 - ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER

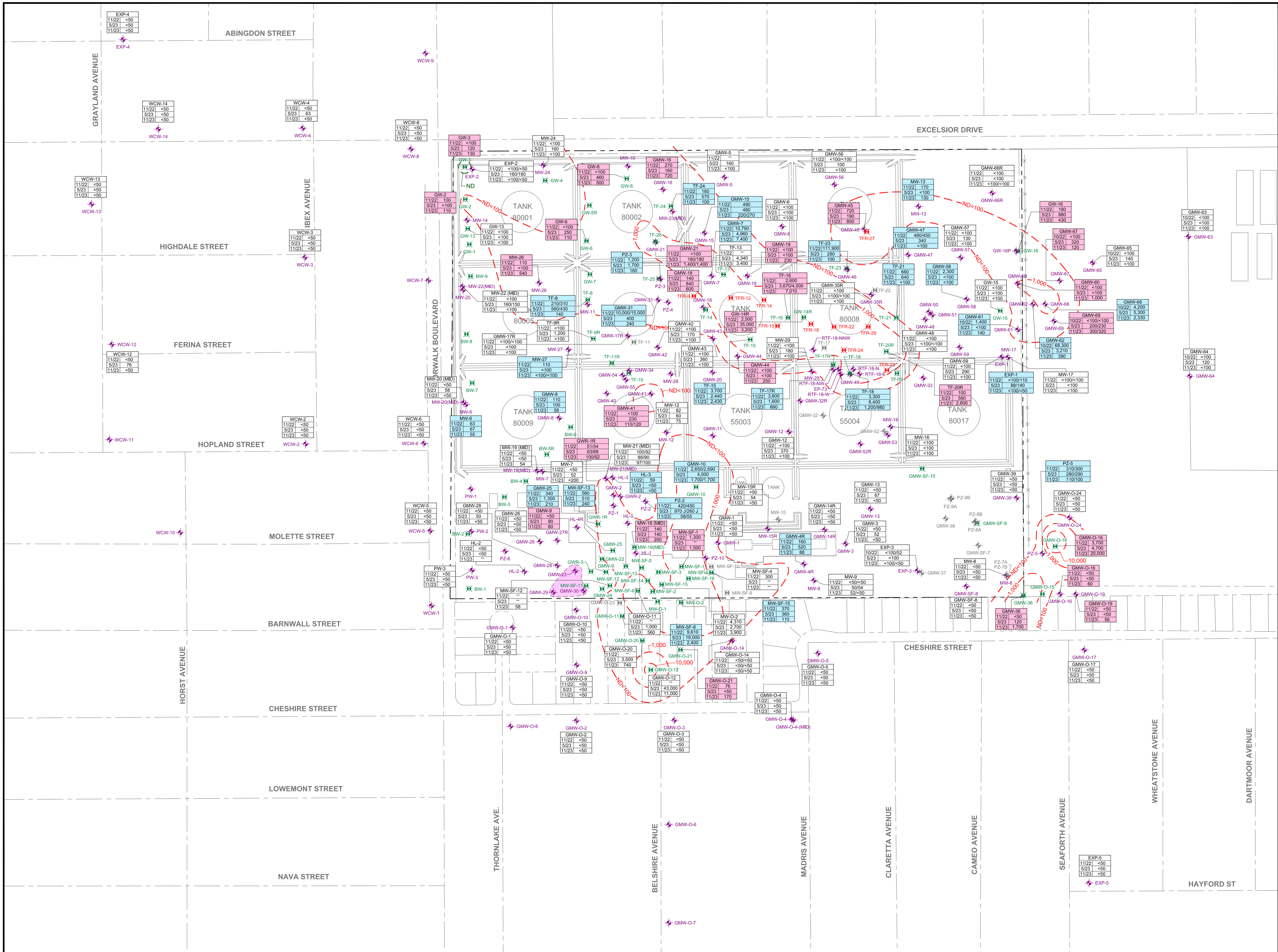
- SURVEY NOTES:**
- BASE MAP PREPARED FROM DATA PROVIDED BY FLUOR DANIEL GTI, DULIN & BOYNTON, GEOMATRIX, AND PARSONS
 - EXCEPT AS NOTED BELOW, WELL LOCATIONS SURVEYED BY DULIN & BOYNTON
 - LOCATIONS OF WELLS HL-1, HL-3, AND HL-4 BASED ON FIELD MEASUREMENTS BY FLUOR DANIEL GTI AND WOODWARD-CLYDE



DATE: 12/2023	FILE NAME: DFSP-Norwalk-SE2-23.dwg
PROJECT No.: 091-NOR-001	CONTRACT: SPE603-20-D-5008

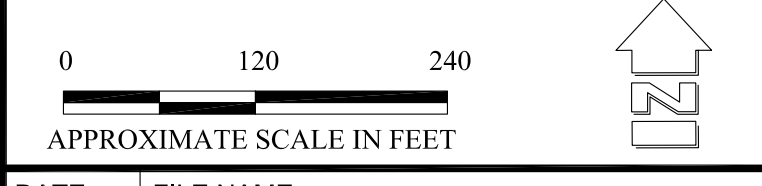
**DISTRIBUTION OF FLOATING PRODUCT ON GROUNDWATER
SECOND SEMIANNUAL 2023
MONITORING EVENT**

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA



- EXPLANATION:**
- FORMER ABOVEGROUND STORAGE TANKS
 - DFSP NORWALK BORDER
 - WCV-14 GROUNDWATER MONITORING WELL
 - TFR-33 TOTAL FLUIDS RECOVERY WELL
 - WELLS SHOWN IN GREY HAVE BEEN DECOMMISSIONED
 - EX-26 EXTRACTION WELL USED FOR VAPOR, GROUNDWATER, TOTAL FLUIDS, OR FLOATING PRODUCT EXTRACTION
 - TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATIONS ARE THE SUMMATION OF TPH AS GASOLINE (TPH_G) AND TPH AS DIESEL (TPH_D) IN MICROGRAMS PER LITER (µg/L) FOR THE THREE MOST RECENT SEMIANNUAL EVENTS; WHERE THE DATASET IS SHOWN IN WHITE, THE CONCENTRATION OF TPH HAS REMAINED SIMILAR (CONCENTRATION CHANGE IS LESS THAN 10%) AT THAT LOCATION SINCE THE FALL 2022 SEMIANNUAL MONITORING EVENT, OR THE DATASET SHOWN DOES NOT PROVIDE A BASIS FOR COMPARISON
 - WHERE THE DATASET IS SHOWN IN RED, THE CONCENTRATION OF TPH HAS INCREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2022 SEMIANNUAL MONITORING EVENT
 - WHERE THE DATASET IS SHOWN IN BLUE, THE CONCENTRATION OF TPH HAS DECREASED BY 10% OR MORE AT THAT LOCATION SINCE THE FALL 2022 SEMIANNUAL MONITORING EVENT
 - <100 NOT DETECTED AT OR ABOVE THE INDICATED LABORATORY REPORTING LIMIT
 - NOT SAMPLED / NOT ANALYZED
 - <100/<100 TWO CONCENTRATIONS ARE SHOWN WHERE DUPLICATE SAMPLES WERE ANALYZED
 - J ESTIMATED CONCENTRATION
 - ND<100 - ESTIMATED EXTENT OF DISSOLVED TPH IN GROUNDWATER (UPPERMOST AQUIFER) DETECTED AT CONCENTRATIONS ABOVE 100 MICROGRAMS PER LITER (µg/L)
 - 1,000 - LINE OF EQUAL TPH CONCENTRATION IN GROUNDWATER (UPPERMOST AQUIFER)
 - ND - DATA FOR THE DEEPER EXPOSITION AQUIFER ARE CONTOURED IN GREEN
 - ESTIMATED EXTENT OF MEASURABLE LIGHT NONAQUEOUS PHASE LIQUID (LNAPL, FLOATING PRODUCT) ON GROUNDWATER. REFER TO FIGURE 3 OR TABLE 2 FOR MEASURED THICKNESSES

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



DATE: 12/2023 FILE NAME: DFSP-Norwalk-SE2-23.dwg
PROJECT No.: 091-NOR-001 CONTRACT: SPE603-20-D-5008

TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SECOND SEMIANNUAL 2023 SAMPLING EVENT

DFSP NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA

TABLES

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

Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	Northwest Corner (AST 80001)	GW-1	06/12/95	75.97	63	25 - 60	GWE
		GW-2	06/12/95	75.78	63	25 - 60	GWE
		GW-3	06/13/95	75.79	63	25 - 60	GWE
		GW-4	06/12/95	75.78	63	25 - 60	GWE
		GW-13	04/26/07	76.85	67	25 - 65	GWE
		VEW-23	08/03/04	76.20	25	15 - 25	SVE
Eastern Area	15 Acre City of Norwalk Parcel	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
		HW-8	06/07/19	--	30	60	SVE
		HW-9	06/07/19	--	29	220	SVE
		HAS-1	01/13/23	--	44	50	Biosparge
		HAS-2	01/12/23	--	45	100	Biosparge
		HW-10	01/12/23	78.05	31	135 (continuous)	SVE
		HW-11	01/12/23	77.77	32	120 (continuous)	SVE
		HW-14	12/18/22	76.90	30	105 (continuous)	SVE
	Holifield Park	HAS-3	12/18/22	--	45	100 (continuous)	Biosparge
		HAS-4	12/21/22	--	45	200 (continuous)	Biosparge
		HW-12	12/18/22	77.00	30	120 feet (continuous)	SVE
		HW-13	12/18/22	77.03	32	145 feet (continuous)	SVE

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Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	GMW-21	08/02/91	76.23	50	25 - 50	TFE/GWE
		GMW-31	06/02/93	76.50	65	25 - 50	GWE
		GW-14R	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	--	--	50	48 - 50	Biosparge
		SP-13c	--	--	50	48 - 50	Biosparge
		SP-15	--	--	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	09/22/95	74.47	63	25 - 60	TFE, GWE		
TF-10	09/25/95	73.61	63	25 - 60	TFE, GWE		
TF-11	09/25/95	74.40	63	25 - 60	TFE, GWE		
TF-13	09/26/95	75.47	63	25 - 60	TFE, GWE		

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Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80001, AST 55004)	TF-14	09/27/95	74.35	63	25 - 60	TFE, GWE
		TF-15	09/28/95	74.78	63	25 - 60	TFE, GWE
		TF-16	09/28/95	75.89	63	25 - 60	TFE, GWE
		TF-17	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	10/03/95	75.08	63	25 - 60	TFE, GWE
		TF-21	09/29/95	74.96	63	25 - 60	TFE, GWE
		TF-22	10/02/95	74.76	63	25 - 60	TFE, GWE
		TF-23	07/05/94	75.31	50.5	20 - 50	TFE, GWE
		TF-24	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

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Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	BSP-21	12/07/17	--	46	43 - 45	Biosparge
		BSP-22	12/07/17	--	46	43 - 45	Biosparge
		BSP-23	12/08/17	--	46	43 - 45	Biosparge
		BSP-24	12/07/17	--	46	43 - 45	Biosparge
		BSP-25	12/08/17	--	46	43 - 45	Biosparge
		BSP-26	12/08/17	--	46	43 - 45	Biosparge
		BSP-27	12/07/17	--	46	43 - 45	Biosparge
		BSP-28	12/07/17	--	46	43 - 45	Biosparge
		BSP-29	12/08/17	--	46	43 - 45	Biosparge
		BSP-30	12/11/17	--	46	43 - 45	Biosparge
Western Area	AST 80006	BSP-31	02/22/23	77.45	46	43.5 - 45.5	Biosparge
	AST 80005	BSP-32	02/22/23	78.38	46	43.5 - 45.5	Biosparge
	AST 80002	BSP-33	02/21/23	79.68	46	43 - 45	Biosparge
	AST 80006	BSP-40	02/21/23	76.91	46	43 - 45	Biosparge
Central Area	AST 80007	BSP-34	02/17/23	78.63	46	43 - 45	Biosparge
		BSP-35	02/16/23	78.36	46	43 - 45	Biosparge
		BSP-36	02/17/23	78.55	46	43 - 45	Biosparge
	AST 80008	BSP-37	02/16/23	78.15	46	43 - 45	Biosparge
	AST 55004	BSP-39	02/13/23	76.70	46	43 - 45	Biosparge
	AST 80007	BSP-41	02/21/23	78.88	51	48 - 50	Biosparge
Southern Area	AST 55003	BSP-38	02/15/23	77.11	46	43 - 45	Biosparge

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

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Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	TFR-29	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-30	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-31	11/29/17	--	40	20 - 40	TFE, SVE
		TFR-32	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-33	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-34	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-35	11/29/17	--	40	20 - 40	TFE, SVE
		TFB-1	12/06/17	--	46	43 - 45	Biosparge
		TFB-2	12/05/17	--	46	43 - 45	Biosparge
		TFB-3	12/05/17	--	46	43 - 45	Biosparge
		TFB-4	12/06/17	--	46	43 - 45	Biosparge
		TFB-5	12/06/17	--	46	43 - 45	Biosparge
		TFB-6	12/05/17	--	46	43 - 45	Biosparge
		TFB-7	12/06/17	--	46	43 - 45	Biosparge
		TFB-8	12/05/17	--	46	43 - 45	Biosparge
		TFB-9	12/04/17	--	46	43 - 45	Biosparge
		TFB-10	12/04/17	--	46	43 - 45	Biosparge
		TFB-11	12/04/17	--	50	48 - 50	Biosparge
		TFB-12	12/01/17	--	46	43 - 45	Biosparge
		TFB-13	12/01/17	--	46	43 - 45	Biosparge
		TFB-14	11/30/17	--	46	43 - 45	Biosparge
TFB-15	11/27/17	--	46	43 - 45	Biosparge		
TFB-16	11/28/17	--	46	43 - 45	Biosparge		
TFB-17	11/28/17	--	46	43 - 45	Biosparge		
TFB-18	11/27/17	--	46	43 - 45	Biosparge		
TFB-19	11/28/17	--	46	43 - 45	Biosparge		
TFB-20	11/30/17	--	46	43 - 45	Biosparge		
TFB-21	11/27/17	--	46	43 - 45	Biosparge		

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 15306 Norwalk Blvd., Norwalk, CA

Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	North (AST 80002, AST 80004, AST 80006, AST 80007, AST 80008, AST 80013, AST 55003, AST 55004)	TFB-22	11/27/17	--	46	43 - 45	Biosparge
		TFB-23	11/28/17	--	46	43 - 45	Biosparge
		TFB-24	11/27/17	--	46	43 - 45	Biosparge
		TFB-25	11/27/17	--	46	43 - 45	Biosparge
		TFB-26	11/22/17	--	46	43 - 45	Biosparge
		TFB-27	11/21/17	--	46	43 - 45	Biosparge
		TFB-28	11/22/17	--	46	43 - 45	Biosparge
		TFB-29	11/27/17	--	46	43 - 45	Biosparge
		TFB-30	11/27/17	--	46	43 - 45	Biosparge
		TFB-31	11/21/17	--	46	43 - 45	Biosparge
		TFB-32	11/22/17	--	46	43 - 45	Biosparge
		TFB-33	11/27/17	--	46	43 - 45	Biosparge
		TFB-34	11/21/17	--	46	43 - 45	Biosparge
		TFB-35	11/27/17	--	46	43 - 45	Biosparge
Central Area	AST 80004	TFB-39	02/09/23	77.65	46	43 - 45	Biosparge
		TFR-39	02/06/23	77.77	40	20 - 40	TFE, SVE

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Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Central Area	AST 80008	TFB-40	02/09/23	78.44	46	43 - 45	Biosparge
		TFB-41	02/10/23	77.14	46	43 - 45	Biosparge
		TFB-42	02/14/23	76.97	46	43 - 45	Biosparge
		TFB-43	02/14/23	76.70	46	43.5 - 45.5	Biosparge
		TFB-44	02/10/23	76.51	46	43.5 - 45.5	Biosparge
		TFB-45	02/13/23	77.10	46	43.5 - 45.5	Biosparge
		TFR-40	02/06/23	78.50	40	20 - 40	TFE, SVE
		TFR-41	02/08/23	77.18	40	20 - 40	TFE, SVE
		TFR-42	02/07/23	77.01	40	20 - 40	TFE, SVE
		TFR-43	02/07/23	77.03	40	20 - 40	TFE, SVE
		TFR-44	02/15/23	76.98	40	20 - 40	TFE, SVE
		TFR-45	02/08/23	77.20	40	20 - 40	TFE, SVE
Southern Area	AST 80013, AST 55003, AST 55004, AST 80017	RW-35	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-36	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-37	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-38	11/16/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-47	11/17/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-48	11/17/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-49	11/16/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-50	11/20/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
Eastern Area	North	BSP-1	04/18/07	--	50	47 - 49	Biosparge
		BSP-2	04/18/07	--	50	48 - 50	Biosparge
		BSP-3	04/17/07	--	48	46 - 48	Biosparge
		BSP-4	04/17/07	--	49	47 - 49	Biosparge
		BSP-5	04/17/07	--	49.5	47 - 49	Biosparge
		BSP-6	04/18/07	--	49	47 - 49	Biosparge
		BSP-7	04/19/07	--	48	46 - 48	Biosparge
		BSP-8	04/19/07	--	48	46 - 48	Biosparge

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Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Eastern Area	North	BSP-9	04/19/07	--	48	46 - 48	Biosparge
		BSP-10	11/04/16	--	46.5	44 - 46	Biosparge
		BSP-11	11/04/16	--	40	38 - 40	Biosparge
		BSP-12	11/04/16	--	46.5	44 - 46	Biosparge
		BSP-13	11/07/16	--	46.5	44 - 46	Biosparge
		BSP-14	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	06/21/17	-- / --	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
		RW-2	06/21/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-3	06/21/17	--	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
		RW-4	06/22/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-5	06/22/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-6	06/27/17	--	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
		RW-7	06/26/17	--	37 / 46	17 - 37 / 43 - 45	SVE / Biosparge
		RW-8	06/28/17	--	38.5 / 46	18.5 - 38.5 / 43 - 45	SVE / Biosparge
		RW-9	06/26/17	--	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
		RW-10	06/22/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-11	06/26/17	--	36 / 46	16 - 36 / 43 - 45	SVE / Biosparge
		RW-12	06/23/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-13	06/23/17	--	35 / 46	15 - 35 / 43 - 45	SVE / Biosparge
		RW-14	06/23/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-15	06/20/17	--	38 / 46	18 - 38 / 43 - 45	SVE / Biosparge
		RW-16	06/20/17	--	34 / 46	14 - 34 / 43 - 45	SVE / Biosparge
		RW-17	06/27/17	--	39 / 46	19 - 39 / 43 - 45	SVE / Biosparge
RW-18	06/20/17	--	38 / 46	18 - 38 / 43 - 45	SVE / Biosparge		
SP-21a	--	--	50	48 - 50	Biosparge		

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Eastern Area	North	SP-21b	--	--	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	11/30/17	--	40	20 - 40	TFE, SVE
		TFR-37	11/28/17	--	40	20 - 40	TFE, SVE
		TFR-38	11/28/17	--	40	20 - 40	TFE, SVE
		TFB-36	11/20/17	--	46	43 - 45	Biosparge
		TFB-37	11/21/17	--	46	43 - 45	Biosparge
		TFB-38	11/20/17	--	46	43 - 45	Biosparge
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	BSP-15	11/02/16	--	50.5	48 - 50	Biosparge
		BSP-16	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-17	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-18	11/03/16	--	50.5	48 - 50	Biosparge
		BSP-19	11/02/16	--	50.5	48 - 50	Biosparge
		BSP-20	11/01/16	--	50.5	48 - 50	Biosparge
		RW-19	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-20	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-21	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-22	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-23	06/30/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-24	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-25	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-26	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-27	06/28/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-28	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-29	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
RW-30	06/27/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge		

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

Remediation Area	Location	Well	Installation Date	Casing Elevation (ft msl)	Total Depth (ft bgs)	Screen Interval (ft bgs)	Remediation Well Function
Southern Area	Former Truck Fueling Area and Adjacent Water Tank Area	RW-31	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-32	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-33	06/29/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-34	07/03/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-39	11/15/17	--	33 / 47	13 - 33 / 44 - 46	SVE / Biosparge
		RW-40	11/15/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-41	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-42	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-43	11/14/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-44	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-45	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		RW-46	11/13/17	--	33 / 46	13 - 33 / 43 - 45	SVE / Biosparge
		VEW-31	08/03/04	75.10	15	5 - 15	SVE
		VEW-38	11/02/16	--	30.5	20 - 30	SVE
		VEW-39	11/03/16	--	30.5	20 - 30	SVE
		VEW-40	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
- BSP = Biosparge
- HW = Horizontal vapor extraction well
- SVE = Soil vapor extraction
- TFE = Total fluid extraction
- TFB = Total fluids biosparge
- TFR = Total fluids recovery
- = Information not available

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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
10/1/23	*		--	--	--	--	--	--	--	--	9,964.22
10/2/23	*		--	--	--	--	--	--	--	--	9,964.23
10/3/23	*		--	--	--	--	--	--	--	--	9,964.24
10/4/23	*		--	--	--	--	--	--	--	--	9,964.25
10/5/23	*		--	--	--	--	--	--	--	--	9,964.26
10/6/23	Technician		1,868,057	882,345	2,221,994	2,221,994	2,750,402	5,171,019	24,482	--	9,964.27
10/7/23	*		--	--	--	--	--	--	--	--	9,964.27
10/8/23	*		--	--	--	--	--	--	--	--	9,964.28
10/9/23	*		--	--	--	--	--	--	--	--	9,964.28
10/10/23	*		--	--	--	--	--	--	--	--	9,964.29
10/11/23	Technician	1, 2	1,872,486	882,380	2,223,105	2,223,105	2,754,866	5,182,169	11,150	--	9,964.29
10/12/23	*		--	--	--	--	--	--	--	--	9,964.30
10/13/23	*		--	--	--	--	--	--	--	--	9,964.30
10/14/23	*		--	--	--	--	--	--	--	--	9,964.31
10/15/23	*		--	--	--	--	--	--	--	--	9,964.31
10/16/23	*		--	--	--	--	--	--	--	--	9,964.32
10/17/23	Technician	3, 4	1,877,801	882,421	2,224,437	2,224,437	2,760,222	5,195,549	13,380	--	9,964.32
10/18/23	Off line		--	--	--	--	--	--	--	--	9,964.32
10/19/23	Technician	5	1,879,573	882,435	2,224,882	2,224,882	2,762,008	5,196,126	577	--	9,964.32
10/20/23	*		--	--	--	--	--	--	--	--	9,964.32
10/21/23	*		--	--	--	--	--	--	--	--	9,964.32
10/22/23	*		--	--	--	--	--	--	--	--	9,964.33
10/23/23	Technician	6	1,883,116	882,463	2,225,770	2,225,770	2,765,579	5,197,281	1,155	--	9,964.33
10/24/23	Technician	7	1,885,306	883,423	2,227,494	2,227,494	2,768,729	5,201,490	4,209	--	9,964.34
10/25/23	Technician	8	1,887,496	884,383	2,229,218	2,229,218	2,771,879	5,205,699	4,209	590	9,964.36
10/26/23	*		--	--	--	--	--	--	--	--	9,964.36
10/27/23	*		--	--	--	--	--	--	--	--	9,964.36
10/28/23	*		--	--	--	--	--	--	--	--	9,964.36
10/29/23	*		--	--	--	--	--	--	--	--	9,964.36
10/30/23	*		--	--	--	--	--	--	--	--	9,964.36
10/31/23	Technician	9	1,887,496	884,383	2,229,218	2,229,218	2,771,879	5,206,656	957	--	9,964.36

Cumulative Groundwater Discharged by the GWETS to Date (gallons)							
Period	October	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	60,120	374,702	458,375	330,413	60,120	1,223,609	83,619,363

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	0.15	0.15	9,964.4

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

Legend / Notes:

- 1 = Media change out work conducted.
- 2 = LGAC-3 placed in standby position, LGAC-2 added to treatment process.
- 3 = Conducted annual flowmeter calibration.
- 4 = GWETS manually shut down for system troubleshooting.
- 5 = GWETS restarted.
- 6 = LGAC-1 placed in standby position.
- 7 = LGAC-3 added to treatment process.
- 8 = Collected monthly influent and effluent water samples for laboratory analysis.
- 9 = LGAC-3 placed in standby position, LGAC-1 added to treatment process.

- GWETS = Groundwater extraction and treatment system
- ug/L - Micrograms per liter
- A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
- = Not applicable
- lb = Pounds
- DRO = Diesel range organics

Groundwater extraction wells on line this month: GW-14R, GMW-31, GW-16
 * = Operational values interpolated from chart recorder data or previous monitoring event.

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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
11/1/23	Technician	1, 2	1,887,496	884,383	2,229,218	2,229,218	2,771,879	5,206,816	160	--	9,964.36
11/2/23	Technician		1,887,496	884,383	2,229,218	2,229,218	2,771,879	5,206,824	8	--	9,964.36
11/3/23	*		--	--	--	--	--	--	--	--	9,964.39
11/4/23	*		--	--	--	--	--	--	--	--	9,964.42
11/5/23	*		--	--	--	--	--	--	--	--	9,964.45
11/6/23	Technician		1,895,136	884,915	2,233,699	2,233,699	2,780,051	5,232,449	25,625	--	9,964.49
11/7/23	*		--	--	--	--	--	--	--	--	9,964.56
11/8/23	Technician	3	1,901,039	885,089	2,239,998	2,239,998	2,786,128	5,261,179	28,730	--	9,964.63
11/9/23	Technician		1,902,627	885,089	2,242,180	2,242,180	2,787,716	5,268,076	6,897	--	9,964.66
11/10/23	*		--	--	--	--	--	--	--	--	9,964.70
11/11/23	*		--	--	--	--	--	--	--	--	9,964.73
11/12/23	*		--	--	--	--	--	--	--	--	9,964.76
11/13/23	*		--	--	--	--	--	--	--	--	9,964.80
11/14/23	Technician	1	1,910,567	885,089	2,253,088	2,253,088	2,795,656	5,302,558	34,483	--	9,964.83
11/15/23	*		--	--	--	--	--	--	--	--	9,964.87
11/16/23	Technician	4	1,913,744	885,089	2,257,452	2,257,452	2,798,832	5,316,351	13,793	340	9,964.89
11/17/23	*		--	--	--	--	--	--	--	--	9,964.90
11/18/23	*		--	--	--	--	--	--	--	--	9,964.91
11/19/23	*		--	--	--	--	--	--	--	--	9,964.92
11/20/23	*		--	--	--	--	--	--	--	--	9,964.93
11/21/23	Technician		1,917,078	885,089	2,264,655	2,264,655	2,802,167	5,336,864	20,513	--	9,964.95
11/22/23	*		--	--	--	--	--	--	--	--	9,964.97
11/23/23	*		--	--	--	--	--	--	--	--	9,964.99
11/24/23	*		--	--	--	--	--	--	--	--	9,965.01
11/25/23	*		--	--	--	--	--	--	--	--	9,965.03
11/26/23	*		--	--	--	--	--	--	--	--	9,965.05
11/27/23	*		--	--	--	--	--	--	--	--	9,965.07
11/28/23	*		--	--	--	--	--	--	--	--	9,965.09
11/29/23	Technician		1,927,052	885,089	2,279,566	2,279,566	2,812,141	5,396,238	59,374	--	9,965.11
11/30/23	*		--	--	--	--	--	--	--	--	9,965.13

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	November	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	196,852	374,702	458,375	330,413	256,972	1,420,462	83,816,216

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	0.77	0.92	9,965.1

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

Legend / Notes:

- 1 = Media change out work conducted.
 - 2 = LGAC-1 placed in standby position, LGAC-3 added to treatment process.
 - 3 = GMW-31 pump offline pending maintenance.
 - 4 = Collected monthly water samples for laboratory analysis.
- Groundwater extraction wells on line this month: GW-14R, GWM-31, GW-16
 * = Operational values interpolated from chart recorder data or previous monitoring event.

- GWETS = Groundwater extraction and treatment system
- µg/L = Micrograms per liter
- A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
- = Not applicable
- lb = Pounds
- DRO = Diesel range organics

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

Date	Data Source	Notes	GW-14R Totalizer Reading (gallons)	GMW-31 Totalizer Reading (gallons)	GW-16 Totalizer Reading (gallons)	Groundwater Extracted from Eastern Area (gallons)	Groundwater Extracted from Central Area (gallons)	Discharge Totalizer Reading (gallons)	Groundwater Extracted and Treated (gallons)	Influent DRO (ug/L)	Cumulative DRO Removed ^A (lb)
12/1/23	Technician	1	1,929,546	885,089	2,283,294	2,283,294	2,814,635	5,411,082	14,844	--	9,965.16
12/2/23	Off line		--	--	--	--	--	--	--	--	9,965.16
12/3/23	Technician	2,3	1,929,546	885,089	2,283,294	2,283,294	2,814,635	5,411,082	0	--	9,965.16
12/4/23	*		--	--	--	--	--	--	--	--	9,965.18
12/5/23	*		--	--	--	--	--	--	--	--	9,965.20
12/6/23	*		--	--	--	--	--	--	--	--	9,965.22
12/7/23	*		--	--	--	--	--	--	--	--	9,965.25
12/8/23	*		--	--	--	--	--	--	--	--	9,965.27
12/9/23	*		--	--	--	--	--	--	--	--	9,965.29
12/10/23	*		--	--	--	--	--	--	--	--	9,965.31
12/11/23	*		--	--	--	--	--	--	--	--	9,965.34
12/12/23	*		--	--	--	--	--	--	--	--	9,965.36
12/13/23	Technician	4	1,950,197	885,089	2,302,021	2,302,021	2,835,286	5,490,789	79,707	550	9,965.40
12/14/23	*		--	--	--	--	--	--	--	--	9,965.43
12/15/23	*		--	--	--	--	--	--	--	--	9,965.47
12/16/23	*		--	--	--	--	--	--	--	--	9,965.51
12/17/23	*		--	--	--	--	--	--	--	--	9,965.55
12/18/23	Technician		1,959,151	885,089	2,312,820	2,312,820	2,844,239	5,531,779	40,990	--	9,965.58
12/19/23	*		--	--	--	--	--	--	--	--	9,965.60
12/20/23	*		--	--	--	--	--	--	--	--	9,965.61
12/21/23	*		--	--	--	--	--	--	--	--	9,965.62
12/22/23	*		--	--	--	--	--	--	--	--	9,965.64
12/23/23	*		--	--	--	--	--	--	--	--	9,965.65
12/24/23	*		--	--	--	--	--	--	--	--	9,965.66
12/25/23	*		--	--	--	--	--	--	--	--	9,965.68
12/26/23	*		--	--	--	--	--	--	--	--	9,965.69
12/27/23	Technician		1,964,005	885,089	2,319,768	2,319,768	2,849,094	5,557,573	25,794	--	9,965.70
12/28/23	Technician		1,964,545	885,089	2,320,540	2,320,540	2,849,633	5,560,439	2,866	--	9,965.72
12/29/23	Technician		1,964,660	885,089	2,322,223	2,322,223	2,849,748	5,565,846	5,407	--	9,965.74
12/30/23	*		--	--	--	--	--	--	--	--	9,965.76
12/31/23	*		--	--	--	--	--	--	--	--	9,965.77

Cumulative Groundwater Discharged by the GWETS (gallons)							
Period	December	Quarter 1, 2023	Quarter 2, 2023	Quarter 3, 2023	Quarter 4, 2023	2023 to Date	April 1996 to Date
Volume	168,832	374,702	458,375	330,413	425,804	1,589,294	83,985,048

Cumulative Mass DRO Removed by the GWETS ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	0.64	1.56	9,965.8

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

Legend / Notes:

- 1 = GWETS shut down pending media change out work.
- 2 = Media change out work conducted.
- 3 = GWETS restarted.
- 4 = Collected monthly influent and effluent water samples for laboratory analysis.

Groundwater extraction wells on line this month: GW-14R, GW-16.
 * = Operational values interpolated from chart recorder data or previous monitoring event.

GWETS = Groundwater extraction and treatment system
 ug/L - Micrograms per liter
 A = Hydrocarbon removal is calculated using analytical laboratory result for DRO (if not detected, half the detection limit used) from sample collected this month.
 -- = Not applicable
 lb = Pounds
 DRO = Diesel range organics

TABLE 3A
Carbon Vapor Extraction System Operations Summary - October
 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)
10/01/23	*		86,358	628	--	--	--	--	--	2,989,212
10/02/23	*		86,383	628	--	--	--	--	--	2,989,214
10/03/23	*		86,408	628	--	--	--	--	--	2,989,216
10/04/23	Technician		86,433	652	3.1	132.0	--	74.8	0.0	2,989,218
10/05/23	*		86,457	652	--	--	--	--	--	2,989,220
10/06/23	*		86,482	652	--	--	--	--	--	2,989,223
10/07/23	*		86,506	652	--	--	--	--	--	2,989,225
10/08/23	*		86,531	652	--	--	--	--	--	2,989,227
10/09/23	*		86,555	652	--	--	--	--	--	2,989,229
10/10/23	Technician		86,580	644	2.9	116.0	--	55.6	0.0	2,989,231
10/11/23	*		86,603	644	--	--	--	--	--	2,989,234
10/12/23	*		86,626	644	--	--	--	--	--	2,989,236
10/13/23	*		86,650	644	--	--	--	--	--	2,989,238
10/14/23	*		86,673	644	--	--	--	--	--	2,989,240
10/15/23	*		86,696	644	--	--	--	--	--	2,989,242
10/16/23	*		86,720	644	--	--	--	--	--	2,989,244
10/17/23	*		86,743	644	--	--	--	--	--	2,989,246
10/18/23	*		86,767	644	--	--	--	--	--	2,989,248
10/19/23	Technician	1	86,790	623	3.4	115.0	7.9	62.3	0.0	2,989,250
10/20/23	*		86,811	623	--	--	--	--	--	2,989,252
10/21/23	*		86,832	623	--	--	--	--	--	2,989,254
10/22/23	*		86,853	623	--	--	--	--	--	2,989,256
10/23/23	*		86,874	623	--	--	--	--	--	2,989,257
10/24/23	*		86,895	623	--	--	--	--	--	2,989,259
10/25/23	Technician		86,937	623	--	118.0	--	48.9	0.0	2,989,263
10/26/23	*		86,937	623	--	--	--	--	--	2,989,263
10/27/23	*		86,962	623	--	--	--	--	--	2,989,265
10/28/23	*		86,988	623	--	--	--	--	--	2,989,267
10/29/23	*		87,014	623	--	--	--	--	--	2,989,269
10/30/23	*		87,039	623	--	--	--	--	--	2,989,272
10/31/23	*		87,065	623	--	--	--	--	--	2,989,274

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	October	Quarter 4 to Date	April 1996 to Date
Mass	67	67	2,989,274

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

Legend / Notes:

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

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

-- = Not applicable or not measured

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

VES = Soil vapor extraction system

in. Hg = Inches of mercury

ppmv = Parts per million by volume

scfm = Standard cubic feet per minute

°F = Degrees Fahrenheit

lb = Pounds

A = Reading from chart recorder.

B = Concentrations obtained with a calibrated organic vapor analyzer.

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

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

TABLE 3B
Carbon Vapor Extraction System Operations Summary - November
 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)
11/01/23	*		87,094	623	--	--	--	--	--	2,989,297
11/02/23	Technician		87,117	636	2.3	107.0	--	59.0	0.0	2,989,300
11/03/23	*		87,141	636	--	--	--	--	--	2,989,304
11/04/23	*		87,165	636	--	--	--	--	--	2,989,308
11/05/23	*		87,189	636	--	--	--	--	--	2,989,311
11/06/23	*		87,214	636	--	--	--	--	--	2,989,315
11/07/23	*		87,238	636	--	--	--	--	--	2,989,319
11/08/23	*		87,262	636	--	--	--	--	--	2,989,322
11/09/23	Technician		87,287	633	2.2	125.0	--	50.1	0.0	2,989,326
11/10/23	*		87,311	633	--	--	--	--	--	2,989,330
11/11/23	*		87,336	633	--	--	--	--	--	2,989,333
11/12/23	*		87,360	633	--	--	--	--	--	2,989,337
11/13/23	*		87,385	633	--	--	--	--	--	2,989,341
11/14/23	*		87,409	633	--	--	--	--	--	2,989,344
11/15/23	Technician		87,434	603	2.1	104.0	10	60.5	0.0	2,989,348
11/16/23	*		87,457	603	--	--	--	--	--	2,989,351
11/17/23	*		87,481	603	--	--	--	--	--	2,989,355
11/18/23	*		87,505	603	--	--	--	--	--	2,989,358
11/19/23	*		87,528	603	--	--	--	--	--	2,989,361
11/20/23	Technician		87,552	651	--	129.0	--	54.8	0.0	2,989,365
11/21/23	*		87,576	651	--	--	--	--	--	2,989,369
11/22/23	*		87,600	651	--	--	--	--	--	2,989,372
11/23/23	*		87,624	651	--	--	--	--	--	2,989,376
11/24/23	*		87,648	651	--	--	--	--	--	2,989,380
11/25/23	*		87,671	651	--	--	--	--	--	2,989,383
11/26/23	*		87,695	651	--	--	--	--	--	2,989,387
11/27/23	*		87,719	651	--	--	--	--	--	2,989,391
11/28/23	*		87,743	651	--	--	--	--	--	2,989,394
11/29/23	Technician		87,767	637	--	120.0	--	83.7	0.0	2,989,398
11/30/23	*		87,792	637	--	--	--	--	--	2,989,402

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	November	Quarter 4 to Date	April 1996 to Date
Mass	128	194	2,989,402

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

Legend / Notes:

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

-- = Not applicable or not measured

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

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

VES = Soil vapor extraction system

scfm = Standard cubic feet per minute

A = Reading from chart recorder.

B = Concentrations obtained with a calibrated organic vapor analyzer.

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

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

in. Hg = Inches of mercury

°F = Degrees Fahrenheit

ppmv = Parts per million by volume

lb = Pounds

TABLE 3C
Carbon Vapor Extraction System Operations Summary - December
 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)
12/01/23	*		87,817	637	--	--	--	--	--	2,989,412
12/02/23	*		87,842	637	--	--	--	--	--	2,989,417
12/03/23	*		87,867	637	--	--	--	--	--	2,989,422
12/04/23	Technician	1, 2	87,893	647	--	122.0	14	77.6	0.0	2,989,427
12/05/23	*		87,916	647	--	--	--	--	--	2,989,431
12/06/23	*		87,940	647	--	--	--	--	--	2,989,436
12/07/23	*		87,964	647	--	--	--	--	--	2,989,441
12/08/23	*		87,988	647	--	--	--	--	--	2,989,446
12/09/23	*		88,012	647	--	--	--	--	--	2,989,451
12/10/23	*		88,036	647	--	--	--	--	--	2,989,455
12/11/23	Technician		88,060	641	2.4	127.0	--	74.3	0.0	2,989,460
12/12/23	*		88,083	641	--	--	--	--	--	2,989,465
12/13/23	*		88,106	641	--	--	--	--	--	2,989,469
12/14/23	*		88,129	641	--	--	--	--	--	2,989,474
12/15/23	*		88,152	641	--	--	--	--	--	2,989,478
12/16/23	*		88,175	641	--	--	--	--	--	2,989,483
12/17/23	*		88,198	641	--	--	--	--	--	2,989,488
12/18/23	Technician		88,221	623	1.7	117.0	--	48.6	0.0	2,989,492
12/19/23	*		88,248	623	--	--	--	--	--	2,989,497
12/20/23	Technician	3	88,276	623	--	--	--	--	--	2,989,503
12/21/23	*		88,299	623	--	--	--	--	--	2,989,507
12/22/23	*		88,320	623	--	--	--	--	--	2,989,511
12/23/23	*		88,343	623	--	--	--	--	--	2,989,516
12/24/23	*		88,365	623	--	--	--	--	--	2,989,520
12/25/23	*		88,388	623	--	--	--	--	--	2,989,524
12/26/23	*		88,410	623	--	--	--	--	--	2,989,529
12/27/23	Technician		88,438	650	--	100.0	--	--	--	2,989,534
12/28/23	Technician		88,455	656	2.5	95.0	--	125.2	0.0	2,989,538
12/29/23	*		88,480	656	--	--	--	--	--	2,989,543
12/30/23	*		88,504	656	--	--	--	--	--	2,989,548
12/31/23	*		88,529	656	--	--	--	--	--	2,989,553

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	December	Quarter 4 to Date	April 1996 to Date
Mass	151	346	2,989,553

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

Legend / Notes :

- 1 = Media change out work conducted.
 - 2 = Collected monthly influent, after GAC-1, after GAC-2, and Effluent samples for laboratory analysis.
 - 3 = Trunklines 1, 5 & 6 brought into system

 - = Not applicable or not measured
 - * = Operational values interpolated from chart recorder data or previous monitoring event.
- Vapor extraction wells on line this month: HW-1, HW-9, HW-5, HW-7, Trunkline #1, Trunkline #2

- VES = Soil vapor extraction system
- scfm = Standard cubic feet per minute
- A = Reading from chart recorder.
- B = Concentrations obtained with a calibrated organic vapor analyzer.
- C = Concentrations correlated to laboratory data and expressed as hexane.
- D = Hydrocarbon removal is calculated using analytical laboratory results for GRO (if not detected, half the detection limit is used)

- in. Hg = Inches of mercury
- °F = Degrees Fahrenheit
- ppmv = Parts per million by volume
- lb = Pounds

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

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane ^A		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				Field OVA Reading (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
09/17/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	5.6	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0

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

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.2	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
11/17/14	5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.3	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
12/17/14		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	0.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
01/14/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
02/20/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	1.5	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
03/27/15		VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	3.4	<4.9	<20	<5.6	<20	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
04/27/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	8015M & 8260M	132	140	580	160	580	0.63	2.0	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	0.23	1.0	0.23	1.0	<0.6	<2.0
05/29/15	6,7	--	8015M & 8260M	103	83	340	97	340	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
06/03/15	6,8	VEW-32, VEW-33, VEW-34	8015M & 8260M	47	32	130	37	130	<0.16	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.3	<1.5	<0.6	<2.0
07/09/15	6	VEW-32, VEW-33, VEW-34	8015M & 8260M	162	150	600	170	600	<0.16	<0.50	0.15	0.58	<0.12	<0.50	0.67	2.9	0.71	3.1	1.38	6.0	<0.55	<2.0
07/15/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	147	170	700	200	700	<0.16	<0.50	0.53	2.0	0.18	0.78	0.99	4.3	1.5	6.3	2.49	10.6	<0.55	<2.0
07/21/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	259	160	640	180	640	<0.16	<0.50	0.25	0.94	<0.12	<0.50	0.71	3.1	0.62	2.7	1.33	5.8	<0.55	<2.0
07/29/15	6,9	VEW-32, VEW-33, VEW-34	8015M & 8260M	129	170	710	200	710	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.32	1.4	0.25	1.1	0.57	2.5	<0.55	<2.0
08/17/15	6,10	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	8015M & 8260M	135	130	550	160	550	0.75	2.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.28	1.2	0.28	1.2	<0.55	<2.0
09/09/15	6,11	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	202	190	760	220	760	0.30	0.95	0.74	2.8	0.76	3.3	0.69	3.0	2.5	11	3.19	14	<0.55	<2.0
09/22/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	225	150	600	170	600	0.27	0.85	0.37	1.4	<0.12	<0.50	0.71	3.1	0.58	2.5	1.29	5.6	<0.55	<2.0
09/25/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	258	220	890	250	890	0.41	1.3	0.64	2.4	0.17	0.75	0.74	3.2	0.85	3.7	1.59	6.9	<0.55	<2.0
10/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	256	230	940	270	940	0.69	2.2	0.82	3.1	0.22	0.97	0.41	1.8	1.1	4.6	1.51	6.4	<0.55	<2.0
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	380	290	1,200	340	1,200	0.88	2.8	1.6	5.9	0.25	1.1	1.4	6.2	2.1	9.0	3.5	15	<0.55	<2.0
12/07/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	346	320	1,300	370	1,300	0.69	2.2	1.9	7.0	0.15	0.64	0.76	3.3	0.94	4.1	1.7	7.4	<0.55	<2.0
01/13/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	141	110	470	130	470	0.16	0.52	0.29	1.1	<0.12	<0.50	0.22	0.95	0.30	1.3	0.52	2.3	<0.55	<2.0
02/10/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	98	400	110	400	0.59	1.9	0.66	2.5	0.23	1.0	0.39	1.7	0.6	2.6	0.99	4.3	<0.55	<2.0
03/02/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	92	54	220	63	220	<0.16	<0.50	0.25	0.93	<0.12	<0.50	0.14	0.62	<0.23	<1.0	0.14	0.62	<0.55	<2.0
04/06/16	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	124	120	490	140	490	0.38	1.2	0.29	1.1	<0.12	<0.50	0.17	0.72	<0.23	<1.0	0.17	0.72	<0.55	<2.0
05/04/16	6,7	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	107	100	410	120	410	0.31	1.0	0.20	0.77	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/16	6,12	VEW-32, VEW-33, HW-1, HW-3, HW-5	8015M & 8260M	73	59	240	68	240	0.59	1.9	0.50	1.9	<0.12	<0.50	0.41	1.8	0.51	2.2	0.92	4.0	<0.55	<2.0
07/06/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	49	37	150	43	150	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/01/16	6,13	HW-1, HW-3, HW-5	8015M & 8260M	46	18	75	21	75	0.41	1.3	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/12/16	6,13,14	HW-1, HW-3, HW-5	8015M & 8260M	43	19	79	22	79	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/01/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	114	81	330	94	330	0.53	1.7	0.23	0.86	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
12/05/16	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	86	350	100	350	0.31	1.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/09/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	86	68	280	80	280	0.63	2.0	0.24	0.89	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/06/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	93	66	270	77	270	0.44	1.4	0.19	0.72	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/15/17	6,13	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	96	76	310	88	310	0.53	1.7	0.24	0.9	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
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

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

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
04/17/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	138	150	610	170	610	1.1	3.5	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.23	1.0	0.23	1.0	<0.55	<2.0
05/03/17	15	HW-1, HW-3, HW-5, HW-7	8015M & 8260M	141	120	510	140	510	0.69	2.2	0.58	2.2	0.12	0.51	<0.12	<0.50	0.35	1.5	0.35	1.5	<0.55	<2.0
06/05/17	15	HW-1, HW-3, HW-5	8015M & 8260M	136	110	430	120	430	0.81	2.6	0.40	1.5	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/27/17	15,17	HW-1, HW-3, HW-5, VEW-38, VEW-39, VEW-40	8015M & 8260M	--	140	560	160	560	0.38	1.2	0.20	0.75	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/19/17		HW-5, HW-7 and VEW-39	8015M & 8260M	199	120	500	140	500	0.75	2.4	0.45	1.7	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/09/17	18,19	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	695	560	2,300	650	2,300	0.69	2.2	0.29	1.1	0.53	2.3	<0.12	<0.50	0.44	1.9	0.44	1.9	<0.55	<2.0
09/07/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	767	610	2,500	710	2,500	1.2	3.9	0.48	1.8	0.46	2.0	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
10/12/17	19,20	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	536	370	1,500	430	1,500	1.0	3.2	0.32	1.2	0.41	1.8	0.20	0.88	0.83	3.6	1.0	4.5	<0.55	<2.0
11/02/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	300	240	970	270	970	0.78	2.5	0.24	0.89	0.28	1.2	<0.12	<0.50	0.51	2.2	0.51	2.2	<0.55	<2.0
12/11/17	19	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	8015M & 8260M	335	270	1,100	300	1,100	0.85	2.7	0.27	1.0	0.21	0.9	<0.12	<0.50	0.37	1.6	0.37	1.6	<0.55	<2.0
01/11/18	21	HW-1, HW-5, HW-7	8015M & 8260M	269	240	970	270	970	1.1	3.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	148	86	350	88	350	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/28/18	21	HW-1, HW-5, HW-7	8015M & 8260M	201	160	670	170	670	0.59	1.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	191	150	620	160	620	0.25	0.79	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	149	110	470	150	470	0.16	0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	95	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/02/18	21	HW-1, HW-5, HW-7	8015M & 8260M	135	120	490	120	490	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/06/18	21	HW-1, HW-5, HW-7	8015M & 8260M	134	49	200	48	200	0.3	0.95	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/13/18	21	HW-1, HW-5, HW-7	8015M & 8260M	109	49	200	50	200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/29/18	21	HW-1, HW-5, HW-7	8015M & 8260M	118	66	270	59	270	0.44	1.4	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/14/18	21	HW-1, HW-5, HW-7	8015M & 8260M	202	200	800	170	800	1.3	4.2	0.69	2.6	<0.12	<0.5	<0.12	<0.5	0.35	1.5	<0.35	<1.5	<0.55	<2.0
12/12/18	21	HW-1, HW-5, HW-7	8015M & 8260M	130	98	400	87	400	0.59	1.9	0.21	0.79	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/28/19	21	HW-1, HW-5, HW-7	8015M & 8260M	228	220	880	190	880	1.3	4.0	0.27	1.0	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/12/19	21	HW-1, HW-5, HW-7	8015M & 8260M	258	240	1,000	220	1,000	1.0	3.3	0.23	0.88	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/03/19	21, 22	HW-1, HW-5, HW-7	8015M & 8260M	394	73	300	65	300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/25/19	23	HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	164	42	170	38	170	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.1	<0.35	<1.6	<0.55	<2.0
12/30/19		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	39	7.1	29	6.3	29	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	15	5.4	22	<5.7	22	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015M & 8260M	12	<4.9	<20	<5.7	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/27/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	16	<4.9	<20	<5.7	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/16/20	24	HW-1, HW-5, HW-7	8015 & 8260B	105	18.09	74	16	74	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/01/20	25	HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	47	8.31	34	7.5	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	87	9.5	39	8.6	39	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	119	17	68	15	68	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	8015 & 8260B	151	24	98	21	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/20/20		HW-1, HW-9, HW-7, Trunkline #1, Trunkline #2	8015 & 8260B	572	98	400	79	400	0.19	0.6	0.16	0.59	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0

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

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane ^A		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
08/24/20		HW-1, HW-9, HW-7, Trunkline #1, Trunkline #2	8015 & 8260B	797	93	380	69	380	0.17	0.53	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
09/14/20		HW-1, HW-9, HW-7, Trunkline #2	8015 & 8260B	397	44	180	33	180	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
10/05/20		HW-1, HW-9, HW-7	8015 & 8260B	80	13	54	9.8	54	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/05/20	26	HW-1, HW-9, HW-7, Trunkline #2	8015 & 8260B	392	34	140	25	140	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
11/30/20		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	398	29	120	22	120	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
02/24/21		HW-1, HW-9, HW-5, HW-7	8015 & 8260B	38	<4.9	<20	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
03/08/21		HW-1, HW-8, HW-9, HW-5, HW-7	8015 & 8260B	53	6.8	28	5.1	28	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
04/19/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	238	22	90	16	90	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/08/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	177	21	86	16	86	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
06/21/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	247	18	73	13	73	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
07/07/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	196	22	90	16	90	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.35	<1.5	<0.55	<2.0
08/09/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	203	17	69	13	69	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
09/20/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	155	16	64	12	64	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
10/18/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	152	14	56	10	56	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
11/10/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	191	29	120	21	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
12/06/21		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	315	46	190	35	190	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
01/18/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	212	32	130	25	130	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
02/09/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	151	27	110	19	110	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
03/09/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	327	29	120	22	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
04/20/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	306	34	140	25	140	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
05/10/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	287	37	150	27	150	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
06/16/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	306	23	95	17	95	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
07/12/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	226	24	100	18	100	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
08/08/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	216	21	87	16	87	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
09/20/22		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	229	27	110	20	110	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
11/10/22	27	HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	157	18	74	13	74	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
12/14/22	28	HW-1, HW-9, HW-5, Trunkline #2	8015 & 8260B	48	6.1	25	5.5	25	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
01/31/23	29	HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	392	27	110	25	110	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
02/21/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	350	18	73	13	73	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
03/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	201	14	58	11	58	0.09	0.28	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
04/19/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	263	22	88	16	88	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
05/25/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	194	11	43	6.9	43	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
06/08/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	160	9.3	38	6.2	38	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
07/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	55	9.3	38	6.2	38	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
08/15/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	62	11	43	7.1	43	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
09/26/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	64	8.3	34	5.5	34	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
10/19/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	62	9.0	37	7.9	37	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0

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

Sample Date	Notes	Vapor Extraction System Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		Total Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
11/15/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	61	15	63	10	63	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0
12/04/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8015 & 8260B	78	20	83	14	83	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75	<0.28	<1.0

Legend / Notes:

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

Influent vapor sample inadvertently not collected during August 2016.

VES = Vapor extraction system

GRO = Gasoline range organics

- Reported concentrations are shown in bold.

MTBE = Methyl tertiary-butyl ether

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

ppmv = Parts per million by volume

µg/L = Micrograms per liter

-- = Not available or not analyzed

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

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

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

2 = VES restarted.

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

4 = VES manually shut down.

5 = VES restarted on 11/03/14.

6 = Select soil biopiles also on line.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
10/01/23	*		31,275	713	--	--	--	--	--	371,747
10/02/23	*		31,299	713	--	--	--	--	--	371,771
10/03/23	*		31,322	713	--	--	--	--	--	371,794
10/04/23	Technician		31,346	710	84	760	--	136	6	371,817
10/05/23	*		31,370	710	--	--	--	--	--	371,841
10/06/23	*		31,395	710	--	--	--	--	--	371,865
10/07/23	*		31,419	710	--	--	--	--	--	371,889
10/08/23	*		31,443	710	--	--	--	--	--	371,913
10/09/23	*		31,468	710	--	--	--	--	--	371,937
10/10/23	Technician		31,492	716	74	756	--	126	12	371,961
10/11/23	*		31,514	716	--	--	--	--	--	371,983
10/12/23	*		31,536	716	--	--	--	--	--	372,005
10/13/23	*		31,559	716	--	--	--	--	--	372,027
10/14/23	*		31,581	716	--	--	--	--	--	372,049
10/15/23	*		31,603	716	--	--	--	--	--	372,071
10/16/23	*		31,625	716	--	--	--	--	--	372,093
10/17/23	*		31,648	716	--	--	--	--	--	372,115
10/18/23	*		31,670	716	--	--	--	--	--	372,137
10/19/23	Technician	1	31,692	702	95	761	62	74	2	372,159
10/20/23	*		31,716	702	--	--	--	--	--	372,183
10/21/23	*		31,740	702	--	--	--	--	--	372,206
10/22/23	*		31,764	702	--	--	--	--	--	372,230
10/23/23	*		31,789	702	--	--	--	--	--	372,253
10/24/23	*		31,813	702	--	--	--	--	--	372,277
10/25/23	*		31,837	702	--	--	--	--	--	372,300
10/26/23	Technician		31,861	715	89	753	--	74	3	372,324
10/27/23	*		31,884	715	--	--	--	--	--	372,347
10/28/23	*		31,908	715	--	--	--	--	--	372,370
10/29/23	*		31,931	715	--	--	--	--	--	372,393
10/30/23	*		31,954	715	--	--	--	--	--	372,416
10/31/23	*		31,977	715	--	--	--	--	--	372,439

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	October	Quarter 4 to Date	January 2018 to Date
Mass	738.7	738.7	380,280.4

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

Legend / Notes:

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

System operating under SCAQMD Permit #G52288

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

Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)

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

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

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

TABLE 5B
Thermal Oxidizer Vapor Extraction System Operations Summary - November
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
11/01/23	*		32,001	715	--	--	--	--	--	372,457
11/02/23	Technician		32,024	766	94	757	--	70	6	372,476
11/03/23	*		32,048	766	--	--	--	--	--	372,495
11/04/23	*		32,073	766	--	--	--	--	--	372,515
11/05/23	*		32,097	766	--	--	--	--	--	372,534
11/06/23	*		32,122	766	--	--	--	--	--	372,554
11/07/23	*		32,146	766	--	--	--	--	--	372,574
11/08/23	*		32,171	766	--	--	--	--	--	372,593
11/09/23	Technician		32,195	726	95	761	--	74	2	372,612
11/10/23	*		32,220	726	--	--	--	--	--	372,631
11/11/23	*		32,244	726	--	--	--	--	--	372,649
11/12/23	*		32,269	726	--	--	--	--	--	372,668
11/13/23	*		32,293	726	--	--	--	--	--	372,687
11/14/23	*		32,318	726	--	--	--	--	--	372,705
11/15/23	Technician	1	32,342	704	98	755	46	74	11	372,723
11/16/23	*		32,365	704	--	--	--	--	--	372,741
11/17/23	*		32,389	704	--	--	--	--	--	372,758
11/18/23	*		32,412	704	--	--	--	--	--	372,775
11/19/23	*		32,436	704	--	--	--	--	--	372,792
11/20/23	Technician		32,459	676	81	757	--	--	--	372,809
11/21/23	*		32,483	676	--	--	--	--	--	372,826
11/22/23	*		32,507	676	--	--	--	--	--	372,843
11/23/23	*		32,530	676	--	--	--	--	--	372,860
11/24/23	*		32,554	676	--	--	--	--	--	372,876
11/25/23	*		32,578	676	--	--	--	--	--	372,893
11/26/23	*		32,602	676	--	--	--	--	--	372,910
11/27/23	*		32,625	676	--	--	--	--	--	372,927
11/28/23	*		32,649	676	--	--	--	--	--	372,944
11/29/23	Technician		32,673	614	30	754	--	60	5	372,959
11/30/23	*		32,686	614	--	--	--	--	--	372,967

Cumulative Mass TPHg Removed by the VES ^D (lb)			
Period	November	Quarter 4 to Date	January 2018 to Date
Mass	527.9	1,266.6	380,808.2

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

Legend / Notes:

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

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

System operating under SCAQMD Permit #G52288

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

Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)

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

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

TABLE 5C
Thermal Oxidizer Vapor Extraction System Operations Summary - December
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	VES Hour Meter Reading (hours)	VES Process Flow ^A (scfm)	VES Manifold Vacuum (in. WC)	Oxidizer Inlet Temperature TE1 Excess Controller (°F)	Laboratory Process GRO Concentration (ppmv)	Field Inlet Process Oxidizer Concentration ^{B,C} (ppmv)	Field Effluent Concentration ^{B,C} (ppmv)	Cumulative Vapor-Phase GRO Removed ^D (lb)
12/01/23	Technician	1	32,698	614	--	--	--	--	--	372,976
12/02/23	Off line		32,704	614	--	--	--	--	--	372,980
12/03/23	Off line		32,714	614	--	--	--	--	--	372,986
12/04/23	Technician	2, 3	32,723	0	--	--	--	--	--	372,986
12/05/23	Off line		32,723	0	--	--	--	--	--	372,986
12/06/23	Technician	2	32,723	603	46	757	--	--	--	372,986
12/07/23	*		32,750	603	--	--	--	--	--	373,004
12/08/23	Technician		32,777	524	--	--	--	--	4	373,019
12/09/23	*		32,800	524	--	--	--	--	--	373,032
12/10/23	*		32,824	524	--	--	--	--	--	373,046
12/11/23	Technician	4	32,847	510	44	750	47	84	10	373,059
12/12/23	*		32,870	510	--	--	--	--	--	373,071
12/13/23	*		32,893	510	--	--	--	--	--	373,084
12/14/23	*		32,916	510	--	--	--	--	--	373,097
12/15/23	*		32,940	510	--	--	--	--	--	373,110
12/16/23	*		32,963	510	--	--	--	--	--	373,123
12/17/23	*		32,986	510	--	--	--	--	--	373,135
12/18/23	Technician		33,009	436	35	748	--	76	6	373,146
12/19/23	*		33,036	436	--	--	--	--	--	373,159
12/20/23	Technician	5	33,063	510	--	--	--	--	--	373,174
12/21/23	*		33,086	510	--	--	--	--	--	373,187
12/22/23	*		33,110	510	--	--	--	--	--	373,200
12/23/23	*		33,133	510	--	--	--	--	--	373,213
12/24/23	*		33,156	510	--	--	--	--	--	373,226
12/25/23	*		33,179	510	--	--	--	--	--	373,239
12/26/23	*		33,203	510	--	--	--	--	--	373,251
12/27/23	*		33,226	510	--	--	--	--	--	373,264
12/28/23	Technician		33,249	510	26	856	--	182	4	373,277
12/29/23	Technician		33,277	510	--	--	--	--	--	373,293
12/30/23	*		33,291	510	--	--	--	--	--	373,300
12/31/23	*		33,304	510	--	--	--	--	--	373,308

Cumulative Mass TPHg Removed by the VES ^A (lb)			
Period	December	Quarter 4 to Date	January 2018 to Date
Mass	340.5	1,607.1	381,148.7

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

Legend / Notes:
 1 = VES automatically shut down prior to technician arrival. Left offline pending troubleshooting.
 2 = VES restarted.
 3 = VES manually shut down pending maintenance.
 4 = Collected monthly influent and effluent samples for laboratory analysis.
 5 = Trunklines 1, 5 & 6 diverted to Carbon VES.

System operating under SCAQMD Permit #G52288
Vapor extraction wells on line this month (grouped by location):
 Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33, TFR-44, TFR-45), (TFR-29, TFR-41, TFR-42, TFR-43), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-39, TFR-40, HW-10, HW-11), (HW-12, HW-13, HW-14); Eastern Area - (RW-1), (RW-3, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).

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

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

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

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

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

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
08/05/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15, TFR-16), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,620	2,700	11,000	2,500	11,000	6.6	21	0.37	1.6	<0.55	<2.0	0.77	2.9	0.25	1.1	0.94	4.1	1.19	5.2
09/09/19	6	Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,180	2,300	9,600	2,100	9,600	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	7.18	8.1
10/31/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	2,176	3,400	14,000	3,100	14,000	5.6	18	0.92	4.0	<0.55	<2.0	0.61	2.3	0.46	2.0	2.2	9.7	2.66	12
11/20/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,290	3,200	13,000	2,800	13,000	2.0	6.5	0.83	3.6	<0.55	<2.0	0.53	2.0	0.39	1.7	1.3	5.8	1.69	7.5
12/16/19		Central Area - (TFR-21, TFR-26, TFR-27, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,566	3,400	14,000	3,000	14,000	5.0	16	1.0	4.4	<0.55	<2.0	0.72	2.7	0.28	1.2	1.6	6.9	1.88	8.1
1/15/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	1,446	2,400	10,000	2,300	10,000	2.20	7.10	0.69	3.00	<1.1	<4	0.93	3.50	0.62	2.70	1.70	7.40	2.32	10
2/18/2020		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, RFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	996	1,900	7,800	1,700	7,800	2.10	6.80	0.55	2.40	<.55	<2	0.80	3.00	0.55	2.40	1.40	6.20	1.95	8.6
3/16/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TFR-29, TFR-32, TFR-35, TFR-36, TFR-37), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-5, TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	864	1,198	4,900	313	1,100	1.94	6.20	0.41	1.80	<.55	<2	0.74	2.80	0.48	2.10	1.22	5.30	1.7	7.4

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
4/15/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TFR-29, TFR-32, TFR-35, TFR-36, TFR-37), (TFR-17, TFR-18, RFR-19, TFR-22, TFR-25), (TFR-11, TFR-13, TFR-14, TFR-15), (TFR-5, TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1, RW-6, RW-15, RW-16, RW-17), (VEW-32, VEW-37, RW-2, RW-7, RW-11), (VEW-33, VEW-36, RW-8, RW-12, RW-18), (VEW-34, VEW-35, RW-13, RW-14), (RW-3, RW-4, RW-5, RW-9, RW-10); Southern Area - (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-38, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42, RW-46), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	606	830	3,400	740	3,400	0.94	3.00	0.18	0.80	<.55	<2	0.42	1.60	0.25	1.10	0.55	2.40	0.8	3.5
5/15/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19, TFR-22), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	522	1,100	4,600	960	4,600	0.78	2.50	0.28	1.20	<.55	<2	0.48	1.80	0.37	1.60	0.88	3.80	1.25	5.4
6/22/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015M & 8260M	708	1,900	7,700	1,700	7,700	1.50	4.90	0.20	0.86	<.55	<2	0.32	1.20	0.30	1.30	0.60	2.60	0.9	3.9
7/20/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015 & 8260B	630	950	3,900	--	3,900	1.10	3.50	0.21	0.91	<0.55	<2.0	0.42	1.60	0.48	2.10	0.71	3.10	1.19	5.2
9/14/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-17, TFR-18, TFR-19), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015 & 8260B	748	1,900	7,700	--	7,700	3.40	11.00	0.35	1.50	<0.55	<2.0	0.40	1.50	0.35	1.50	0.85	3.70	1.2	5.2
10/5/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50).	8015 & 8260B	582	1,300	5,300	--	5,300	1.20	3.90	0.22	0.96	<0.55	<2.0	0.58	2.20	0.25	1.10	0.62	2.70	0.87	3.8
11/4/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	554	1,900	7,900	1,400	7,900	1.20	3.90	0.32	1.40	<0.55	<2.0	0.85	3.20	0.35	1.50	0.81	3.50	1.16	5.0
12/7/2020		Central Area - (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12), (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34); Eastern Area - (RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-29), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49).	8015 & 8260B	512	1,300	5,500	1,000	5,500	0.94	3.00	0.35	1.50	<0.55	<2.0	0.74	2.80	0.37	1.60	0.85	3.70	1.22	5.3

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

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

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				Field OVA Reading	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
9/20/2021		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	412	320	1,300	240	1,300	0.44	1.40	0.32	1.40	<0.28	<1.0	0.37	1.40	0.30	1.30	0.83	3.60	1.13	4.9
10/18/2021		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	436	440	1,800	330	1,800	0.85	2.70	0.37	1.60	<0.28	<1.0	0.45	1.70	0.37	1.60	1.00	4.50	1.37	6.1
11/10/2021		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	446	610	2,500	450	2,500	1.10	3.40	0.28	1.20	<0.28	<1.0	0.32	1.20	0.23	1.00	0.69	3.00	0.92	4.0
12/6/2021		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	458	640	2,600	470	2,600	0.63	2.00	0.35	1.50	<0.28	<1.0	0.42	1.60	0.30	1.30	0.99	4.30	1.29	5.6
1/18/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	498	610	2,500	460	2,500	1.10	3.60	0.37	1.60	<0.28	<1.0	0.45	1.70	0.25	1.10	0.92	4.00	1.17	5.1
2/9/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	436	540	2,200	390	2,200	0.75	2.40	0.22	0.97	<0.28	<1.0	0.32	1.20	0.21	0.90	0.69	3.00	0.9	3.9
3/9/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	402	540	2,200	400	2,200	0.81	2.60	0.25	1.10	<0.28	<1.0	0.42	1.60	0.30	1.30	0.83	3.60	1.13	4.9
4/20/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	310	370	1,500	280	1,500	0.41	1.30	0.21	0.93	<0.28	<1.0	0.24	0.89	0.25	1.10	0.62	2.70	0.87	3.8

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
5/10/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	356	390	1,600	290	1,600	0.53	1.70	0.25	1.10	<0.28	<1.0	0.32	1.20	0.28	1.20	0.81	3.50	1.09	4.7
6/16/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	290	370	1,500	270	1,500	0.41	1.30	0.17	0.72	<0.28	<1.0	0.29	1.10	0.21	0.90	0.58	2.50	0.79	3.4
7/12/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	356	540	2,200	390	2,200	0.56	1.80	0.30	1.30	<0.28	<1.0	0.37	1.40	0.35	1.50	1.10	4.60	1.45	6.1
8/8/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	292	290	1,200	220	1,200	0.41	1.30	0.18	0.76	<0.28	<1.0	0.18	0.69	0.16	0.70	0.53	2.30	0.69	3.0
9/20/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	130	370	1,500	270	1,500	0.56	1.80	0.18	0.80	<0.28	<1.0	0.20	0.74	0.20	0.87	0.55	2.40	0.75	3.27
10/26/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	320	370	1,500	270	1,500	0.41	1.30	0.14	0.61	<0.28	<1.0	0.09	0.32	0.13	0.58	0.37	1.60	0.5	2.18
11/10/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	234	290	1,200	210	1,200	0.41	1.30	0.12	0.52	<0.28	<1.0	0.10	0.37	0.12	0.54	0.37	1.60	0.49	2.14
12/14/2022		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	294	290	1,200	270	1,200	0.28	0.89	0.15	0.66	<0.28	<1.0	0.07	0.28	0.13	0.56	0.35	1.50	0.48	2.06

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
2/21/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	282	290	1,200	230	1,200	0.34	1.10	0.23	1.00	<0.28	<1.0	<0.066	<0.25	0.09	0.40	0.44	1.90	0.53	2.3
3/13/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	247	220	910	170	910	0.23	0.72	0.11	0.47	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	0.23	1.00	0.26	1.13
4/19/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	160	120	510	94	510	<0.078	<0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75
5/25/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	157	220	900	150	900	0.14	0.46	0.088	0.38	<0.28	<1.0	0.080	0.30	0.078	0.34	0.23	1.00	0.26	1.13
6/8/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	130	160	670	110	670	<0.078	<0.25	0.060	0.26	<0.28	<1.0	<0.066	<0.25	0.069	0.30	0.18	0.76	0.21	0.89
7/13/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	104	170	680	110	680	0.12	0.38	0.088	0.38	<0.28	<1.0	<0.066	<0.25	0.130	0.55	0.30	1.30	0.33	1.43
8/15/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	154	240	1,000	160	1,000	0.21	0.66	0.083	0.36	<0.28	<1.0	0.069	0.26	0.150	0.66	0.30	1.30	0.33	1.43
9/26/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	94	110	460	75	460	0.08	0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	0.15	0.64	0.18	0.77
10/19/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	72	90	370	62	370	<0.078	<0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75

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

Sample Date	Notes	VES Wells On Line	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		VOCs as Hexane ^A		Benzene		Ethylbenzene		MTBE		Toluene		o-Xylene		m,p-Xylenes		Total Xylenes	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
11/15/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	74	68	280	46	280	<0.078	<0.25	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75
12/11/2023		Central Area - (TFR-21, TFR-26, TFR-27, TFR-28, TFR-34), (TF-18, RTF-18-E, RTF-18-W, RTF-18-NW, RTF-18-NNW), (TFR-20, TFR-23, TFR-24, TFR-30, TFR-33), (TFR-29), (TFR-17, TFR-18, TFR-19, TFR-22, TFR-25), (TFR-13, TFR-14, TFR-15), (TFR-7, TFR-9, TFR-12); Eastern Area - (RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10); Southern Area - (RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8015 & 8260B	70	71	290	47	290	0.081	0.26	<0.058	<0.25	<0.28	<1.0	<0.066	<0.25	<0.058	<0.25	<0.12	<0.5	<0.178	<0.75

Legend / Notes:

VES = Vapor extraction system

GRO = Gasoline range organics

MTBE = Methyl tertiary-butyl ether

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

ppmv = Parts per million by volume

µg/L = Micrograms per liter

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

-- = Not available or not analyzed

- Reported concentrations are shown in bold.

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

1 = Temporary thermal oxidizer VES started on 01/08/18.

2 = VES operations limited to daytime hours due to noise concerns from nearby residents.

3 = Noise abatement measures implemented in an effort to address concerns from nearby residents.

4 = Vapor extraction wells RW-3 through RW-6, RW-8, RW-11, RW-12, and RW-14 through RW-17 brought online 02/14/18 following the completion of installation and tie-in activities per SGI's June 30, 2017 *Remediation Well Installation Update Report*.

5 = No sample collected for analysis during February 2018 due to site condition and system operation status.

6 = Measured individual well concentrations and opened and/or closed select vapor extraction wells (see Table 9A through 9D for details).

7 = Vapor extraction wells RW-19, RW-20, RW-22, RW-24, RW-27 through RW-30, RW-32, RW-33, RW-35 through RW-38, and RW-40 through RW-50 brought online 6/27/18 following the completion of tie-in activities per SGI's June 30, 2017 report.

8 = Temporary thermal oxidizer VES shutdown on 01/08/2019.

9 = Permanent thermal oxidizer VES started on 03/13/2019.

TABLE 7A
Summary of LNAPL Removal in Well GMW-62 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of Third Quarter 2023:</i>							150.6	1,030.5
10/12/23	--	34.24	--	0.0	0.0	0.0	150.6	1,030.5
10/18/23	--	34.19	--	0.0	0.4	0.1	150.6	1,030.9
11/06/23	--	35.71	--	0.0	0.0	0.0	150.6	1,030.9
11/16/23	--	27.78	--	0.0	0.0	0.0	150.6	1,030.9
12/06/23	--	32.02	--	0.0	0.0	0.0	150.6	1,030.9
12/12/23	--	35.92	--	0.0	0.0	0.0	150.6	1,030.9
12/20/23	--	35.28	--	0.0	0.0	0.0	150.6	1,030.9
Cumulative for the Reporting Period^A:				0.0	0.4	0.1	0.1	0.4
Cumulative Beginning January 2014^{A, B}:				112.0	264.5	38.6	150.6	1,030.9

Legend / Notes:

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

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

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

TABLE 7B
Summary of LNAPL Removal in Well GMW-68 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A, B} (pounds)
<i>End of Third Quarter 2023:</i>							101.7	695.8
10/12/23	--	33.25	--	0.0	0.0	0.0	101.7	695.8
10/18/23	--	33.53	--	0.0	1.4	0.2	101.9	697.2
11/06/23	--	34.75	--	0.0	0.0	0.0	101.9	697.2
11/16/23	--	28.35	--	0.0	0.0	0.0	101.9	697.2
12/06/23	--	33.17	--	0.0	0.0	0.0	101.9	697.2
12/12/23	--	34.93	--	0.0	0.0	0.0	101.9	697.2
12/20/23	--	35.14	--	0.0	0.0	0.0	101.9	697.2
Cumulative for the Reporting Period^A:				0.0	1.4	0.2	0.2	1.4
Cumulative Beginning October 2016^{A, B}:				33.5	468.0	68.4	101.9	697.2

Legend / Notes:

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

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

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

TABLE 7C
Summary of LNAPL Removal in Well GMW-7 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via, Pumping, Bailing and Socks ^A (pounds)
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning December 2014 ^A:				8.0	135.6	19.8	27.8	190.4

Legend / Notes:

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

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

TABLE 7D
Summary of LNAPL Removal in Well TF-19 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Pumping, Bailing and Socks ^A (pounds)
No Product Removal Via Bailing, Skimming, or Absorbant Socks During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning June 2015 ^A:				6.75	199.1	29.08	35.8	245.2

Legend / Notes:

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

A = Cumulative LNAPL removed since June 2015 (no measureable product from January 2014 to May 2015). LNAPL removed prior to January 2014 can be found in previously submitted Remediation Progress Reports.

TABLE 7E
Summary of LNAPL Removal in Well TFR-9 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				150.0	0.0	0.0	150.0	1,026.5

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-9 initiated on October 8, 2018 but pump was manually shutdown on January 16, 2019 to allow for LNAPL recovery and resumed operating from February 7-27, 2019; Pump remained off-line through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7F
Summary of LNAPL Removal in Well GMW-18 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning March 2017 ^A:				101.1	75.8	11.1	112.2	767.6

Legend / Notes:

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

A = Cumulative LNAPL removed since March 2017. LNAPL removed prior to March 2017 can be found in previously submitted Remediation Progress Reports.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well GMW-18 initiated on October 8, 2018; pump manually shutdown on January 16, 2019 due to insufficient yield and remained off-line through June 2019).

TABLE 7G
Summary of LNAPL Removal in Well TFR-12 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				284.3	0.0	0.0	284.3	1,945.7

Legend / Notes:

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

A = Cumulative LNAPL removed since April 2018 following installation of well during December 2017.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-12 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller; Pump manually shutdown on March 11, 2019 due to insufficient yield and remained off-line through June 2019).

TABLE 7H
Summary of LNAPL Removal in Well TFR-14 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning April 2018 ^{A,B}:				2.1	0.0	0.0	2.1	14.2

Legend / Notes:

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

A = Cumulative LNAPL removed since April 2018 following installation of well during December 2017.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-12 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller; Pump manually shutdown on March 11, 2019 due to insufficient yield and remained off-line through June 2019).

TABLE 71
Summary of LNAPL Removal in Well TF-15 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period ^B:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2016 ^A:				187.1	52.5	7.7	194.8	1,332.9

Legend / Notes:

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

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

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

TABLE 7J
Summary of LNAPL Removal in Well TFR-15 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				23.0	0.0	0.0	23.0	157.4

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-15 initiated on October 18, 2018 but pump was manually shutdown on November 15, 2018 to allow for LNAPL recovery with operations resuming from November 28, 2018 to December 7, 2018, and again from December 19, 2018 to February 27, 2019; Pump remained off-line through June 2019 due to insufficient yield).

TABLE 7K
Summary of LNAPL Removal in Well TF-16 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								

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

Legend / Notes:

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

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

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

TABLE 7L
Summary of LNAPL Removal in Well GW-14R - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				360.0	0.0	0.0	360.0	2,463.6

Legend / Notes:

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

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

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

TABLE 7M
Summary of LNAPL Removal in Well TFR-18 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				18.1	0.0	0.0	18.1	124.2

Legend / Notes:

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

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

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

TABLE 7N
Summary of LNAPL Removal in Well TFR-22 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
<i>End of Third Quarter 2023:</i>							375.7	2,571.1
10/12/23	--	32.42	--	0.0	0.0	0.0	375.7	2,571.1
10/18/23	--	32.87	--	0.0	1.9	0.3	376.0	2,573.0
11/06/23	--	32.63	--	0.0	2.9	0.4	376.4	2,575.9
11/16/23	--	31.41	--	0.0	1.4	0.2	376.6	2,577.2
12/06/23	--	33.62	--	0.0	0.0	0.0	376.6	2,577.2
12/12/23	--	32.91	--	0.0	2.2	0.3	376.9	2,579.4
12/20/23	--	32.29	--	0.0	1.9	0.3	377.2	2,581.3
Cumulative for the Reporting Period:				0.0	10.2	1.5	1.5	10.2
Cumulative Beginning October 2018 ^{A,B}:				372.8	30.4	4.4	377.2	2,581.3

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-22 initiated on October 8, 2018 but pump was manually shutdown on November 28, 2018 to allow for LNAPL recovery; Pumping resumed on from December 14, 2018 to April 17, 2019, and May 30, 2019 through June 30, 2019).

TABLE 70
Summary of LNAPL Removal in Well TFR-24 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
<i>End of Third Quarter 2023:</i>							119.5	817.8
10/12/23	--	31.90	0.00	0.0	0.0	0.0	119.5	817.8
10/18/23	--	32.58	0.00	0.0	1.6	0.2	119.7	819.4
11/06/23	--	32.23	0.00	0.0	2.9	0.4	120.2	822.3
11/16/23	--	32.68	0.00	0.0	1.4	0.2	120.4	823.7
12/06/23	--	33.47	0.00	0.0	4.9	0.7	121.1	828.5
12/12/23	--	32.39	0.00	0.0	2.7	0.4	121.5	831.2
12/20/23	--	32.26	0.00	0.0	2.9	0.4	121.9	834.1
Cumulative for the Reporting Period:				0.0	16.3	2.4	2.4	16.3
Cumulative Beginning October 2018 ^{A,B}:				110.1	80.8	11.8	121.9	834.1

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 October 2018 following hookup of well to a newly installed controller.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of expanded product recovery system operations that began on October 8, 2018 (skimming from well TFR-24 initiated on October 8, 2018 but pump was manually shutdown on November 28, 2018 to allow for LNAPL recovery, and also operated from December 7-27, 2018, January 4-7, 2019, January 11, 2019 to February 7, 2019, and February 19, 2019 to March 11, 2019; Pump remained off-line through June 2019 due to insufficient yield; pump manually shutdown on February 14, 2020 due to insufficient yield).

TABLE 7P
Summary of LNAPL Removal in Well TFR-29 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing ^A (gallons)	LNAPL Removed with Socks ^A (pounds)	LNAPL Removed with Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^{A,B} (pounds)
<i>End of Third Quarter 2023:</i>							988.8	6,766.4
10/12/23	--	32.50	0.00	0.0	0.0	0.0	988.8	6,766.4
10/18/23	--	32.18	0.00	0.0	1.4	0.2	989.0	6,767.8
11/06/23	--	29.61	0.00	0.0	3.1	0.5	989.4	6,770.9
11/16/23	--	31.98	0.00	0.0	0.0	0.0	989.4	6,770.9
12/06/23	--	33.14	0.00	0.0	1.6	0.2	989.7	6,772.5
12/12/23	--	33.34	0.00	0.0	1.2	0.2	989.8	6,773.7
12/20/23	--	27.62	0.00	0.0	0.0	0.0	989.8	6,773.7
Cumulative for the Reporting Period^A:				0.0	7.3	1.1	1.1	7.3
Cumulative Beginning April 2018^{A,B,C,D}:				981.9	54.4	7.9	989.8	6,773.7

Legend / Notes:

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

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

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

C = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well TFR-29 initiated on April 23, 2018, and temporarily discontinued from September 5, 2018 to October 8, 2018 pending hookup to a new controller).

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

TABLE 7Q
Summary of LNAPL Removal in Well TFR-33 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								
Cumulative for the Reporting Period:				0.0	0.0	0.0	0.0	0.0
Cumulative Beginning October 2018 ^{A,B}:				123.0	0.0	0.0	123.0	841.7

Legend / Notes:

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

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

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

TABLE 7R
Summary of LNAPL Removal in Well RTF-18-E - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
<i>End of Third Quarter 2023:</i>							686.1	4,695.1
10/12/23	--	32.10	0.00	0.0	0.0	0.0	686.1	4,695.1
10/18/23	--	32.68	0.00	0.0	0.0	0.0	686.1	4,695.1
11/06/23	--	33.08	0.00	0.0	2.9	0.4	686.5	4,698.0
11/16/23	--	33.50	0.00	0.0	0.0	0.0	686.5	4,698.0
12/06/23	--	33.64	0.00	0.0	2.1	0.3	686.8	4,700.1
12/12/23	--	32.86	0.00	0.0	2.1	0.3	687.1	4,702.2
12/20/23	--	31.76	0.00	0.0	3.4	0.5	687.6	4,705.6

Cumulative for the Reporting Period:	0.0	10.5	1.5	1.5	10.5
Cumulative Beginning May 2016 - July 2016^A:	47.5	0.0	0.0	47.5	325.1
Cumulative Beginning August 2016 - September 2019^B:	593.4	0.0	0.0	593.4	4,061.5
Cumulative Beginning May 2016^A:	679.1	58.6	8.6	687.6	4,705.6

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 May 2016 following installation of well during December 2015.

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-E initiated on August 11, 2016).

* = Well RTF-18-E was off-line from February 15, 2017 to October 4, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until March 15, 2018 when the pump was again shutdown and remained off-line until December 27, 2018 (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well); pump shutdown on February 14, 2020 due to insufficient yield.

TABLE 7S
Summary of LNAPL Removal in Well RTF-18-NW - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								

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

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-NW initiated on August 11, 2016).

* = Well RTF-18-NW was off-line from February 15, 2017 to August 10, 2017 to allow for LNAPL recovery which continued to be adequate for effective removal via skimming until March 11, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well.

TABLE 7T
Summary of LNAPL Removal in Well RTF-18-N - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								

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

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-N initiated on August 11, 2016).

* = Well RTF-18-N was off-line from September 14, 2016 to October 10, 2017, and November 7, 2017 to January 7, 2018, to allow for LNAPL recovery (pumping resumed until February 27, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7U
Summary of LNAPL Removal in Well TF-18 - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								

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

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming initially isolated to well TF-18 for testing purposes with other wells coming online August 11, 2016).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well TF-18 resumed operating after tank was emptied until February 8, 2017 when skimmer was manually shutdown to allow for LNAPL recovery (pumping resumed from August 10, 2017 to January 25, 2019 with no subsequent operations through June 2019 based on regular gauging data showing little to no measureable product in the well).

TABLE 7V
Summary of LNAPL Removal in Well RTF-18-NNW - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								

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

Legend / Notes:

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

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

B = Cumulative LNAPL removed from a pneumatically controlled skimmer installed as part of a product recovery system that started operating on August 8, 2016 (skimming from well RTF-18-NNW initiated on September 14, 2016 (off-line since January 9, 2017).

* = Product recovery system off-line from January 9-27, 2017 due to full storage tank, and well RTF-18-NNW has since remained off-line to allow for LNAPL recovery which decreased from January 2017 to March 2017 with no measurable product from early March 2017 through mid-September 2017, and less than 0.3 foot at the end of 2017 (note that product thicknesses temporarily exhibited a further increasing overall trend during 2018 that has since reversed with little to no measurable product since late February 2019).

TABLE 7W
Summary of LNAPL Removal in Well RTF-18-W - Fourth Quarter 2023
 DFSP, Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Depth to LNAPL (feet btc)	Depth to Water (feet btc)	Measured LNAPL Thickness (feet)	LNAPL Removed Via Vacuum Truck, Pumping and/or Bailing (gallons)	LNAPL Removed with Socks (pounds)	LNAPL Removed with Socks (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (gallons)	Cumulative LNAPL Removed Via Vacuum Truck, Pumping, Bailing and Socks ^A (pounds)
No Pumping/Skimming from Product Recovery System Well During 4th Quarter 2023								

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

Legend / Notes:

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

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

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

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

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

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

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

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

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
01/12/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	2,000	510	14	<0.30	3.6	25	7.0	<7.0	<0.40	<0.50	<0.40	<0.30
02/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	180	13	<0.30	0.53	2.7	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/14/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	270	1,100	0.91	<0.30	<0.20	1.6	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
04/04/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	76 J	100	0.99	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/04/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	170	470	<0.20	<0.30	<0.20	1.3	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	280	75 J	4.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.43 J	<0.50	<0.40	<0.30
07/11/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	330	<40	4.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.79 J	<0.50	<0.40	<0.30
08/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/01/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.7	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/12/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	230	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/01/16	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	120	52 J	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/05/16		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	450	51 J	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
01/09/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	150	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.58 J	<0.50	<0.40	<0.30
02/06/17	6	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	110	<40	3.5	<0.30	0.41 J	0.60 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
03/15/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	68 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.60 J	<0.50	<0.40	<0.30
04/05/17	5	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	74 J	<40	8.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
05/03/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	72 J	<40	4.3	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
06/05/17		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	62 J	<40	5.0	<0.30	<0.20	0.50 J	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
07/19/17	5	GW-2, GW-15, GW-16	8015M & 8260B	75 J	<40	3.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
08/02/17		GW-2, GW-15, GW-16	8015M & 8260B	80 J	<40	4.0	<0.30	<0.20	<0.40	<0.30	<7.0	0.88 J	<0.50	<0.40	<0.30
09/13/17		GW-2, GW-15, GW-16	8015M & 8260B	84 J	<40	<0.20	<0.30	<0.20	<0.40	<0.30	<7.0	0.69 J	<0.50	<0.40	<0.30
10/16/17		GW-2, GW-15, GW-16	8015M & 8260B	64 J	<40	3.7	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
11/13/17		GW-2, GW-15, GW-16	8015M & 8260B	78 J	<40	4.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.54 J	<0.50	<0.40	<0.30
12/11/17	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	2.8	<0.30	<0.20	<0.40	<0.30	8.8 J	<0.40	<0.50	<0.40	<0.30
01/11/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	73 J	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
02/26/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	5.3	<0.30	<0.20	<0.40	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
03/20/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	4.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.47 J	<0.50	<0.40	<0.30
04/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	65 J	<40	2.9	<0.30	<0.20	<0.40	<0.30	<7.0	0.50 J	<0.50	<0.40	<0.30
05/02/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	130	<40	2.5	<0.30	<0.20	<0.40	<0.30	<7.0	0.74 J	<0.50	<0.40	<0.30
06/04/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	0.74	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
07/02/18	7,8	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.1	<0.30	<0.20	<0.40	<0.30	<7.0	0.41 J	<0.50	<0.40	<0.30
08/06/18		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	3.1	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
09/13/18		GW-2, GW-15, GW-16	8015M & 8260B	<60	<40	0.38 J	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
10/29/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.4	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
11/14/18		GW-15, GW-16	8015M & 8260B	<60	<40	2.0	<0.30	<0.20	<0.40	<0.30	<7.0	<0.40	<0.50	<0.40	<0.30
12/17/18	7	GW-2, GW-13, GW-15, GW-16	8015M & 624	170	<100	<0.5	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0
01/08/19		GW-2, GW-13, GW-15, GW-16	8015M & 8260B	--	<40	1.4	<0.30	<0.20	<0.40	<0.30	<7.0	0.92 J	<0.50	<0.40	<0.30
02/06/19	9	GW-2, GW-13, GW-15, GW-16	8015M & 8260B	<60	<40	1.4	<0.30	<0.20	0.52 J	<0.30	<7.0	0.49 J	<0.50	<0.40	<0.30
01/30/20	10,11	GW-13, GW-15, GW-16	8015B	790	--	--	--	--	--	--	--	--	--	--	--
03/11/20	10,11	GW-15, GW-16	8015B & EPA 624	370	--	<5.0	<5.0	<5.0	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5
04/22/20		GW-16	8015B	<94	<50	--	--	--	--	--	--	--	--	--	--
05/27/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	610	490	46	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
06/24/20		GW-16, GMW-31, GW-14R	8015B & EPA 624	850	640	79	<5.0	<5.0	<10	<5.0	12	6.4	<5.0	<1.0	<1.0
07/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	150	6.2	<5.0	<5.0	<10	<5.0	18	<5.0	<5.0	<1.0	<1.0
11/24/20	12	GW-16, GMW-31, GW-14R	8015B & EPA 624	430	190	5.3	<5.0	<5.0	<10	<5.0	12	<5.0	<5.0	<1.0	<1.0
01/28/21	13	GW-16, GMW-31, GW-14R	8015B & EPA 624	860	410	34	<5.0	<5.0	<10	<5.0	25	<5.0	<5.0	<1.0	<1.0
02/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,500	740	48	<5.0	<5.0	<10	<5.0	30	5.2	<5.0	<1.0	<1.0
05/05/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	470	190	8.6	<5.0	<5.0	<10	<5.0	14	<5.0	<5.0	<1.0	<1.0
06/11/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	540	260	7.0	<5.0	<5.0	<10	<5.0	17	<5.0	<5.0	<1.0	<1.0
07/09/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	480	250	6.2	<5.0	<5.0	<10	<5.0	21	<5.0	<5.0	<1.0	<1.0
08/18/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	500	110	<5.0	<5.0	<5.0	<10	<5.0	26	<5.0	<5.0	<1.0	<1.0
09/27/21		GMW-31, GW-14R	8015B & EPA 624	800	220	<5.0	<5.0	<5.0	<10	<5.0	33	<5.0	<5.0	<1.0	<1.0
10/20/21		GMW-31, GW-14R	8015B & EPA 624	760	140	<5.0	<5.0	<5.0	<10	<5.0	36	<5.0	<5.0	<1.0	<1.0
11/10/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	550	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
12/07/21		GW-16, GMW-31, GW-14R	8015B & EPA 624	620	120	<5.0	<5.0	<5.0	<10	<5.0	39	<5.0	<5.0	<1.0	<1.0
01/19/22		GW-16, GW-14R	8015B & EPA 624	830	210	<5.0	<5.0	<5.0	<10	<5.0	36	<5.0	<5.0	<1.0	<1.0
02/16/22		GW-16, GW-14R	8015B & EPA 624	420	55	<5.0	<5.0	<5.0	<10	<5.0	46	<5.0	<5.0	<1.0	<1.0
03/09/22		GW-16, GW-14R	8015B & EPA 624	460	67	<5.0	<5.0	<5.0	<10	<5.0	42	<5.0	<5.0	<1.0	<1.0
04/28/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	490	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
05/11/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	470	<50	<5.0	<5.0	<5.0	<10	<5.0	58	<5.0	<5.0	<1.0	<1.0

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

Sample Date	Notes	GWETS Wells On Line	Laboratory Analysis Methods	TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	TBA	MTBE	DIPE	ETBE	TAME
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
06/16/22		GW-16, GMW-31	8015B & EPA 624	47	<50	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
09/28/22	14,15	GW-16, GMW-31, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	49	<5.0	<5.0	<1.0	<1.0
10/26/22		GW-16, GW-14R	8015B & EPA 624	430	<50	<5.0	<0.5	<5.0	<10	<5.0	29	<5.0	<5.0	<1.0	<1.0
11/29/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	360	<50	<5.0	<0.5	<5.0	<10	<5.0	10	<5.0	<5.0	<1.0	<1.0
12/21/22		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,200	<50	<5.0	<0.5	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
01/23/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	610	<50	<5.0	<0.5	<5.0	<10	<5.0	16	<5.0	<5.0	<1.0	<1.0
02/15/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	730	56	<5.0	<0.5	<5.0	<10	<5.0	22	<5.0	<5.0	<1.0	<1.0
03/22/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	380	<50	<5.0	<0.5	<5.0	<10	<5.0	26	<5.0	<5.0	<1.0	<1.0
04/19/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	650	61	<5.0	<0.5	<5.0	<10	<5.0	29	<5.0	<5.0	<1.0	<1.0
05/24/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	350	<50	<5.0	<0.5	<5.0	<10	<5.0	34	<5.0	<5.0	<1.0	<1.0
06/08/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	35	<5.0	<5.0	<1.0	<1.0
07/21/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	68	<5.0	<0.5	<5.0	<10	<5.0	35	<5.0	<5.0	<1.0	<1.0
08/16/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	1,000	<50	<5.0	<0.5	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
09/27/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	270	<50	<5.0	<0.5	<5.0	<10	<5.0	12	<5.0	<5.0	<1.0	<1.0
10/25/23		GW-16, GMW-31, GW-14R	8015B & EPA 624	590	<50	<5.0	<0.5	<5.0	<10	<5.0	16	<5.0	<5.0	<1.0	<1.0
11/16/23	16	GW-16, GW-14R	8015B & EPA 624	340	<50	<5.0	<0.5	<5.0	<10	<5.0	<10	<5.0	<5.0	<1.0	<1.0
12/13/23	16	GW-16, GW-14R	8015B & EPA 624	550	<50	<5.0	<0.5	<5.0	<10	<5.0	11	<5.0	<5.0	<1.0	<1.0

Legend / Notes:

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

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

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

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

TBA = tertiary-Butyl alcohol
 DIPE = Diisopropyl ether
 -- = Not available or not analyzed

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

- Reported concentrations are shown in bold.

- 1 = GWETS manually shut down.
- 2 = GWETS restarted on 7/2/14, 1/13/15 and 2/25/15.
- 3 = GWETS manually shut down on 11/11/14.
- 4 = GWETS temporarily restarted but left off-line upon departure.
- 5 = GWETS manually shut down on 4/13/15, 5/6/15, 4/4/16, 9/26/16, 11/7/16, 3/8/17, 4/17/17 and 7/3/17, and restarted on 4/27/15, 5/8/15, 4/28/16, 10/12/16, 11/23/16, 3/15/17, 4/25/17 and 7/17/17, respectively.
- 6 = GWETS restarted following an automatic shut down on 2/4/17.
- 7 = GWETS manually shut down on 11/20/17 and largely remained off-line through late May 2018, as well as during July and December 2018, with the exception of a few operational days and/or weeks to collect system removal performance samples following the completion of media change out work, and/or to complete routine groundwater monitoring and sampling work along with system maintenance activities.
- 8 = GWETS manually shut down from 7/9/18 to 7/12/18 for installation of replacement discharge totalizer, 7/13/18 to 7/16/18 for repairs, and 7/18/18 to 7/20/18 for carbon changeout fieldwork.
- 9 = GWETS off-line since 2/27/19 pending the completion of an alternative waste discharge evaluation study.
- 10 = GWETS restarted on October 10, 2019 per the new sewer discharge permit. Sampling will begin January 1, 2020 per the permit requirements.
- 11 = TPHd and benzene, toluene, and ethylbenzene analyzed for mass extraction purposes only; new Industrial Waste Discharge (IWD) permit has different analytical requirements than previous stormwater discharge permit.
- 12 = GWETS manually shut down on 6/30/20 and largely remained off-line through early January 2021 with the exception of a few operational days and/or weeks to collect system removal performance samples.
- 13 = GWETS restarted on 1/5/21.
- 14 = GWETS manually shut down 6/24/22 due to naturally occurring sludge clogging pumps in extraction wells.
- 15 = GWETS restarted on 9/9/22 following chemical treatment and installation of new pumps in extraction wells.
- 16 = GMW-31 offline pending maintenance.

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	69	20	140	4,176	--	--
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	74	21	4,000	15,000	--	--
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	0.8	4.5	3.6	0.1	--	--
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	2.1	0	2.5	146.0	--	--
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	3.3	20.0	2.9	2	--	--
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	0	0	0	0.2	--	--
03/30/15	4,5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	24	2	62	382.0	--	--
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	400	34	270	370	--	--
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	825	160	835	800	--	--
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	800	315	600	580	--	--
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	680	297	545	585	--	--
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,900	125	533	1,233	--	--
04/27/15	4,6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	1,455	138	400	810	--	--
06/08/15	6,7	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	--
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	1,947	28	676	732	--	--
08/20/15	6,9	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,792	--	1,283	1,526	--	--
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,914	--	839	1,811	--	--
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	1,333	--	756	1,142	--	--
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	854	--	462	807	--	--
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	605	--	372	500	--	--
12/07/15	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	880	--	590	760	--	--
01/13/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	640	--	415	390	--	--
02/08/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	520	--	300	240	--	--
03/02/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	360	180	--	--
04/06/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	420	--	260	220	--	--
05/04/16	4,6	VEW-32, VEW-33, HW-1, HW-3, HW-5	400	--	240	180	--	--
06/17/16	6	HW-1, HW-3, HW-5	740	--	470	330	--	--
07/06/16	6,10	HW-1, HW-3, HW-5	480	--	340	220	--	--
08/05/16	6	HW-1, HW-3, HW-5	240	4	190	230.0	--	--

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
09/01/16	6,10	HW-1, HW-3, HW-5	280	--	220	260	--	--
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	200	140	240	280	--	--
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	160	120	180	260	--	--
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	120	100	200	240	--	--
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	80	17	180	200	--	--
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	100	13	160	180	--	--
03/20/17	12	HW-1, HW-3, HW-5, HW-7	110	12	120	160	--	--
04/17/17		HW-1, HW-3, HW-5, HW-7	120	10	160	220	--	--
05/03/17		HW-1, HW-3, HW-5, HW-7	100	19	140	260	--	--
06/05/17		HW-1, HW-3, HW-5	107	15	82	211	--	--
07/19/17	13	HW-5, HW-7 and VEW-39	--	49	79	286	--	--
08/09/17	14,15	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	192	--	94	236	--	--
09/07/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	180	--	60	220	--	--
10/12/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	220	--	80	260	--	--
11/02/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	346	--	105	334	--	--
12/11/17	14,15	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	280	--	90	220	--	--
01/11/18	15,16	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, RW-9, RW-13, RW-18 and RW-26	160	--	120	340	--	--
02/12/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1 through RW-18, and RW-26	60	--	75	290	--	--
03/14/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--
03/28/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	200	--	160	240	--	--
04/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	180	--	140	220	--	--
05/02/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	140	--	120	200	--	--
06/06/18	15	HW-1, HW-5, HW-7, VEW-39, RW-1, -4, -9, -10, -11, -13, -14 and -18	100	--	80	160	--	--
06/27/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/16/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
07/30/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
08/29/18	15	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, -20, -22, -24, -26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	--	--	--
12/03/18	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
01/25/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,127	--	375	474	--	--
02/12/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,845	--	696	718	--	--
03/06/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	1,309	--	1,115	939	--	--
03/12/19	15,17	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
03/20/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	591	--	234	730	--	--
03/26/19	15	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--
04/09/19	15,18	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW- 22, -24, -26, -27 -28, -29, -35, -40, -44, 30,-32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	>15,000	--	1,541	1,725	--	--
11/25/19	19,20	HW-1, HW-5, HW-7, HW-8, HW-9	730	--	501	730	--	1,820
12/16/19		HW-1, HW-5, HW-7, HW-8, HW-9	4,900	--	1,336	1,215	431	1,375
01/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	184	--	6	10	976	22
02/05/20		HW-1, HW-5, HW-7, HW-8, HW-9	371	--	5	124	6	843
02/14/20		HW-1, HW-5, HW-7, HW-8, HW-9	397	--	24	366	4	805
02/18/20		HW-1, HW-5, HW-7, HW-8, HW-9	139	--	4	149	3	530
02/27/20		HW-1, HW-5, HW-7, HW-8, HW-9	155	--	29	21	2	1,192
03/04/20		HW-1, HW-5, HW-7, HW-8, HW-9	2,188	--	611	461	61	774
03/16/20		HW-1, HW-5, HW-7, HW-8, HW-9	1,520	--	241	186	21	4,344
03/24/20		HW-1, HW-5, HW-7, HW-8, HW-9	339	--	57	156	6	2,681
04/01/20		HW-1, HW-5, HW-7, HW-8, HW-9	132	--	5	87	4	1,982
04/10/20		HW-1, HW-5, HW-7, HW-8, HW-9	172	--	5	145	0	378
04/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	143	--	4	286	3	768
04/24/20		HW-1, HW-5, HW-7, HW-8, HW-9	83	--	16	337	4	780
05/01/20		HW-1, HW-5, HW-7, HW-8, HW-9	108	--	1	15000+	1	15000+
05/06/20		HW-1, HW-5, HW-7, HW-8, HW-9	99	--	18	15000+	2	15000+
05/15/20		HW-1, HW-5, HW-7, HW-8, HW-9	199	--	8	697	7	1,058
05/28/20		HW-1, HW-5, HW-7, HW-8, HW-9	105	--	5	636	5	1,841
06/03/20		HW-1, HW-5, HW-7, HW-8, HW-9	88	--	3	475	4	968
06/09/20		HW-1, HW-5, HW-7, HW-8, HW-9	73	--	3	399	1	853
06/22/20		HW-1, HW-5, HW-7, HW-8, HW-9	140	--	71	493	3	957
06/23/20	21	HW-1, HW-7, HW-9	--	--	--	--	--	--

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
07/01/20		HW-1, HW-7, HW-9	165	--	--	615	--	1,867
07/07/20		HW-1, HW-7, HW-9	123	--	--	457	--	1,882
07/17/20		HW-1, HW-7, HW-9	127	--	--	387	--	3,470
07/20/20		HW-1, HW-7, HW-9	127	--	--	339	--	1,893
07/31/20		HW-1, HW-7, HW-9	106	--	--	330	--	211
08/07/20		HW-1, HW-7, HW-9	320	--	--	503	--	929
08/10/20		HW-1, HW-7, HW-9	98	--	--	463	--	2,908
08/17/20		HW-1, HW-7, HW-9	128	--	--	660	--	3,633
08/24/20		HW-1, HW-7, HW-9	141	--	12	615	15	7,848
08/26/20		HW-1, HW-7, HW-9	108	--	--	546	--	2,573
08/31/20		HW-1, HW-7, HW-9	97	--	--	490	--	1,873
09/11/20		HW-1, HW-7, HW-9	86	--	--	439	--	1,502
09/14/20		HW-1, HW-7, HW-9	362	--	--	398	--	3,815
09/24/20		HW-1, HW-7, HW-9	42	--	--	311	--	34
09/28/20		HW-1, HW-7, HW-9	115	--	--	471	--	1,783
10/05/20		HW-1, HW-7, HW-9	122	--	--	400	--	3,011
10/12/20		HW-1, HW-7, HW-9	77	--	--	219	--	1,542
10/19/20		HW-1, HW-7, HW-9	101	--	--	1,791	--	1,771
10/28/20		HW-1, HW-7, HW-9	102	--	--	171	--	69
11/5/20		HW-1, HW-7, HW-9	107	--	49	165	124	1,421
11/16/20		HW-1, HW-5, HW-7, HW-9	64	--	25	134	--	964
11/24/20		HW-1, HW-5, HW-7, HW-9	46	--	104	--	--	993
1/15/21		HW-1, HW-9, HW-5, HW-7	48	--	72	56	--	976
2/4/21		HW-1, HW-9, HW-5, HW-7	139	--	77	59	--	421
2/8/21		HW-1, HW-9, HW-5, HW-7	48	--	--	--	--	--
2/24/21		HW-1, HW-9, HW-5, HW-7	43	--	6	35	--	1,287
3/4/21		HW-1, HW-8, HW-9, HW-5, HW-7	48	--	33	295	46	535
3/8/21	22	HW-1, HW-8, HW-9, HW-5, HW-7	48	--	19	231	3	458
3/15/21		HW-1, HW-9, HW-5, HW-7	37	--	48	245	--	1,192
3/24/21		HW-1, HW-9, HW-5, HW-7	43	--	63	73	--	1,274
3/30/21		HW-1, HW-9, HW-5, HW-7	--	--	73	68	--	1,150
4/6/21		HW-1, HW-9, HW-5, HW-7	43	--	49	346	--	592
4/15/21		HW-1, HW-9, HW-5, HW-7	33	--	33	193	--	605
4/19/21		HW-1, HW-9, HW-5, HW-7	71	--	42	--	--	369
4/26/21		HW-1, HW-9, HW-5, HW-7	58	--	61	141	--	456

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
5/10/21		HW-1, HW-9, HW-5, HW-7	144	--	100	364	--	833
5/19/21		HW-1, HW-9, HW-5, HW-7	61	--	64	104	--	583
5/28/21		HW-1, HW-9, HW-5, HW-7	46	--	15	121	--	675
6/4/21		HW-1, HW-9, HW-5, HW-7	25	--	7	121	--	879
6/16/21		HW-1, HW-9, HW-5, HW-7	70	--	16	101	--	493
6/21/21		HW-1, HW-9, HW-5, HW-7	37	--	14	136	--	727
6/28/21		HW-1, HW-9, HW-5, HW-7	21	--	5	133	--	840
7/7/21		HW-1, HW-9, HW-5, HW-7	79	--	37	153	--	613
7/16/21		HW-1, HW-9, HW-5, HW-7	31	--	21	102	--	448
7/23/21		HW-1, HW-9, HW-5, HW-7	43	--	18	118	--	425
7/28/21		HW-1, HW-9, HW-5, HW-7	49	--	45	137	--	697
8/3/21		HW-1, HW-9, HW-5, HW-7	27	--	24	125	--	515
8/9/21		HW-1, HW-9, HW-5, HW-7	41	--	46	68	--	715
8/18/21		HW-1, HW-9, HW-5, HW-7	22	--	12	102	--	698
8/25/21		HW-1, HW-9, HW-5, HW-7	18	--	20	68	--	479
8/31/21		HW-1, HW-9, HW-5, HW-7	13	--	18	46	--	455
9/14/21		HW-1, HW-9, HW-5, HW-7	59	--	54	201	--	710
9/20/21		HW-1, HW-9, HW-5, HW-7	63	--	45	153	--	634
9/27/21		HW-1, HW-9, HW-5, HW-7	22	--	14	92	--	788
10/5/21		HW-1, HW-9, HW-5, HW-7	54	--	29	137	--	663
10/13/21		HW-1, HW-9, HW-5, HW-7	17	--	1	90	--	373
10/18/21		HW-1, HW-9, HW-5, HW-7	38	--	7	121	--	621
10/27/21		HW-1, HW-9, HW-5, HW-7	23	--	26	184	--	463
11/1/21		HW-1, HW-9, HW-5, HW-7	65	--	78	145	--	917
11/9/21		HW-1, HW-9, HW-5, HW-7	26	--	14	130	--	546
11/17/21		HW-1, HW-9, HW-5, HW-7	16	--	3	165	--	427
11/30/21		HW-1, HW-9, HW-5, HW-7	14	--	40	187	--	376
12/6/21		HW-1, HW-9, HW-5, HW-7	18	--	5	151	--	588
12/13/21		HW-1, HW-9, HW-5, HW-7	12	--	3	160	--	831
12/28/21		HW-1, HW-9, HW-5, HW-7	10	--	2	786	--	812
1/6/22		HW-1, HW-9, HW-5, HW-7	29	--	43	17	--	525
1/11/22		HW-1, HW-9, HW-5, HW-7	79	--	75	853	--	425
1/18/22		HW-1, HW-9, HW-5, HW-7	38	--	22	1,373	--	796
1/26/22		HW-1, HW-9, HW-5, HW-7	11	--	12	0	--	535
2/1/22		HW-1, HW-9, HW-5, HW-7	17	--	108	1,414	--	1,130

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
2/9/22		HW-1, HW-9, HW-5, HW-7	22	--	6	930	--	514
2/15/22		HW-1, HW-9, HW-5, HW-7	55	--	63	802	--	1,082
2/22/22		HW-1, HW-9, HW-5, HW-7	25	--	23	159	--	902
3/1/22		HW-1, HW-9, HW-5, HW-7	22	--	47	168	--	1,050
3/9/22		HW-1, HW-9, HW-5, HW-7	34	--	58	652	--	715
3/15/22		HW-1, HW-9, HW-5, HW-7	44	--	4	84	--	843
3/21/22		HW-1, HW-9, HW-5, HW-7	41	--	4	420	--	381
3/31/22		HW-1, HW-9, HW-5, HW-7	47	--	25	325	--	814
4/6/22		HW-1, HW-9, HW-5, HW-7	32	--	4	550	--	626
4/13/22		HW-1, HW-9, HW-5, HW-7	37	--	13	486	--	568
4/26/22		HW-1, HW-9, HW-5, HW-7	30	--	66	595	--	653
5/3/22		HW-1, HW-9, HW-5, HW-7	44	--	57	628	--	483
5/10/22		HW-1, HW-9, HW-5, HW-7	41	--	55	373	--	754
5/17/22		HW-1, HW-9, HW-5, HW-7	32	--	68	973	--	1,281
5/27/22		HW-1, HW-9, HW-5, HW-7	19	--	4	618	--	693
6/3/22		HW-1, HW-9, HW-5, HW-7	22	--	37	1,392	--	860
6/9/22		HW-1, HW-9, HW-5, HW-7	28	--	43	1,275	--	885
6/16/22		HW-1, HW-9, HW-5, HW-7	14	--	55	1,809	--	464
7/1/22		HW-1, HW-9, HW-5, HW-7	20	--	4	1,576	--	672
7/12/22		HW-1, HW-9, HW-5, HW-7	30	--	25	1,303	--	463
7/29/22		HW-1, HW-9, HW-5, HW-7	47	--	62	553	--	386
8/1/22		HW-1, HW-9, HW-5, HW-7	13	--	10	19	--	468
8/8/22		HW-1, HW-9, HW-5, HW-7	12	--	6	53	--	420
8/18/22		HW-1, HW-9, HW-5, HW-7	14	--	11	73	--	526
8/30/22		HW-1, HW-9, HW-5, HW-7	18	--	11	65	--	412
9/7/22		HW-1, HW-9, HW-5, HW-7	9	--	4	95	--	417
9/15/22		HW-1, HW-9, HW-5, HW-7	9	--	28	273	--	>15000
9/16/22		HW-1, HW-9, HW-5, HW-7	--	--	--	--	--	12,400
9/20/22		HW-1, HW-9, HW-5, HW-7	12	--	13	161	--	1,269
9/29/22		HW-1, HW-9, HW-5, HW-7	9	--	19	163	--	385
10/6/22		HW-1, HW-9, HW-5, HW-7	8	--	26	186	--	342
10/11/22		HW-1, HW-9, HW-5, HW-7	19	--	22	--	--	324
11/10/22		HW-1, HW-9, HW-5, HW-7	26	--	2	275	--	281
11/18/22		HW-1, HW-9, HW-5, HW-7	30	--	24	314	--	390
12/1/22		HW-1, HW-9, HW-5, HW-7	27	--	22	337	--	415

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
12/6/22	23	HW-1, HW-9, HW-5	17	--	23	--	--	303
1/6/23		HW-1, HW-9, HW-5	10	--	2	--	--	1,150
1/20/23	24	HW-1, HW-9, HW-5, HW-7	10	--	16	15,000	--	15,000
1/31/23		HW-1, HW-9, HW-5, HW-7	0	--	0	386	--	284
2/10/23		HW-1, HW-9, HW-5, HW-7	22	--	15	41	--	867
2/21/23		HW-1, HW-9, HW-5, HW-7	62	--	17	14	--	2,080
3/2/23		HW-1, HW-9, HW-5, HW-7	97	--	99	131	--	1,853
3/9/23		HW-1, HW-9, HW-5, HW-7	43	--	41	160	--	1,231
3/13/23		HW-1, HW-9, HW-5, HW-7	20	--	4	213	--	1,115
3/23/23		HW-1, HW-9, HW-5, HW-7	22	--	31	14	--	382
3/30/23		HW-1, HW-9, HW-5, HW-7	28	--	24	14	--	201
4/6/23		HW-1, HW-9, HW-5, HW-7	24	--	26	10	--	172
4/14/23		HW-1, HW-9, HW-5, HW-7	21	--	28	17	--	205
4/27/23		HW-1, HW-9, HW-5, HW-7	49	--	12	13	--	13
5/4/23		HW-1, HW-9, HW-5, HW-7	36	--	16	10	--	98
5/11/23		HW-1, HW-9, HW-5, HW-7	21	--	7	4	--	8
6/1/23		HW-1, HW-9, HW-5, HW-7	18	--	4	3	--	8
6/23/23	25	HW-1, HW-9, HW-5, HW-7	14	--	23	11	--	795
7/13/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	6	--	22	11	--	398
7/20/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	11	--	2	1	--	35
8/3/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	11	--	18	13	--	122
8/15/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	24	--	12	9	--	24
8/22/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	8	--	2	21	--	3
8/29/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	10	--	3	34	--	3
9/12/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	30	--	9	9	--	14
9/22/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	11	--	2	15	--	4
9/26/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	7	--	1	28	--	2
10/4/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	10	--	3	47	--	8
10/19/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	5	--	1	30	--	2
10/25/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	13	--	4	13	--	4
11/9/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	14	--	4	9	--	4
11/20/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	9	--	5	59	--	6
12/11/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	5	--	1	56	--	56
12/18/23		HW-1, HW-9, HW-5, HW-7, Trunkline #2	2	--	4	28	--	52
12/20/23	26	HW-1, HW-9, HW-5, HW-7, Trunkline #1, Trunkline #2, Trunkline #5, Trunkline #6	--	--	--	--	--	--

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Depth for Horizontal Wells or Interval in Feet Below Grade for Vertical Wells					
			HW-1	HW-3 **	HW-5	HW-7 **	HW-8	HW-9
			25	25	25	25	60	220
12/28/23		HW-1, HW-9, HW-5, HW-7, Trunkline #1, Trunkline #2, Trunkline #5, Trunkline #6	4	--	1	13	--	141

Legend / Notes:

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

Concentrations measured using calibrated field OVA.

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34
07/09/14	1	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	154	20	--	--	--	10	6.4	--	--	--	4.2	5.5	--	--	--	--	--	--	
07/18/14		VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	134	18	--	--	--	5.6	4.1	--	--	--	3.3	2.1	--	--	--	--	--	--	
08/27/14	2	VEW-32, VEW-33, VEW-34, VEW-35, VEW-36, VEW-37, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	6.3	0	--	--	--	0.4	0	--	--	--	0.4	0.2	--	--	--	--	--	--	
08/27/14	3	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	174	--	--	--	--	0.2	--	--	--	--	0	--	--	--	--	--	--	--	
10/23/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	191	151	--	--	--	22	9.1	--	--	--	8.0	28	--	--	--	--	--	--	
12/17/14	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	62	11	--	--	--	37	24	--	--	--	2.0	15	--	--	--	--	--	--	
03/30/15	4.5	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	2.5	1.0	--	--	--	0.1	20	--	--	--	0.3	4.8	--	--	--	--	--	--	
04/02/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	25	0	--	--	--	4.1	0	--	--	--	0	0	--	--	--	--	--	--	
04/06/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	171	0	--	--	--	5.7	0	--	--	--	3.0	0	--	--	--	--	--	--	
04/08/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	195	0	--	--	--	35	0	--	--	--	25	0	--	--	--	--	--	--	
04/15/15	4	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	273	0	--	--	--	223	0	--	--	--	87	0	--	--	--	--	--	--	
04/24/15	6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/27/15	4.6	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	210	2.4	--	--	--	324	5.7	--	--	--	115	4.8	--	--	--	--	--	--	
06/08/15	6.7	VEW-32, VEW-33, VEW-34	--	--	--	--	--	180	--	--	--	--	130	--	--	--	--	40	--	--	--	--	--	--	--	
06/12/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	194	--	--	--	--	126	--	--	--	--	80	--	--	--	--	--	--	--	
06/15/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	158	--	--	--	--	77	--	--	--	--	39	--	--	--	--	--	--	--	
06/26/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	123	--	--	--	--	104	--	--	--	--	20	--	--	--	--	--	--	--	
07/16/15	6	VEW-32, VEW-33, VEW-34	--	--	--	--	--	256	--	--	--	--	147	--	--	--	--	17	--	--	--	--	--	--	--	
08/10/15	4,6,8	VEW-32, VEW-33, VEW-34, HW-1, HW-3, HW-5	--	--	--	--	--	456	3.9	--	--	--	334	2.2	--	--	--	63	16	--	--	--	--	--	--	
08/20/15	6.9	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	530	--	--	--	--	329	--	--	--	--	--	--	--	--	--	--	--	--	
09/08/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	395	--	--	--	--	162	--	--	--	--	--	--	--	--	--	--	--	--	
09/16/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	266	--	--	--	--	184	--	--	--	--	--	--	--	--	--	--	--	--	
10/09/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	343	--	--	--	--	258	--	--	--	--	--	--	--	--	--	--	--	--	
11/04/15	6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	401	--	--	--	--	184	--	--	--	--	--	--	--	--	--	--	--	--	
12/07/15	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	327	14	--	--	--	246	12	--	--	--	88	22	--	--	--	--	--	--	
01/13/16	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	220	17	--	--	--	260	22	--	--	--	72	34	--	--	--	--	--	--	
02/08/16	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	160	11	--	--	--	220	28	--	--	--	55	42	--	--	--	--	--	--	
03/02/16	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	120	15	--	--	--	240	32	--	--	--	47	31	--	--	--	--	--	--	
04/06/16	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	60	12	--	--	--	380	18	--	--	--	29	22	--	--	--	--	--	--	
05/04/16	4.6	VEW-32, VEW-33, HW-1, HW-3, HW-5	--	--	--	--	--	90	19	--	--	--	340	25	--	--	--	36	18	--	--	--	--	--	--	
06/17/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34
07/06/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
08/05/16	6	HW-1, HW-3, HW-5	--	--	--	--	--	20	8.3	--	--	--	140	34	--	--	--	11	9.0	--	--	--	--	--		
09/01/16	6,10	HW-1, HW-3, HW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10/20/16	4,6,10,11	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	32	6.4	--	--	--	80	30	--	--	--	9.1	7.3	--	--	--	--	--		
11/01/16	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/05/16	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	20	7.1	--	--	--	60	20	--	--	--	17	8.8	--	--	--	--	--		
01/09/17	6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
02/06/17	4,6,10	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	12	5.4	--	--	--	45	14	--	--	--	11	6.1	--	--	--	--	--		
03/20/17	12	HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
04/17/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05/03/17		HW-1, HW-3, HW-5, HW-7	--	--	--	--	--	15	6.7	--	--	--	33	19	--	--	--	17	8.1	--	--	--	--	--		
06/05/17		HW-1, HW-3, HW-5	--	--	--	--	--	10	11	--	--	--	14	12	--	--	--	8.0	7.1	--	--	--	--	--		
07/19/17	13	HW-5, HW-7 and VEW-39	--	--	--	--	--	12	4.8	--	--	--	47	6.2	--	--	--	9.3	4.1	--	--	--	--	--		
08/09/17	1,2,3	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	1,268	--	--	--	--	5.5	5.4	16	120	--	27	3.7	--	76	374	7.7	2.3	2,440	--	--	--	1,164		
09/07/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,860	--	--	--	--	9.2	10	99	495	--	20	14	--	90	679	11	5.5	2,870	--	--	--	320		
10/12/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,480	--	--	--	--	13	12	75	310	--	28	19	--	120	580	14	9.3	2,620	--	--	--	660		
11/02/17	2,2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	3,140	--	--	--	--	10	9.1	50	225	--	23	15	--	140	430	11	6.6	3,200	--	--	--	840		
12/11/17	2,3	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	2,250	--	--	--	--	7.7	9.1	60	180	--	20	8.8	--	80	350	9.3	5.1	3,040	--	--	--	590		
03/14/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	2,520	15	12	40	28	7.2	4.3	31	181	420	2.4	0.4	5.1	5.5	937	8.1	7.3	2,000	1,235	68	598	4,600		
07/16/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	725	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/30/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--	--	401	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
08/29/18	4,5	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, -4, -5, -7, -9, -10, -11, -13, -14, -18 and -26	--	--	--	--	--	--	--	475	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/03/18	4,5	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW 40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	--	--	--	--	--	--	--	--	--	641	--	--	--	--	952	--	--	--	8,157	--	>15,000	>15,000	>15,000	
03/12/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW 40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	190	0	0	16	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
03/27/19	3,6	HW-1, HW-5, HW-7, RW-1, -4, -5, -9, -10, -11, -14, -18, VEW 40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	838	0	--	--	--	--	--	402	--	1,172	--	--	--	992	--	--	13,772	--	--	1,021	1,850	6,280		
06/05/19	3	RW-1, -4, -5, -9, -10, -11, -14, -18, VEW-40, RW-22, -24, -26, -27, -28, -29, -35, -40, -44, 30, -32, -33, -36, -37, -41, -42, -43, -46, -47, -48, -49, -50	574	--	--	--	--	--	--	--	--	10	--	--	--	420	--	--	3,420	--	--	776	1,083	4,210		
07/23/19		(RW-1), (RW-11), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10	643	--	--	--	--	--	--	--	--	6	--	--	--	130	--	--	724.0	--	--	851	805	2,750		
08/26/19	7	(RW-1), (RW-18), (RW-13), (RW-4), RW-5, RW-9, RW-10	678	2	3	19	3	--	--	33	52	5	--	40.0	37	7	7	13.0	7.0	1,520	1,380	522	430	512		

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																							
			Truckline #1, VECV #1					Truckline #1, VECV #2					Truckline #1, VECV #3					Truckline #1, VECV #4				Truckline #1, VECV #5				
			RW-1	RW-6	RW-15	RW-16	RW-17	VEW-32	VEW-37	RW-2	RW-7	RW-11	VEW-33	VEW-36	RW-8	RW-12	RW-18	VEW-34	VEW-35	RW-13	RW-14	RW-3	RW-4	RW-5	RW-9	RW-10
			15 - 35	17 - 37	18 - 38	14 - 34	19 - 39	10 - 25	10 - 25	13 - 33	17 - 37	16 - 36	10 - 25	10 - 25	18.5 - 38.5	14 - 34	18 - 38	10 - 25	10 - 25	15 - 35	14 - 34	17 - 37	14 - 34	14 - 34	15 - 35	14 - 34
09/23/19		(RW-1), (RW-18), (RW-13), (RW-4, RW-5, RW-9, RW-10)	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177	258	306	179	145	679	637		
12/03/19	7	(RW-1), (RW-13, RW-14), (RW-4, RW-5, RW-9, RW-10)	4	2	2	--	--	--	--	2	434	--	--	--	--	--	10	6	226	124	--	28	--	116	146	
01/08/20		(RW-1), (RW-7), (RW-13, RW-14), (RW-4, RW-9, RW-10)	1,050	--	--	--	--	--	--	466	--	--	--	--	--	--	--	630	184	--	360	--	1,720	900		
03/02/20	7	(RW-1), (RW-2, RW-7), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	1,156	--	--	--	--	--	2	1,370	262	--	--	2	1,024	2	14	2	2	88	128	46	202	8	836	746
04/30/20		(RW-1), (RW-2, RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	694	--	--	--	--	--	--	10	84	--	--	--	514	--	--	--	110	164	148	188	--	2,158	710	
05/21/20		(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	794	--	--	--	--	--	--	--	56	--	--	--	245	--	--	--	135	98	108	164	--	1,530	620	
09/29/20	7	(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	704	8	4	--	--	--	--	--	10	--	--	--	38	--	2	4	2	102	--	62	112	--	780	350
10/27/20		(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	834	--	--	--	--	--	--	--	36	--	--	--	60	--	--	--	1,262	0	108	140	--	1,028	274	
01/21/21	7	(RW-1), (RW-7), (RW-8), (RW-13, RW-14), (RW-3, RW-4, RW-9, RW-10)	604	4	0	0	0	0	0	0	40	0	0	0	116	0	6	0	0	1,676	4	6	140	2	2,086	28
03/05/21		(RW-1), (RW-7), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	740	--	--	--	--	--	--	--	6	--	--	--	46	--	--	--	442	--	22	160	--	1,660	142	
04/27/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	702	--	--	--	--	--	--	--	--	--	--	--	16	--	--	--	308	--	60	114	--	1,650	76	
07/22/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	652	--	--	--	--	--	--	--	--	--	--	--	27	--	--	--	206	--	40	206	--	995	42	
09/02/21		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	722	--	--	--	--	--	--	--	--	--	--	--	19	--	--	--	272	--	55	187	--	1,121	36	
01/14/22		(RW-1), (RW-8), (RW-13), (RW-3, RW-4, RW-9, RW-10)	514	--	--	--	--	--	--	--	--	--	--	--	34	--	--	--	64	--	34	130	--	1,200	28	
03/11/22		(RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10)	424	--	--	--	--	--	--	--	--	--	--	--	4	--	--	--	44	--	30	90	--	968	26	
08/17/22		(RW-1), (RW-13), (RW-3, RW-4, RW-9, RW-10)	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	2	10	--	646	24	
12/13/23		(RW-1), (RW-3, RW-10)	40	4	4	2	2	0	0	2	0	0	0	2	8	0	0	0	0	0	178	0	0	4	8	

Legend / Notes:

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

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																				
			Trunkline #2, VECV #6				Trunkline #2, VECV #7				Trunkline #2, VECV #8				Trunkline #2, VECV #9				Trunkline #2, VECV #10				Trunkline #2, VECV #11				Trunkline #2, VECV #12				Trunkline #2, VECV #13								
			RW-21	RW-23	VEV-39	RW-30	RW-31	RW-32	RW-34	VEV-38	RW-26	RW-28	RW-24	RW-25	RW-27	RW-33	RW-43	RW-19	RW-20	RW-22	RW-29	RW-45	RW-35	RW-38	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48	RW-49	RW-50			
08/09/17	1,2	HW-1, HW-5, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	160	787	--	6,550	7,165	820	--	--	4,340	8,420	1,525	--	1,230	--	129	1,775	620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/07/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	110	141	--	8,240	3,400	715	--	--	3,290	8,080	1,423	--	836	--	58	1,379	1,123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
10/12/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	165	340	--	5,800	5,200	955	--	--	3,880	9,190	1,200	--	900	--	220	1,800	818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
11/02/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	140	250	--	7,330	4,300	1,060	--	--	2,900	6,400	1,770	--	620	--	170	1,410	909	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/11/17	2	HW-1, HW-7, VEW-38, VEW-39, VEW-40, and Select RW Wells	120	230	--	6,400	3,900	700	--	--	3,400	7,170	1,605	--	510	--	190	1,660	764	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
03/14/18		HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-1, 4, 5, 7, 9, 10, 11, 13, 14, 18 and 26	80	320	--	2,900	1,730	800	--	--	1,800	3,100	950	--	180	--	280	840	660	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, 20, 22, 24, 26 through -30, -32, -33, -35 through -38 and -40 through -50	55	1,896	--	32	80	421	80	--	1,821	5,000	459	89	1,215	843	--	43	42	2,595	2,563	--	416	134	24	1,782	--	452	1,509	849	3,040	--	191	886	728	56			
07/30/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, 20, 22, 24, 26 through -30, -32, -33, -35 through -38 and -40 through -50	--	--	--	1,630	1,253	--	--	3,261	>15,000	1,383	--	767	1,283	--	--	2,928	1,341	--	522	--	--	778	--	2,166	1,930	--	>15,000	--	3,968	672	1,008	692	--				
08/29/18	3	HW-1, HW-5, HW-7, VEW-38, VEW-40, RW-19, 20, 22, 24, 26 through -30, -32, -33, -35 through -38 and -40 through -50	--	475	--	4,160	3,378	1,715	1,630	--	>15,000	2,127	>15,000	1,320	--	699	1,324	--	--	2,558	1,721	--	658	--	--	856	--	2,616	2,049	4,925	>15,000	--	4,460	641	2,359	674			
12/03/18	3	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, 10, 11, 13, 14, 18, VEW-40, RW-22, 24, 26, 27, 28, 29, 35, 40, 44, 30, 32, 33, 36, 37, 41, 42, 43, 46, 47, 48, 49, 50	--	389	--	4,373	4,284	--	3,376	--	--	>15,000	857	--	2,685	1,013	--	--	362	--	--	532	--	--	538	--	1,507	1,123	>15,000	>15,000	--	--	596	61	309	--			
03/27/19	3	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, 10, 11, 13, 14, 18, VEW-40, RW-22, 24, 26, 27, 28, 29, 35, 40, 44, 30, 32, 33, 36, 37, 41, 42, 43, 46, 47, 48, 49, 50	--	402	--	1,613	3,764	1,013	4,284	--	>15,000	316	4,400	124	--	214	975	--	--	402	--	--	399	--	--	1,116	--	961	715	5,575	>15,000	--	>15,000	549	2,740	--	--		
05/08/19	3	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, 10, 11, 13, 14, 18, VEW-40, RW-22, 24, 26, 27, 28, 29, 35, 40, 44, 30, 32, 33, 36, 37, 41, 42, 43, 46, 47, 48, 49, 50	--	14	--	--	--	283	3,764	--	--	--	--	--	7	--	--	--	569	172	--	--	--	14	94	--	--	>15,000	248	--	1,107	709	2,740	--	--				
05/31/19	3	HW-1, HW-5, HW-7, RW-1, 4, 5, 9, 10, 11, 13, 14, 18, VEW-40, RW-22, 24, 26, 27, 28, 29, 35, 40, 44, 30, 32, 33, 36, 37, 41, 42, 43, 46, 47, 48, 49, 50	--	13	--	1,326	896	325	--	--	246	3,960	85	--	80	181	--	--	493	223	--	--	--	--	--	--	--	--	--	--	--	--	42	--	--	--			
06/05/19		HW-1, HW-5, HW-7, RW-1, 4, 5, 9, 10, 11, 13, 14, 18, VEW-40, RW-22, 24, 26, 27, 28, 29, 35, 40, 44, 30, 32, 33, 36, 37, 41, 42, 43, 46, 47, 48, 49, 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,414	--	384	639	1,107	561	--			
07/22/19		(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	23	--	827	679	293	--	2,250	370	3,880	145	--	75	205	61	--	634	311	65	123	--	--	203	224	461	245	1,743	1,465	--	363	780	1,175	688	--			
08/26/19	7	(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	4	11	10	431	407	331	15	25	2,460	229	2,440	154	12	64	189	42	10	10	505	211	59	98	74	7	135	179	235	153	986	813	75	397	794	950	630		
09/23/19		(RW-23), (RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-24, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	12	--	453	340	325	--	23	1,670	233	1,752	89	--	47	180	44	--	--	578	320	29	101	--	--	126	15	316	264	1,113	750	--	147	313	128	267		
12/04/19	7	(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	8	392	226	160	18	18	1,838	314	2,454	10	14	4	140	8	--	--	--	--	120	2	4	170	24	344	216	1,126	638	28	270	504	80	400			
01/08/20	3	(RW-30, RW-31, RW-32), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	630	330	260	--	<20	1,920	222	2,700	--	--	--	144	--	--	--	--	--	94	--	--	104	--	352	280	1,100	600	--	330	640	84	316			
03/05/20	3,7	(RW-21, RW-23), (VEW-39, RW-30, RW-31, RW-32, RW-34), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-19, RW-20, RW-22, RW-29, RW-45), (RW-35, RW-36, RW-39, RW-40, RW-44), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	4	454	536	240	0	8	1,945	470	3,940	4	4	0	126	4	4	4	508	346	2	46	0	0	80	2	270	182	1,192	688	4	292	520	196	294		
05/01/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	388	254	186	--	--	1,720	354	1,800	--	--	141	--	--	--	284	246	--	2	--	--	96	--	259	134	1,252	572	--	302	997	155	235			
05/21/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	375	248	188	--	--	1,650	405	2,478	--	--	102	--	--	--	170	82	--	20	--	--	70	--	186	132	1,156	622	--	230	352	212	224			
10/02/20	7	(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	2	--	4	174	54	68	5	24	750	72	926	--	--	--	66	4	--	--	--	110	70	16	18	--	4	56	6	252	122	1,044	574	66	54	76	16	128	
10/27/20		(RW-30, RW-31, RW-32), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	242	184	116	18	--	1,115	302	2,352	--	--	--	118	--	--	--	184	165	--	16	--	--	86	--	208	162	988	588	--	270	386	10	178		
01/21/21	7	(RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-22, RW-29), (RW-35, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	0	0	6	0	0	0	0	2	12	0	2	0	0	0	0	0	0	0	0	64	8	0	2	2	0	2	2	96	94	1,156	394	8	166	462	0	104
03/05/21		(RW-21, RW-23), (RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-24, RW-25, RW-27, RW-33, RW-43), (RW-22, RW-29, RW-45), (RW-35, RW-36, RW-39, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	8	4	--	282	--	--	--	36	1,144	136	842	10	4	16	42	8	--	--	--	8	2	--	16	--	--	102	--	196	90	844	524	--	130	288	14	104	
04/29/21		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	178	--	--	--	2	715	26	388	--	--	22	--	--	--	--	--	--	--	--	--	--	--	208	94	620	412	--	78	74	14	74			
07/22/21		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	--	--	--	--	2	738	68	636	--	--	--	60	--	--	--	--	--	--	--	--	--	--	184	87	688	362	--	10	18	2	34			

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

Date	Notes	Vapor Extraction System(s) Wells On Line *	Well GRO Concentration (ppmv) / Screen Interval in Feet Below Grade																																	
			Trunkline #2, VECV #6		Trunkline #2, VECV #7				Trunkline #2, VECV #8				Trunkline #2, VECV #9				Trunkline #2, VECV #10				Trunkline #2, VECV #11				Trunkline #2, VECV #12				Trunkline #2, VECV #13							
			RW-21	RW-23	VEW-39	RW-30	RW-31	RW-32	RW-34	VEW-38	VEW-40	RW-26	RW-28	RW-24	RW-25	RW-27	RW-33	RW-43	RW-19	RW-20	RW-22	RW-29	RW-45	RW-35	RW-36	RW-39	RW-40	RW-44	RW-36	RW-37	RW-41	RW-42	RW-46	RW-47	RW-48	RW-49
13 - 33	13 - 33	20 - 30	13 - 33	13 - 33	13 - 33	13 - 33	20 - 30	20 - 30	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	14 - 33	15 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33	13 - 33		
09/02/21		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	210	--	--	--	2	725	71	586	--	--	--	55	--	--	--	--	8	--	--	75	--	136	78	726	351	--	62	54	8	65	
10/06/22	7	(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	0	10	4	160	4	8	12	2	554	30	318	2	0	0	52	0	0	0	0	2	28	0	0	74	8	130	102	716	264	10	--	--	--	
01/13/22		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	160	--	--	--	44	674	140	680	--	--	--	78	--	--	--	--	95	--	--	72	--	104	454	706	212	--	30	6	0	48	
03/01/22		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	155	--	--	--	35	586	105	706	--	--	--	66	--	--	--	--	43	--	--	75	--	115	95	690	275	--	42	21	2	55	
08/04/22		(RW-30), (VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	--	--	--	122	--	--	--	--	440	40	200	--	--	--	82	--	--	--	--	10	--	--	48	--	70	142	598	336	--	68	12	4	70	
12/13/23		(RW-30), (VEW-38, VEW-40, RW-26, RW-28), (RW-33), (RW-35, RW-40), (RW-36, RW-37, RW-41, RW-42), (RW-47, RW-48, RW-49, RW-50)	4	6	0	32	0	0	0	4	108	28	164	4	0	4	50	4	4	4	2	4	66	--	--	--	--	20	66	264	240	12	10	2	2	30

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

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
HW-1	07/09/14	1	8015 & 8260B	69	23	96	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			3.3	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			1,455	830	3,400	1.1	3.5	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			1,947	2,700	11,000	1.0	3.3	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/08/16			520	440	1,800	0.88	2.8	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			420	340	1,400	1.0	3.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	01/18/17	2		80	88	310	0.59	1.9	0.18	0.67	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	11/02/17			346	240	1,000	0.59	1.9	<0.13	<0.50	0.15	0.66	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/12/18			60	27	110	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18			167	180	730	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/06/18			--	110	450	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/12/19			1,845	810	3,300	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/25/19			730	200	820	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/18/20			139	24	98	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			199	24	100	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			141	12	50	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/05/20			107	8.3	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/24/21			43	8.3	34	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	07/07/21			79	17	68	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	10/18/21			38	14	58	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	01/18/22			38	6.4	26	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	05/10/22			41	6.8	28	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	08/08/22			12	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	11/10/22			26	5.4	22	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	02/21/23			62	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	06/08/23			--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
09/26/23		6.5	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
HW-3 *	07/09/14	1		20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			20	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			138	66	270	0.28	0.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			28	7.3	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	01/18/17	2		17	8.5	30	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
HW-5	07/09/14	1		140	46	190	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			2.9	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			400	290	1,200	0.17	0.55	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.30	1.3	<0.55	<2.0
	08/10/15			676	930	3,800	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/08/16			300	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			260	210	870	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
08/08/16			190	120	480	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
HW-5	01/18/17	2	8015 & 8260B	180	85	300	0.34	1.1	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	11/02/17			105	39	160	0.21	0.7	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
HW-5	02/12/18		8015 & 8260B	75	90	370	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/28/18			91	140	560	0.63	2.0	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/06/18			--	100	410	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/12/19			696	270	1,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/25/19			501	170	710	0.56	1.8	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/18/20			4.0	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			7.5	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			12	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/05/20			49	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/24/21			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	07/07/21			37	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	10/18/21			7.0	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	01/18/22			22	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	05/10/22			55	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	08/08/22			5.7	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	11/10/22			1.7	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
02/21/23	17	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0			
06/08/23	--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0			
09/26/23	1.2	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0			
HW-7 *	07/09/14	1	8015 & 8260B	4,176	2,055	8,400	3.1	10	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	10/23/14			2.0	<4.9	<20	<0.2	<0.50	<0.1	<0.50	<0.1	<0.50	<0.1	<0.50	<0.2	<1.0	<0.6	<2.0
	04/27/15			810	590	2,400	3.4	11	0.69	2.6	0.32	1.4	0.20	0.88	1.2	5.0	<0.55	<2.0
	08/10/15			732	950	3,900	6.3	20	0.34	1.3	0.64	2.8	0.30	1.3	2.3	10	<0.55	<2.0
	02/08/16			240	190	780	1.2	3.8	0.37	1.4	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			220	170	710	1.4	4.4	0.53	2.0	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0
	08/08/16			230	170	710	2.0	6.5	0.56	2.1	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	01/18/17			200	110	370	2.0	6.5	0.82	3.1	0.12	0.52	0.12	0.51	0.35	1.5	<0.55	<2.0
	05/03/17	260		240	1,000	2.1	6.6	1.2	4.6	0.15	0.64	0.15	0.66	0.51	2.2	<0.55	<2.0	
	11/02/17	334		210	860	2.3	7.4	1.2	4.4	0.18	0.78	0.16	0.68	0.51	2.2	<0.55	<2.0	
	02/12/18	290		230	960	1.3	4.0	0.48	1.8	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	03/28/18	270		190	760	0.59	1.9	0.21	0.79	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	08/06/18	--		210	840	1.30	4.2	0.80	3.00	0.12	0.53	0	1	0	2	<0.55	<2.0	
	02/12/19	696		240	1,000	2.30	7.2	0.88	3.30	0.14	0.60	0	1	0	2	<0.55	<2.0	
	11/25/19	730		240	1,000	0.53	1.7	0.42	1.60	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	02/18/20	149		16	64	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
05/15/20	697	190	760	0.81	2.6	0.69	2.6	<0.12	<0.50	0.12	0.54	0.28	1.2	<0.55	<2.0			
08/24/20	615	130	540	0.88	2.8	0.45	1.70	<0.12	<0.50	<0.12	<0.50	0.28	1.2	<0.55	<2.0			

TABLE 10
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 15306 Norwalk Blvd., Norwalk, CA

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
HW-7 *	11/05/20		8015 & 8260B	165	18	72	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	02/24/21			35	6.6	27	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/07/21			153	34	140	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	10/18/21			121	29	120	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	01/18/22			1,373	460	1,900	<0.078	<0.25	0.069	0.26	<0.058	<0.25	0.090	0.39	0.12	0.52	<0.28	<1.0
	05/10/22			373	160	640	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	08/08/22			53	78	320	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	11/10/22			275	100	420	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	02/21/23			14	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	06/08/23			--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
09/26/23		28	11	46	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
HW-8	11/25/19	8	8015 & 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/18/20			3	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			7	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			15	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/05/20			124	<4.9	<20	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	06/08/23			--	95	390	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
HW-9	11/25/19	8	8015 & 8260B	1,820	390	1,600	<0.16	<0.5	<0.13	<0.50	0.25	1.1	0.35	1.50	0.94	4.10	<0.55	<2.0
	02/18/20			530	320	1,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	05/15/20			1,058	510	2,100	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	08/24/20			7,848	560	2,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	11/05/20			1,421	340	1,400	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	02/24/21			1,287	320	1,300	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	07/07/21			613	160	670	<0.16	<0.50	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
	10/18/21			621	180	740	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	0.12	0.53	<0.28	<1.0
	01/18/22			796	210	840	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	05/10/22			754	190	790	<0.078	<0.25	<0.066	<0.25	0.092	0.40	<0.058	<0.25	0.16	0.70	<0.28	<1.0
	08/08/22			420	190	770	<0.078	<0.25	<0.066	<0.25	0.064	0.28	<0.058	<0.25	0.14	0.60	<0.28	<1.0
	11/10/22			281	110	470	<0.078	<0.25	<0.066	<0.25	0.060	0.26	<0.058	<0.25	0.12	0.52	<0.28	<1.0
	02/21/23			2,080	10	41	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0
	06/08/23			--	<4.9	<20	<0.16	<0.5	<0.13	<0.5	<0.12	<0.5	<0.12	<0.5	<0.23	<1.0	<0.55	<2.0
09/26/23		2	<4.9	<20	<0.078	<0.25	<0.066	<0.25	<0.058	<0.25	<0.058	<0.25	<0.12	<0.5	<0.28	<1.0		
VEW-32	07/09/14	1	8015 & 8260B	154	132	540	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			191	19	76	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			210	320	1,300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			456	460	1,900	0.66	2.1	<0.13	<0.50	0.23	1.0	<0.12	<0.50	0.46	2.0	<0.55	<2.0
	02/08/16			160	130	550	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			60	17	68	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			9.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
VEW-33	07/09/14	1	8015 & 8260B	10	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			22	6.6	27	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			324	270	1,100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			334	290	1,200	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.32	1.4	<0.55	<2.0
	02/08/16			220	270	1,100	0.38	1.2	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	04/06/16			380	340	1,400	0.50	1.6	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	0.25	1.1	<0.55	<2.0
	06/27/17			5.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-34	07/09/14	1	8015 & 8260B	4.2	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			8.0	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			115	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			63	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			7.0	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-35	07/09/14	1	8015 & 8260B	5.5	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			28	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			4.8	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			16.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			4.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-36	07/09/14	1	8015 & 8260B	6.4	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			9.1	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			2.2	8.1	33	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			6.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-37	07/09/14	1	8015 & 8260B	20	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	10/23/14			151	<4.9	<20	<0.2	<0.5	<0.1	<0.5	<0.1	<0.5	<0.1	<0.5	<0.2	<1.0	<0.6	<2.0
	04/27/15			2.4	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	08/10/15			3.9	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/17			5.7	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-38	06/27/17	3	8015 & 8260B	331	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	490	2,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			480	440	1,800	<0.16	<0.50	<0.13	<0.50	0.17	0.74	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4	51	8.3	34	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
VEW-39	06/27/17	3	8015 & 8260B	130	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	07/27/17			--	1,100	4,300	0.41	1.3	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.62	2.7	<0.55	<2.0
	09/07/17			190	29	120	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
VEW-40	06/27/17	3	8015 & 8260B	3,018	2,700	11,000	0.28	0.88	<0.13	<0.50	0.99	4.3	<0.12	<0.50	0.81	3.5	<0.55	<2.0
	07/27/17			--	8,800	36,000	1.4	4.4	<0.13	<0.50	8.5	37	0.23	1.0	5.3	23	<0.55	<2.0
	09/07/17			9,200	7,600	31,000	0.97	3.1	<0.13	<0.50	3.7	16	0.25	1.1	2.2	9.0	<0.55	<2.0
	06/27/18	4	5,100	2,900	12,000	<0.78	<2.5	<0.78	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<10	

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
RW-1	08/09/17	5	8015 & 8260B	1,268	1,100	4,400	1.7	5.4	3.7	14	0.85	3.7	0.55	2.4	2.5	11	<0.55	<2.0
	09/07/17			3,860	2,300	9,600	6.3	20	16	60	2.8	12	2.0	8.9	7.4	32	<0.55	<2.0
RW-2	08/09/17	5		16	39	160	0.19	0.61	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			31	22	92	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-3	03/14/18	6		68	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-4	03/14/18	6		598	460	1,900	1.8	5.9	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-5	03/14/18	6		4,600	2,900	12,000	1.7	5.5	<0.13	<0.50	0.78	3.4	0.18	0.76	2.5	11	<0.55	<2.0
RW-7	08/09/17	5		120	320	1,300	<0.16	<0.50	0.14	0.53	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			54	64	260	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-9	08/09/17	5		1,164	1,100	4,500	0.44	1.4	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			320	240	1,000	0.75	2.4	<0.13	<0.50	0.19	0.83	<0.12	<0.50	0.41	1.8	<0.55	<2.0
	03/14/18			2,824	2,000	8,100	18	59	<0.13	<0.50	5.1	22	3.0	13	9.4	41	<0.55	<2.0
RW-10	03/14/18	6		>10,000	14,000	58,000	14	45	<0.13	<0.50	0.69	3.0	0.53	2.3	5.8	25	<0.55	<2.0
RW-11	03/14/18	6		420	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-12	08/09/17	5		76	100	420	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	03/14/18			5.5	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-13	08/09/17	5		2,440	1,800	7,400	1.6	5.0	<0.13	<0.50	0.22	0.95	0.28	1.2	1.7	7.4	<0.55	<2.0
	09/07/17			2,870	1,800	7,400	5.9	19.0	<0.13	<0.50	1.8	7.9	1.5	6.4	6.4	28	<0.55	<2.0
	03/14/18			2,000	7,300	30,000	9.1	29	<0.13	<0.50	0.64	2.8	0.46	2.0	1.8	7.6	<0.55	<2.0
RW-14	03/14/18	6		1,235	950	3,900	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-18	08/09/17	5		374	170	700	1.3	4.2	<0.13	<0.50	0.32	1.4	0.28	1.2	1.2	5.3	<0.55	<2.0
	09/07/17			679	320	1,300	2.2	7.1	0.7	3	0.62	2.7	0.53	2.3	2.2	9.6	<0.55	<2.0
	03/14/18			937	490	2,000	1.4	4.4	<0.13	<0.50	<0.12	<0.50	0.25	1.1	0.76	3.3	<0.55	<2.0
RW-19	06/27/18	4		43	4.9	20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-20	08/16/17	5		129	73	300	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17		58	61	250	<0.16	<0.50	<0.13	<0.50	0.16	0.69	<0.12	<0.50	0.32	1.4	<0.55	<2.0	
RW-21	08/09/17	5	42	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18		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	08/09/17	5	55	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	06/27/18		1,775	1,600	6,700	0.38	1.2	<0.13	<0.50	3.2	14	0.20	0.88	4.6	20	<0.55	<2.0	
RW-23	08/09/17	5	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	
	09/07/17		2,595	1,200	4,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<10	
RW-24	08/09/17	5	787	660	2,700	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		141	83	340	<0.16	<0.50	<0.13	<0.50	0.25	1.1	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-25	08/16/17	5	1,525	1,400	5,900	<0.16	<0.50	<0.13	<0.50	0.19	0.82	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
	09/07/17		1,423	930	3,800	<0.16	<0.50	<0.13	<0.50	0.37	1.6	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-25	06/27/18	4	459	98	400	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	
RW-25	06/27/18	4	89	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0	

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
RW-26	08/09/17	5	8015 & 8260B	4,340	7,100	29,000	0.23	0.75	<0.13	<0.50	0.94	4.1	<0.12	<0.50	0.35	1.5	<0.55	<2.0
	09/07/17			3,290	3,200	13,000	<0.16	<0.50	<0.13	<0.50	0.88	3.8	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		1,821	710	2,900	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-27	06/27/18	4		1,215	420	1,700	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-28	08/09/17	5		8,420	7,600	31,000	2.4	7.6	<0.13	<0.50	9.4	41	0.28	1.2	3.7	16	<0.55	<2.0
	09/07/17			8,080	7,300	30,000	1.7	5.5	<0.13	<0.50	8.1	35	0.25	1.1	3.0	13	<0.55	<2.0
	06/27/18	4		5,000	4,200	17,000	<0.78	<2.5	<0.66	<2.5	2.3	10	<0.58	<2.5	1.9	8.2	<2.8	<1.0
RW-29	08/09/17	5		620	640	2,600	0.16	0.52	<0.13	<0.50	0.17	0.75	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			1,123	930	3,800	0.17	0.54	<0.13	<0.50	0.13	0.56	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		2,563	780	3,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-30	08/09/17	5		6,550	12,000	50,000	0.85	2.7	<0.13	<0.50	17	72	<0.12	<0.50	0.81	3.5	<0.55	<2.0
	09/07/17			8,240	3,200	13,000	<0.16	<0.50	<0.13	<0.50	6.9	30	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-30	06/27/18	4		32	13	54	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-31	08/09/17	5		7,165	6,800	28,000	1.2	3.9	0.20	0.76	3.2	14	1.6	7.1	3.7	16	<0.55	<2.0
	09/07/17			3,400	2,900	12,000	0.4	1.4	<0.13	<0.50	3.0	13	1.1	4.9	2.3	10	<0.55	<2.0
	06/27/18	4		80	12	51	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-32	08/16/17	5		820	880	3,600	<0.16	<0.50	<0.13	<0.50	0.78	3.4	<0.12	<0.50	0.28	1.2	<0.55	<2.0
	09/07/17			715	810	3,300	0.17	0.54	<0.13	<0.50	0.55	2.4	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		421	66	270	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-33	08/16/17	5		1,230	860	3,500	<0.16	<0.50	<0.13	<0.50	0.44	1.9	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	09/07/17			836	640	2,600	<0.16	<0.50	<0.13	<0.50	0.35	1.5	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
	06/27/18	4		843	210	840	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-34	06/27/18	4		46	<4.9	<20	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-35	06/27/18	4		416	83	340	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-36	06/27/18	4		452	440	1,800	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-37	06/27/18	4		1,509	210	850	<0.31	<1.0	<0.27	<1.0	<0.23	<1.0	<0.23	<1.0	<0.46	<2.0	<1.1	<4.0
RW-38	06/27/18	4		134	24	100	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-39	06/27/18	4		24	37	150	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-40	06/27/18	4		1,782	2,900	12,000	<0.78	<2.5	<0.66	<2.5	0.78	3.4	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-41	06/27/18	4		849	1,300	5,300	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-42	06/27/18	4		3,040	1,500	6,200	<0.78	<2.5	<0.66	<2.5	<0.58	<2.5	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0
RW-43	06/27/18	4		886	230	950	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-44	06/27/18	4		728	88	360	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	2.2	9.4	0.60	2.6	<0.55	<2.0
RW-45	06/27/18	4		56	14	57	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	0.12	0.50	<0.23	<1.0	<0.55	<2.0
RW-46	06/27/18	4		191	44	180	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-47	06/27/18	4		751	240	1,000	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-48	06/27/18	4		1,454	540	2,200	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-49	06/27/18	4		823	180	720	<0.16	<0.50	<0.13	<0.50	<0.12	<0.50	<0.12	<0.50	<0.23	<1.0	<0.55	<2.0
RW-50	06/27/18	4		5,000	1,600	6,500	<0.78	<2.5	<0.66	<2.5	1.2	5.0	<0.58	<2.5	<1.2	<5.0	<2.8	<1.0

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

Well ID	Sample Date	Notes	Laboratory Analysis Methods	GRO Field OVA Reading	GRO		Benzene		Toluene		Ethylbenzene		o-Xylene		m,p-Xylenes		MTBE	
				(ppmv)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)	(ppmv)	(µg/L)
RTF-18-NW	10/05/17	7	8015 & 8260B	9,000	16,000	67,000	100	330	0.18	0.66	12	52	13	56	60	260	<0.55	<2.0
	10/09/17	7		3,635	18,000	72,000	170	550	<1.3	<5.0	17	75	19	83	92	400	<5.5	<20

Legend / Notes:

GRO = Gasoline range organics

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

MTBE = Methyl tertiary-butyl ether

ppmv = Parts per million by volume

µg/L = Micrograms per liter

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

-- = Not measured

- **Reported concentrations are shown in bold.**

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

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

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

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

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

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

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

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

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

TABLE 11A
Biosparge System Operations Summary - October
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow-dP (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
10/01/23	*		27,531.0	--	--	--	--	--	--	--
10/02/23	*		27,549.3	--	--	--	--	--	--	--
10/03/23	*		27,567.5	--	--	--	--	--	--	--
10/04/23	*		27,585.8	--	--	--	--	--	--	--
10/05/23	*		27,604.1	--	--	--	--	--	--	--
10/06/23	Technician		27,622.4	122	100	100	10	5.0	9	100
10/07/23	*		27,624.3	--	--	--	--	--	--	--
10/08/23	*		27,626.2	--	--	--	--	--	--	--
10/09/23	*		27,628.2	--	--	--	--	--	--	--
10/10/23	*		27,630.1	--	--	--	--	--	--	--
10/11/23	*		27,632.0	--	--	--	--	--	--	--
10/12/23	*		27,633.9	--	--	--	--	--	--	--
10/13/23	*		27,635.8	--	--	--	--	--	--	--
10/14/23	*		27,637.7	--	--	--	--	--	--	--
10/15/23	*		27,639.7	--	--	--	--	--	--	--
10/16/23	*		27,641.6	--	--	--	--	--	--	--
10/17/23	*		27,643.5	--	--	--	--	--	--	--
10/18/23	Technician	1, 2	27,645.4	124	174	86	15	5.5	16	90
10/19/23	Technician		27,649.8	--	--	--	--	--	--	--
10/20/23	*		27,654.3	--	--	--	--	--	--	--
10/21/23	*		27,658.7	--	--	--	--	--	--	--
10/22/23	*		27,663.1	--	--	--	--	--	--	--
10/23/23	*		27,667.5	--	--	--	--	--	--	--
10/24/23	*		27,672.0	--	--	--	--	--	--	--
10/25/23	Technician	1	27,676.4	125	151	77	32	--	--	75
10/26/23	*		27,687.4	--	--	--	--	--	--	--
10/27/23	*		27,698.4	--	--	--	--	--	--	--
10/28/23	*		27,709.4	--	--	--	--	--	--	--
10/29/23	*		27,720.4	--	--	--	--	--	--	--
10/30/23	*		27,731.4	--	--	--	--	--	--	--
10/31/23	*		27,742.4	--	--	--	--	--	--	--

Legend / Notes:

1 = Biosparge system automatically shut down prior to technician visit, restarted upon arrival.
 2 = Trunkline groupings and run times adjusted for system optimization.

System operating under SCAQMD Various Locations Permit #G52288

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

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

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

TABLE 11B
Biosparge System Operations Summary - November
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
11/01/23	Technician		27,753.4	116	110	--	16	--	16.0	85
11/02/23	*		27,764.4	--	--	--	--	--	--	--
11/03/23	*		27,775.4	--	--	--	--	--	--	--
11/04/23	*		27,786.4	--	--	--	--	--	--	--
11/05/23	*		27,797.4	--	--	--	--	--	--	--
11/06/23	*		27,808.4	--	--	--	--	--	--	--
11/07/23	*		27,819.4	--	--	--	--	--	--	--
11/08/23	*		27,830.4	--	--	--	--	--	--	--
11/09/23	Technician		27,841.4	128	160	80	--	--	16.0	80
11/10/23	*		27,854.2	--	--	--	--	--	--	--
11/11/23	*		27,866.9	--	--	--	--	--	--	--
11/12/23	*		27,879.7	--	--	--	--	--	--	--
11/13/23	*		27,892.4	--	--	--	--	--	--	--
11/14/23	*		27,905.2	--	--	--	--	--	--	--
11/15/23	*		27,917.9	--	--	--	--	--	--	--
11/16/23	*		27,930.7	--	--	--	--	--	--	--
11/17/23	Technician		27,943.4	119	70	--	17	8.0	17.0	80
11/18/23	*		27,962.4	--	--	--	--	--	--	--
11/19/23	*		27,981.4	--	--	--	--	--	--	--
11/20/23	*		28,000.4	--	--	--	--	--	--	--
11/21/23	Technician		28,019.4	94	182	85	17	--	16.0	--
11/22/23	*		28,047.6	--	--	--	--	--	--	--
11/23/23	*		28,075.7	--	--	--	--	--	--	--
11/24/23	*		28,103.9	--	--	--	--	--	--	--
11/25/23	*		28,132.1	--	--	--	--	--	--	--
11/26/23	*		28,160.2	--	--	--	--	--	--	--
11/27/23	Technician		28,188.4	18	75	--	17	4.0	17.0	80
11/28/23	*		28,193.1	--	--	--	--	--	--	--
11/29/23	*		28,197.7	--	--	--	--	--	--	--
11/30/23	*		28,202.4	--	--	--	--	--	--	--

Legend / Notes:

System operating under SCAQMD Various Locations Permit #G52288

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

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

psig = pounds per square inch

in. WC = inches of water column

°F = Degrees Fahrenheit

NA = Not available

HE = Heat Exchanger

-- = Not applicable or not measured

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

TABLE 11C
Biosparge System Operations Summary - December
 DFSP Norwalk
 15306 Norwalk Blvd., Norwalk, CA

Date	Data Source	Notes	Cumulative Blower Runtime (hours)	Blower Discharge Pressure (psig)	Blower Discharge Temperature (°F)	HE Outlet Temperature (°F)	Main Header Pressure (psig)	Sparge Total Flow (in WC)	Sparge Total Pressure (psig)	Sparge Total Temperature (°F)
12/01/23	*		28,207.1	--	--	--	--	--	--	--
12/02/23	*		28,211.7	--	--	--	--	--	--	--
12/03/23	*		28,216.4	--	--	--	--	--	--	--
12/04/23	Technician	1	28,221.1	--	--	--	--	--	--	--
12/05/23	*		28,225.7	--	--	--	--	--	--	--
12/06/23	Technician	2	28,230.4	120	85	--	19	3.0	16	85
12/07/23	*		28,249.9	--	--	--	--	--	--	--
12/08/23	*		28,269.4	--	--	--	--	--	--	--
12/09/23	*		28,288.9	--	--	--	--	--	--	--
12/10/23	*		28,308.4	--	--	--	--	--	--	--
12/11/23	*		28,327.9	--	--	--	--	--	--	--
12/12/23	Technician		28,347.4	101	134	90	25	5.0	17	70
12/13/23	*		28,366.8	--	--	--	--	--	--	--
12/14/23	*		28,386.2	--	--	--	--	--	--	--
12/15/23	*		28,405.5	--	--	--	--	--	--	--
12/16/23	*		28,424.9	--	--	--	--	--	--	--
12/17/23	*		28,444.3	--	--	--	--	--	--	--
12/18/23	*		28,463.7	--	--	--	--	--	--	--
12/19/23	*		28,483.0	--	--	--	--	--	--	--
12/20/23	Technician	3	28,502.4	34	75	--	14	7.0	14.0	76
12/21/23	*		28,509.2	--	--	--	--	--	--	--
12/22/23	*		28,516.0	--	--	--	--	--	--	--
12/23/23	*		28,522.7	--	--	--	--	--	--	--
12/24/23	*		28,529.5	--	--	--	--	--	--	--
12/25/23	*		28,536.3	--	--	--	--	--	--	--
12/26/23	*		28,543.1	--	--	--	--	--	--	--
12/27/23	*		28,549.8	--	--	--	--	--	--	--
12/28/23	*		28,556.6	--	--	--	--	--	--	--
12/29/23	Technician	3	28,563.4	116	80	--	25	3.0	15.0	78
12/30/23	*		28,570.2	--	--	--	--	--	--	--
12/31/23	*		28,577.0	--	--	--	--	--	--	--

Legend / Notes:

- 1 = Biosparge system manually shut down.
- 2 = Biosparge system restarted.
- 3 = Biosparge system automatically shut down prior to technician visit, restarted upon arrival.

System operating under SCAQMD Various Locations Permit #G52288

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

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

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

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

October 27, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335291 / 3J19010**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/19/23 16:46 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23

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

VES Carbon-Influent	3J19010-01	Vapor	5	10/19/23 09:55	10/19/23 16:46
VES Carbon-Effluent	3J19010-02	Vapor	5	10/19/23 10:10	10/19/23 16:46

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3J19010-01	Vapor	5	10/19/23 09:55	10/19/23 16:46
VES Carbon-Effluent	3J19010-02	Vapor	5	10/19/23 10:10	10/19/23 16:46

VOCs in Vapor as Hexane

VES Carbon-Influent	3J19010-01	Vapor	5	10/19/23 09:55	10/19/23 16:46
VES Carbon-Effluent	3J19010-02	Vapor	5	10/19/23 10:10	10/19/23 16:46

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Carbon-Influent
3J19010-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	108 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Carbon-Effluent
3J19010-02 (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	106 %	70-140
Dibromofluoromethane	104 %	70-140
Toluene-d8	104 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Carbon-Influent

3J19010-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	37	ug/L	20	9.0	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: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Carbon-Effluent
3J19010-02 (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		101 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23
Units: ppmv

Date Sampled:	10/19/23	10/19/23	
Date Prepared:	10/20/23	10/20/23	
Date Analyzed:	10/20/23	10/20/23	
AA ID No:	3J19010-01	3J19010-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	7.9	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3J2001 - *** DEFAULT PREP ***</i>										
Blank (B3J2001-BLK1)				Prepared & Analyzed: 10/20/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
LCS (B3J2001-BS1)				Prepared & Analyzed: 10/20/23						
Benzene	18.2	0.50	ug/L	20.0		90.8	75-125			
Ethylbenzene	18.2	0.50	ug/L	20.0		90.9	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.8	2.0	ug/L	40.0		86.9	75-125			
Toluene	17.3	0.50	ug/L	20.0		86.4	75-125			
o-Xylene	17.2	0.50	ug/L	20.0		85.8	75-125			
m,p-Xylenes	34.9	1.0	ug/L	40.0		87.2	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B3J2001-BSD1)				Prepared & Analyzed: 10/20/23						
Benzene	19.5	0.50	ug/L	20.0		97.6	75-125	7.21	30	
Ethylbenzene	18.6	0.50	ug/L	20.0		93.2	75-125	2.55	30	
Methyl-tert-Butyl Ether (MTBE)	40.4	2.0	ug/L	40.0		101	75-125	15.1	30	
Toluene	18.2	0.50	ug/L	20.0		91.0	75-125	5.30	30	
o-Xylene	18.0	0.50	ug/L	20.0		90.0	75-125	4.83	30	
m,p-Xylenes	36.0	1.0	ug/L	40.0		90.1	75-125	3.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B3J2001-DUP1)				Source: 3J19010-01 Prepared & Analyzed: 10/20/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3J2001 - *** DEFAULT PREP ***</i>										
Duplicate (B3J2001-DUP1) Continued Source: 3J19010-01 Prepared & Analyzed: 10/20/23										
Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Blank (B3J2005-BLK1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>			
LCS (B3J2005-BS1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	520	20	ug/L	500		104	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>112</i>	<i>70-130</i>			
LCS Dup (B3J2005-BSD1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	490	20	ug/L	500		98.0	75-125	5.84	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-130</i>			
Duplicate (B3J2005-DUP1) Source: 3J19011-01 Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	338	20	ug/L		374			10.1	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>119</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Blank (B3J2005-BLK1) Prepared: 10/20/23 Analyzed: 10/26/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3J2005-DUP1) Source: 3J19011-01 Prepared & Analyzed: 10/20/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Duplicate (B3J2005-DUP1) Continued Source: 3J19011-01 Prepared & Analyzed: 10/20/23										
Total VOCs as Hexane	56.7	4.9	ppmv		62.5			9.67	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335291
Date Received: 10/19/23
Date Reported: 10/27/23

Special Notes

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

Viorel Vasile
Operations Manager



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

October 27, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335293 / 3J19012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/19/23 16:46 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23

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

VES After GAC-1	3J19012-01	Vapor	5	10/19/23 09:57	10/19/23 16:46
VES After GAC-2	3J19012-02	Vapor	5	10/19/23 10:00	10/19/23 16:46

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3J19012-01	Vapor	5	10/19/23 09:57	10/19/23 16:46
VES After GAC-2	3J19012-02	Vapor	5	10/19/23 10:00	10/19/23 16:46

VOCs in Vapor as Hexane

VES After GAC-1	3J19012-01	Vapor	5	10/19/23 09:57	10/19/23 16:46
VES After GAC-2	3J19012-02	Vapor	5	10/19/23 10:00	10/19/23 16:46

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES After GAC-1
3J19012-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	103 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES After GAC-2
3J19012-02 (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	106 %	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: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES After GAC-1

3J19012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	51	ug/L	20	12	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		101 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES After GAC-2
3J19012-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
Surrogates		%REC				%REC Limits
a,a,a-Trifluorotoluene		91.9 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23
Units: ppmv

Date Sampled:	10/19/23	10/19/23	
Date Prepared:	10/20/23	10/20/23	
Date Analyzed:	10/20/23	10/20/23	
AA ID No:	3J19012-01	3J19012-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	8.4	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3J2001 - *** DEFAULT PREP ***</i>										
Blank (B3J2001-BLK1)				Prepared & Analyzed: 10/20/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
LCS (B3J2001-BS1)				Prepared & Analyzed: 10/20/23						
Benzene	18.2	0.50	ug/L	20.0		90.8	75-125			
Ethylbenzene	18.2	0.50	ug/L	20.0		90.9	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.8	2.0	ug/L	40.0		86.9	75-125			
Toluene	17.3	0.50	ug/L	20.0		86.4	75-125			
o-Xylene	17.2	0.50	ug/L	20.0		85.8	75-125			
m,p-Xylenes	34.9	1.0	ug/L	40.0		87.2	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B3J2001-BSD1)				Prepared & Analyzed: 10/20/23						
Benzene	19.5	0.50	ug/L	20.0		97.6	75-125	7.21	30	
Ethylbenzene	18.6	0.50	ug/L	20.0		93.2	75-125	2.55	30	
Methyl-tert-Butyl Ether (MTBE)	40.4	2.0	ug/L	40.0		101	75-125	15.1	30	
Toluene	18.2	0.50	ug/L	20.0		91.0	75-125	5.30	30	
o-Xylene	18.0	0.50	ug/L	20.0		90.0	75-125	4.83	30	
m,p-Xylenes	36.0	1.0	ug/L	40.0		90.1	75-125	3.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B3J2001-DUP1)				Source: 3J19010-01 Prepared & Analyzed: 10/20/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3J2001 - *** DEFAULT PREP ***</i>										
Duplicate (B3J2001-DUP1) Continued Source: 3J19010-01 Prepared & Analyzed: 10/20/23										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Blank (B3J2005-BLK1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>			
LCS (B3J2005-BS1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	520	20	ug/L	500		104	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>112</i>	<i>70-130</i>			
LCS Dup (B3J2005-BSD1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	490	20	ug/L	500		98.0	75-125	5.84	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-130</i>			
Duplicate (B3J2005-DUP1) Source: 3J19011-01 Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	338	20	ug/L		374			10.1	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>119</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Blank (B3J2005-BLK1) Prepared: 10/20/23 Analyzed: 10/26/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3J2005-DUP1) Source: 3J19011-01 Prepared & Analyzed: 10/20/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Duplicate (B3J2005-DUP1) Continued Source: 3J19011-01 Prepared & Analyzed: 10/20/23										
Total VOCs as Hexane	56.7	4.9	ppmv		62.5			9.67	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335293
Date Received: 10/19/23
Date Reported: 10/27/23

Special Notes

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

Viorel Vasile
Operations Manager



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

December 01, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335353 / 3K15012**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/15/23 18:01 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23

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

VES After GAC-1	3K15012-01	Vapor	5	11/15/23 12:22	11/15/23 18:01
VES After GAC-2	3K15012-02	Vapor	5	11/15/23 12:23	11/15/23 18:01

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3K15012-01	Vapor	5	11/15/23 12:22	11/15/23 18:01
VES After GAC-2	3K15012-02	Vapor	5	11/15/23 12:23	11/15/23 18:01

VOCs in Vapor as Hexane

VES After GAC-1	3K15012-01	Vapor	5	11/15/23 12:22	11/15/23 18:01
VES After GAC-2	3K15012-02	Vapor	5	11/15/23 12:23	11/15/23 18:01

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES After GAC-1
3K15012-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	98.0 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	97.8 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES After GAC-2
3K15012-02 (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	98.2 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES After GAC-1

3K15012-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	73	ug/L	20	18	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		98.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES After GAC-2

3K15012-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	72	ug/L	20	18	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		101 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23
Units: ppmv

Date Sampled:	11/15/23	11/15/23	
Date Prepared:	11/17/23	11/17/23	
Date Analyzed:	11/17/23	11/17/23	
AA ID No:	3K15012-01	3K15012-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	12	12	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3K1708 - *** DEFAULT PREP ***</i>										
Blank (B3K1708-BLK1)				Prepared & Analyzed: 11/17/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
LCS (B3K1708-BS1)				Prepared & Analyzed: 11/17/23						
Benzene	23.0	0.50	ug/L	20.0		115	75-125			
Ethylbenzene	23.9	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	45.0	2.0	ug/L	40.0		113	75-125			
Toluene	23.7	0.50	ug/L	20.0		119	75-125			
o-Xylene	22.9	0.50	ug/L	20.0		114	75-125			
m,p-Xylenes	47.1	1.0	ug/L	40.0		118	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
LCS Dup (B3K1708-BSD1)				Prepared & Analyzed: 11/17/23						
Benzene	21.0	0.50	ug/L	20.0		105	75-125	9.07	30	
Ethylbenzene	21.1	0.50	ug/L	20.0		106	75-125	12.4	30	
Methyl-tert-Butyl Ether (MTBE)	47.5	2.0	ug/L	40.0		119	75-125	5.36	30	
Toluene	20.3	0.50	ug/L	20.0		101	75-125	15.8	30	
o-Xylene	20.4	0.50	ug/L	20.0		102	75-125	11.4	30	
m,p-Xylenes	41.6	1.0	ug/L	40.0		104	75-125	12.4	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.7</i>	<i>70-140</i>			
Duplicate (B3K1708-DUP1)				Source: 3K14013-01 Prepared & Analyzed: 11/17/23						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23

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

*Batch B3K1708 - *** DEFAULT PREP ****

Duplicate (B3K1708-DUP1) Continued Source: 3K14013-01 Prepared & Analyzed: 11/17/23

Benzene	43.2	0.25	ug/L		36.9			15.6	30	
Ethylbenzene	8.30	0.25	ug/L		5.90			33.8	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	6.60	0.25	ug/L		5.01			27.4	30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	4.84	0.50	ug/L		3.41			34.8	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.6		ug/L	50.0		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.9		ug/L	50.0		104	70-140			
<i>Surrogate: Toluene-d8</i>	50.1		ug/L	50.0		100	70-140			

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

*Batch B3K1701 - *** DEFAULT PREP ****

Blank (B3K1701-BLK1) Prepared & Analyzed: 11/17/23

Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.2		ug/L	50.0		102	70-130			

LCS (B3K1701-BS1) Prepared & Analyzed: 11/17/23

Gasoline Range Organics (GRO)	555	20	ug/L	500		111	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.1		ug/L	50.0		116	70-130			

LCS Dup (B3K1701-BSD1) Prepared & Analyzed: 11/17/23

Gasoline Range Organics (GRO)	544	20	ug/L	500		109	75-125	1.97	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.3		ug/L	50.0		105	70-130			

Duplicate (B3K1701-DUP1) Source: 3K15011-01 Prepared & Analyzed: 11/17/23

Gasoline Range Organics (GRO)	340	20	ug/L		280			19.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.4		ug/L	50.0		115	70-130			

VOCs in Vapor as Hexane - Quality Control

*Batch B3K1701 - *** DEFAULT PREP ****

Blank (B3K1701-BLK1) Prepared & Analyzed: 11/17/23

Total VOCs as Hexane	<4.9	4.9	ppmv							
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Duplicate (B3K1701-DUP1) Source: 3K15011-01 Prepared & Analyzed: 11/17/23

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3K1701 - *** DEFAULT PREP ***</i>										
Duplicate (B3K1701-DUP1) Continued Source: 3K15011-01 Prepared & Analyzed: 11/17/23										
Total VOCs as Hexane	56.8	4.9	ppmv		45.8			21.4	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335353
Date Received: 11/15/23
Date Reported: 12/01/23

Special Notes

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

Viorel Vasile
Operations Manager



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

December 01, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335354 / 3K15013**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/15/23 18:01 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23

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

VES Carbon-Influent	3K15013-01	Vapor	5	11/15/23 12:24	11/15/23 18:01
VES Carbon-Effluent	3K15013-02	Vapor	5	11/15/23 12:20	11/15/23 18:01

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3K15013-01	Vapor	5	11/15/23 12:24	11/15/23 18:01
VES Carbon-Effluent	3K15013-02	Vapor	5	11/15/23 12:20	11/15/23 18:01

VOCs in Vapor as Hexane

VES Carbon-Influent	3K15013-01	Vapor	5	11/15/23 12:24	11/15/23 18:01
VES Carbon-Effluent	3K15013-02	Vapor	5	11/15/23 12:20	11/15/23 18:01

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Carbon-Influent
3K15013-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	96.2 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Carbon-Effluent
3K15013-02 (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	98.2 %	70-140
Dibromofluoromethane	105 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Carbon-Influent
3K15013-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	63	ug/L	20	15	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		96.9 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Carbon-Effluent
3K15013-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	41	ug/L	20	10	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>			<u>%REC Limits</u>	
a,a,a-Trifluorotoluene		95.3 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23
Units: ppmv

Date Sampled:	11/15/23	11/15/23	
Date Prepared:	11/17/23	11/17/23	
Date Analyzed:	11/17/23	11/17/23	
AA ID No:	3K15013-01	3K15013-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	10	6.7	4.9
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3K1708 - *** DEFAULT PREP ***</i>										
Blank (B3K1708-BLK1)				Prepared & Analyzed: 11/17/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
LCS (B3K1708-BS1)				Prepared & Analyzed: 11/17/23						
Benzene	23.0	0.50	ug/L	20.0		115	75-125			
Ethylbenzene	23.9	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	45.0	2.0	ug/L	40.0		113	75-125			
Toluene	23.7	0.50	ug/L	20.0		119	75-125			
o-Xylene	22.9	0.50	ug/L	20.0		114	75-125			
m,p-Xylenes	47.1	1.0	ug/L	40.0		118	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
LCS Dup (B3K1708-BSD1)				Prepared & Analyzed: 11/17/23						
Benzene	21.0	0.50	ug/L	20.0		105	75-125	9.07	30	
Ethylbenzene	21.1	0.50	ug/L	20.0		106	75-125	12.4	30	
Methyl-tert-Butyl Ether (MTBE)	47.5	2.0	ug/L	40.0		119	75-125	5.36	30	
Toluene	20.3	0.50	ug/L	20.0		101	75-125	15.8	30	
o-Xylene	20.4	0.50	ug/L	20.0		102	75-125	11.4	30	
m,p-Xylenes	41.6	1.0	ug/L	40.0		104	75-125	12.4	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.7</i>	<i>70-140</i>			
Duplicate (B3K1708-DUP1)				Source: 3K14013-01 Prepared & Analyzed: 11/17/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3K1708 - *** DEFAULT PREP ***</i>										
Duplicate (B3K1708-DUP1) Continued Source: 3K14013-01 Prepared & Analyzed: 11/17/23										
Benzene	43.2	0.25	ug/L		36.9			15.6	30	
Ethylbenzene	8.30	0.25	ug/L		5.90			33.8	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	6.60	0.25	ug/L		5.01			27.4	30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	4.84	0.50	ug/L		3.41			34.8	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	50.6		ug/L	50.0		101	70-140			
<i>Surrogate: Dibromofluoromethane</i>	51.9		ug/L	50.0		104	70-140			
<i>Surrogate: Toluene-d8</i>	50.1		ug/L	50.0		100	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3K1701 - *** DEFAULT PREP ***</i>										
Blank (B3K1701-BLK1) Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	51.2		ug/L	50.0		102	70-130			
LCS (B3K1701-BS1) Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	555	20	ug/L	500		111	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	58.1		ug/L	50.0		116	70-130			
LCS Dup (B3K1701-BSD1) Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	544	20	ug/L	500		109	75-125	1.97	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	52.3		ug/L	50.0		105	70-130			
Duplicate (B3K1701-DUP1) Source: 3K15011-01 Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	340	20	ug/L		280			19.4	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	57.4		ug/L	50.0		115	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3K1701 - *** DEFAULT PREP ***</i>										
Blank (B3K1701-BLK1) Prepared & Analyzed: 11/17/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3K1701-DUP1) Source: 3K15011-01 Prepared & Analyzed: 11/17/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3K1701 - *** DEFAULT PREP ***</i>										
Duplicate (B3K1701-DUP1) Continued Source: 3K15011-01 Prepared & Analyzed: 11/17/23										
Total VOCs as Hexane	56.8	4.9	ppmv		45.8			21.4	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335354
Date Received: 11/15/23
Date Reported: 12/01/23

Special Notes

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

Viorel Vasile
Operations Manager



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California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 13, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335388 / 3L04030**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/04/23 16:55 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23

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

VES Carbon-Influent	3L04030-01	Vapor	5	12/04/23 13:48	12/04/23 16:55
VES Carbon-Effluent	3L04030-02	Vapor	5	12/04/23 13:45	12/04/23 16:55

VOCs Gasoline Range Organics Vapor

VES Carbon-Influent	3L04030-01	Vapor	5	12/04/23 13:48	12/04/23 16:55
VES Carbon-Effluent	3L04030-02	Vapor	5	12/04/23 13:45	12/04/23 16:55

VOCs in Vapor as Hexane

VES Carbon-Influent	3L04030-01	Vapor	5	12/04/23 13:48	12/04/23 16:55
VES Carbon-Effluent	3L04030-02	Vapor	5	12/04/23 13:45	12/04/23 16:55

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23
Sampled: 12/04/23
Prepared: 12/06/23
Analyzed: 12/06/23

VES Carbon-Influent
3L04030-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	91.8 %	70-140
Dibromofluoromethane	92.4 %	70-140
Toluene-d8	89.2 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23
Sampled: 12/04/23
Prepared: 12/06/23
Analyzed: 12/06/23

VES Carbon-Effluent
3L04030-02 (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	93.8 %	70-140
Dibromofluoromethane	94.6 %	70-140
Toluene-d8	90.3 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)

Project No: 091-NOR-001

Project Name: DFSP Norwalk VES AQMD

Matrix: Vapor

Dilution: 1

Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335388

Date Received: 12/04/23

Date Reported: 12/13/23

Sampled: 12/04/23

Prepared: 12/05/23

Analyzed: 12/05/23

VES Carbon-Influent

3L04030-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	83	ug/L	20	20	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		102 %				70-130

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23
Sampled: 12/04/23
Prepared: 12/05/23
Analyzed: 12/05/23

VES Carbon-Effluent

3L04030-02 (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		99.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23
Units: ppmv

Date Sampled:	12/04/23	12/04/23	
Date Prepared:	12/05/23	12/05/23	
Date Analyzed:	12/05/23	12/05/23	
AA ID No:	3L04030-01	3L04030-02	
Client ID No:	VES	VES	
	Carbon-Influent	Carbon-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	14	<4.9	4.9
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3L0623 - *** DEFAULT PREP ***</i>										
Blank (B3L0623-BLK1) Prepared & Analyzed: 12/06/23										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>42.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>84.9</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>95.4</i>	<i>70-140</i>			
LCS (B3L0623-BS1) Prepared & Analyzed: 12/06/23										
Benzene	17.6	0.50	ug/L	20.0		87.8	75-125			
Ethylbenzene	19.0	0.50	ug/L	20.0		95.2	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.8	2.0	ug/L	40.0		87.0	75-125			
Toluene	18.7	0.50	ug/L	20.0		93.7	75-125			
o-Xylene	20.2	0.50	ug/L	20.0		101	75-125			
m,p-Xylenes	41.1	1.0	ug/L	40.0		103	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.7</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>44.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.3</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.2</i>	<i>70-140</i>			
LCS Dup (B3L0623-BSD1) Prepared & Analyzed: 12/06/23										
Benzene	18.0	0.50	ug/L	20.0		90.2	75-125	2.64	30	
Ethylbenzene	18.7	0.50	ug/L	20.0		93.7	75-125	1.59	30	
Methyl-tert-Butyl Ether (MTBE)	34.3	2.0	ug/L	40.0		85.8	75-125	1.27	30	
Toluene	18.2	0.50	ug/L	20.0		91.0	75-125	2.92	30	
o-Xylene	19.9	0.50	ug/L	20.0		99.6	75-125	1.15	30	
m,p-Xylenes	38.2	1.0	ug/L	40.0		95.4	75-125	7.47	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.8</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.0</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.3</i>	<i>70-140</i>			
Duplicate (B3L0623-DUP1) Source: 3L04030-01 Prepared & Analyzed: 12/06/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23

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

Batch B3L0623 - *** DEFAULT PREP ***

Duplicate (B3L0623-DUP1) Continued Source: 3L04030-01 Prepared & Analyzed: 12/06/23

Benzene	<0.25	0.25	ug/L		<0.25				30	
Ethylbenzene	<0.25	0.25	ug/L		<0.25				30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L		<1.0				30	
Toluene	<0.25	0.25	ug/L		<0.25				30	
o-Xylene	<0.25	0.25	ug/L		<0.25				30	
m,p-Xylenes	<0.50	0.50	ug/L		<0.50				30	
Surrogate: 4-Bromofluorobenzene	46.0		ug/L	50.0		92.1	70-140			
Surrogate: Dibromofluoromethane	48.8		ug/L	50.0		97.5	70-140			
Surrogate: Toluene-d8	43.1		ug/L	50.0		86.1	70-140			

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

Batch B3L0523 - *** DEFAULT PREP ***

Blank (B3L0523-BLK1) Prepared & Analyzed: 12/05/23

Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	48.0		ug/L	50.0		96.0	70-130			

LCS (B3L0523-BS1) Prepared & Analyzed: 12/05/23

Gasoline Range Organics (GRO)	506	20	ug/L	500		101	75-125			
Surrogate: a,a,a-Trifluorotoluene	54.0		ug/L	50.0		108	70-130			

LCS Dup (B3L0523-BSD1) Prepared & Analyzed: 12/05/23

Gasoline Range Organics (GRO)	544	20	ug/L	500		109	75-125	7.29	30	
Surrogate: a,a,a-Trifluorotoluene	53.4		ug/L	50.0		107	70-130			

Duplicate (B3L0523-DUP1) Source: 3L04026-01 Prepared & Analyzed: 12/05/23

Gasoline Range Organics (GRO)	2690	40	ug/L		2820			4.72	30	
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/L	50.0		105	70-130			

VOCs in Vapor as Hexane - Quality Control

Batch B3L0523 - *** DEFAULT PREP ***

Blank (B3L0523-BLK1) Prepared & Analyzed: 12/05/23

Total VOCs as Hexane	<4.9	4.9	ppmv							
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Duplicate (B3L0523-DUP1) Source: 3L04026-01 Prepared & Analyzed: 12/05/23

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3L0523 - *** DEFAULT PREP ***</i>										
Duplicate (B3L0523-DUP1) Continued Source: 3L04026-01 Prepared & Analyzed: 12/05/23										
Total VOCs as Hexane	441	9.8	ppmv		462			4.72	30	

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335388
Date Received: 12/04/23
Date Reported: 12/13/23

Special Notes

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

Viorel Vasile
Operations Manager



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

December 13, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335389 / 3L04031**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/04/23 16:55 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23

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

VES After GAC-1	3L04031-01	Vapor	5	12/04/23 13:47	12/04/23 16:55
VES After GAC-2	3L04031-02	Vapor	5	12/04/23 13:46	12/04/23 16:55

VOCs Gasoline Range Organics Vapor

VES After GAC-1	3L04031-01	Vapor	5	12/04/23 13:47	12/04/23 16:55
VES After GAC-2	3L04031-02	Vapor	5	12/04/23 13:46	12/04/23 16:55

VOCs in Vapor as Hexane

VES After GAC-1	3L04031-01	Vapor	5	12/04/23 13:47	12/04/23 16:55
VES After GAC-2	3L04031-02	Vapor	5	12/04/23 13:46	12/04/23 16:55

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23
Sampled: 12/04/23
Prepared: 12/06/23
Analyzed: 12/06/23

VES After GAC-1
3L04031-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	95.6 %	70-140
Dibromofluoromethane	93.9 %	70-140
Toluene-d8	91.2 %	70-140

Viorel Vasile
 Operations Manager

**LABORATORY ANALYSIS RESULTS****Client:** The Source Group, Inc. (SH)**Project No:** 091-NOR-001**Project Name:** DFSP Norwalk VES AQMD**Matrix:** Vapor**Dilution:** 0.5**Method:** VOCs BTEX/MTBE Vapor by GC/MS 8260M**AA Project No:** A5335389**Date Received:** 12/04/23**Date Reported:** 12/13/23**Sampled:** 12/04/23**Prepared:** 12/06/23**Analyzed:** 12/06/23**VES After GAC-2****3L04031-02 (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

93.5 %

70-140

Dibromofluoromethane

97.5 %

70-140

Toluene-d8

86.7 %

70-140

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23
Sampled: 12/04/23
Prepared: 12/05/23
Analyzed: 12/05/23

VES After GAC-1

3L04031-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	<20	ug/L	20	<4.9	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		97.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23
Sampled: 12/04/23
Prepared: 12/05/23
Analyzed: 12/05/23

VES After GAC-2

3L04031-02 (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		101 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23
Units: ppmv

Date Sampled:	12/04/23	12/04/23	
Date Prepared:	12/05/23	12/05/23	
Date Analyzed:	12/05/23	12/05/23	
AA ID No:	3L04031-01	3L04031-02	
Client ID No:	VES After GAC-1	VES After GAC-2	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	<4.9	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3L0623 - *** DEFAULT PREP ***</i>										
Blank (B3L0623-BLK1) Prepared & Analyzed: 12/06/23										
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	48.0		ug/L	50.0		96.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	42.5		ug/L	50.0		84.9	70-140			
<i>Surrogate: Toluene-d8</i>	47.7		ug/L	50.0		95.4	70-140			
LCS (B3L0623-BS1) Prepared & Analyzed: 12/06/23										
Benzene	17.6	0.50	ug/L	20.0		87.8	75-125			
Ethylbenzene	19.0	0.50	ug/L	20.0		95.2	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.8	2.0	ug/L	40.0		87.0	75-125			
Toluene	18.7	0.50	ug/L	20.0		93.7	75-125			
o-Xylene	20.2	0.50	ug/L	20.0		101	75-125			
m,p-Xylenes	41.1	1.0	ug/L	40.0		103	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.4		ug/L	50.0		98.7	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.7		ug/L	50.0		89.3	70-140			
<i>Surrogate: Toluene-d8</i>	46.6		ug/L	50.0		93.2	70-140			
LCS Dup (B3L0623-BSD1) Prepared & Analyzed: 12/06/23										
Benzene	18.0	0.50	ug/L	20.0		90.2	75-125	2.64	30	
Ethylbenzene	18.7	0.50	ug/L	20.0		93.7	75-125	1.59	30	
Methyl-tert-Butyl Ether (MTBE)	34.3	2.0	ug/L	40.0		85.8	75-125	1.27	30	
Toluene	18.2	0.50	ug/L	20.0		91.0	75-125	2.92	30	
o-Xylene	19.9	0.50	ug/L	20.0		99.6	75-125	1.15	30	
m,p-Xylenes	38.2	1.0	ug/L	40.0		95.4	75-125	7.47	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	48.4		ug/L	50.0		96.8	70-140			
<i>Surrogate: Dibromofluoromethane</i>	46.0		ug/L	50.0		92.0	70-140			
<i>Surrogate: Toluene-d8</i>	45.1		ug/L	50.0		90.3	70-140			
Duplicate (B3L0623-DUP1) Source: 3L04030-01 Prepared & Analyzed: 12/06/23										

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3L0623 - *** DEFAULT PREP ***</i>										
Duplicate (B3L0623-DUP1) Continued Source: 3L04030-01 Prepared & Analyzed: 12/06/23										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>46.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.1</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.5</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>43.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>86.1</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3L0523 - *** DEFAULT PREP ***</i>										
Blank (B3L0523-BLK1) Prepared & Analyzed: 12/05/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>48.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>96.0</i>	<i>70-130</i>			
LCS (B3L0523-BS1) Prepared & Analyzed: 12/05/23										
Gasoline Range Organics (GRO)	506	20	ug/L	500		101	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>54.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-130</i>			
LCS Dup (B3L0523-BSD1) Prepared & Analyzed: 12/05/23										
Gasoline Range Organics (GRO)	544	20	ug/L	500		109	75-125	7.29	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>			
Duplicate (B3L0523-DUP1) Source: 3L04026-01 Prepared & Analyzed: 12/05/23										
Gasoline Range Organics (GRO)	2690	40	ug/L		2820			4.72	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>52.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>105</i>	<i>70-130</i>			

VOCs in Vapor as Hexane - Quality Control*Batch B3L0523 - *** DEFAULT PREP ******Blank (B3L0523-BLK1)**

Prepared & Analyzed: 12/05/23

Total VOCs as Hexane <4.9 4.9 ppmv

Duplicate (B3L0523-DUP1)

Source: 3L04026-01 Prepared & Analyzed: 12/05/23

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3L0523 - *** DEFAULT PREP ***</i>										
Duplicate (B3L0523-DUP1) Continued Source: 3L04026-01 Prepared & Analyzed: 12/05/23										
Total VOCs as Hexane	441	9.8	ppmv		462			4.72	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335389
Date Received: 12/04/23
Date Reported: 12/13/23

Special Notes

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

Viorel Vasile
Operations Manager



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

October 27, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335292 / 3J19011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 10/19/23 16:46 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23

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

VES Thermox-Influent	3J19011-01	Vapor	5	10/19/23 10:20	10/19/23 16:46
VES Thermox-Effluent	3J19011-02	Vapor	5	10/19/23 10:30	10/19/23 16:46

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3J19011-01	Vapor	5	10/19/23 10:20	10/19/23 16:46
VES Thermox-Effluent	3J19011-02	Vapor	5	10/19/23 10:30	10/19/23 16:46

VOCs in Vapor as Hexane

VES Thermox-Influent	3J19011-01	Vapor	5	10/19/23 10:20	10/19/23 16:46
VES Thermox-Effluent	3J19011-02	Vapor	5	10/19/23 10:30	10/19/23 16:46

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Thermax-Influent
3J19011-01 (Vapor)

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

<u>Surrogates</u>	<u>%REC</u>	<u>%REC Limits</u>
4-Bromofluorobenzene	106 %	70-140
Dibromofluoromethane	107 %	70-140
Toluene-d8	99.7 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Thermax-Effluent
3J19011-02 (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	110 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Thermax-Influent

3J19011-01 (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		115 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23
Sampled: 10/19/23
Prepared: 10/20/23
Analyzed: 10/20/23

VES Thermax-Effluent
3J19011-02 (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		98.9 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23
Units: ppmv

Date Sampled:	10/19/23	10/19/23	
Date Prepared:	10/20/23	10/20/23	
Date Analyzed:	10/20/23	10/20/23	
AA ID No:	3J19011-01	3J19011-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	62	<4.9	4.9
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Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3J2001 - *** DEFAULT PREP ***</i>										
Blank (B3J2001-BLK1)				Prepared & Analyzed: 10/20/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>110</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
LCS (B3J2001-BS1)				Prepared & Analyzed: 10/20/23						
Benzene	18.2	0.50	ug/L	20.0		90.8	75-125			
Ethylbenzene	18.2	0.50	ug/L	20.0		90.9	75-125			
Methyl-tert-Butyl Ether (MTBE)	34.8	2.0	ug/L	40.0		86.9	75-125			
Toluene	17.3	0.50	ug/L	20.0		86.4	75-125			
o-Xylene	17.2	0.50	ug/L	20.0		85.8	75-125			
m,p-Xylenes	34.9	1.0	ug/L	40.0		87.2	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-140</i>			
LCS Dup (B3J2001-BSD1)				Prepared & Analyzed: 10/20/23						
Benzene	19.5	0.50	ug/L	20.0		97.6	75-125	7.21	30	
Ethylbenzene	18.6	0.50	ug/L	20.0		93.2	75-125	2.55	30	
Methyl-tert-Butyl Ether (MTBE)	40.4	2.0	ug/L	40.0		101	75-125	15.1	30	
Toluene	18.2	0.50	ug/L	20.0		91.0	75-125	5.30	30	
o-Xylene	18.0	0.50	ug/L	20.0		90.0	75-125	4.83	30	
m,p-Xylenes	36.0	1.0	ug/L	40.0		90.1	75-125	3.19	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>106</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>107</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>70-140</i>			
Duplicate (B3J2001-DUP1)				Source: 3J19010-01 Prepared & Analyzed: 10/20/23						

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3J2001 - *** DEFAULT PREP ***</i>										
Duplicate (B3J2001-DUP1) Continued Source: 3J19010-01 Prepared & Analyzed: 10/20/23										
Benzene	<0.25	0.25	ug/L						30	
Ethylbenzene	<0.25	0.25	ug/L						30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	<0.25	0.25	ug/L						30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	<0.50	0.50	ug/L						30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>104</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>102</i>	<i>70-140</i>			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Blank (B3J2005-BLK1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>			
LCS (B3J2005-BS1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	520	20	ug/L	500		104	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>55.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>112</i>	<i>70-130</i>			
LCS Dup (B3J2005-BSD1) Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	490	20	ug/L	500		98.0	75-125	5.84	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>53.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>108</i>	<i>70-130</i>			
Duplicate (B3J2005-DUP1) Source: 3J19011-01 Prepared & Analyzed: 10/20/23										
Gasoline Range Organics (GRO)	338	20	ug/L		374			10.1	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>59.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>119</i>	<i>70-130</i>			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Blank (B3J2005-BLK1) Prepared: 10/20/23 Analyzed: 10/26/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3J2005-DUP1) Source: 3J19011-01 Prepared & Analyzed: 10/20/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3J2005 - *** DEFAULT PREP ***</i>										
Duplicate (B3J2005-DUP1) Continued Source: 3J19011-01 Prepared & Analyzed: 10/20/23										
Total VOCs as Hexane	56.7	4.9	ppmv		62.5			9.67	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335292
Date Received: 10/19/23
Date Reported: 10/27/23

Special Notes

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

Viorel Vasile
Operations Manager



9765 Eton Avenue
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December 01, 2023

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335352 / 3K15011**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 11/15/23 18:01 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23

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

VES Thermox-Influent	3K15011-01	Vapor	5	11/15/23 12:49	11/15/23 18:01
VES Thermox-Effluent	3K15011-02	Vapor	5	11/15/23 12:43	11/15/23 18:01

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3K15011-01	Vapor	5	11/15/23 12:49	11/15/23 18:01
VES Thermox-Effluent	3K15011-02	Vapor	5	11/15/23 12:43	11/15/23 18:01

VOCs in Vapor as Hexane

VES Thermox-Influent	3K15011-01	Vapor	5	11/15/23 12:49	11/15/23 18:01
VES Thermox-Effluent	3K15011-02	Vapor	5	11/15/23 12:43	11/15/23 18:01

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Thermax-Influent
3K15011-01 (Vapor)

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

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	96.8 %	70-140
Dibromofluoromethane	105 %	70-140
Toluene-d8	99.8 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Thermax-Effluent
3K15011-02 (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	97.7 %	70-140
Dibromofluoromethane	100 %	70-140
Toluene-d8	101 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Thermax-Influent

3K15011-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	280	ug/L	20	68	ppmv	4.9
<u>Surrogates</u>		<u>%REC</u>				<u>%REC Limits</u>
a,a,a-Trifluorotoluene		107 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23
Sampled: 11/15/23
Prepared: 11/17/23
Analyzed: 11/17/23

VES Thermax-Effluent
3K15011-02 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	130	ug/L	20	32	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		97.1 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23
Units: ppmv

Date Sampled:	11/15/23	11/15/23	
Date Prepared:	11/17/23	11/17/23	
Date Analyzed:	11/17/23	11/17/23	
AA ID No:	3K15011-01	3K15011-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	46	21	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3K1708 - *** DEFAULT PREP ***</i>										
Blank (B3K1708-BLK1)				Prepared & Analyzed: 11/17/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.4</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
LCS (B3K1708-BS1)				Prepared & Analyzed: 11/17/23						
Benzene	23.0	0.50	ug/L	20.0		115	75-125			
Ethylbenzene	23.9	0.50	ug/L	20.0		120	75-125			
Methyl-tert-Butyl Ether (MTBE)	45.0	2.0	ug/L	40.0		113	75-125			
Toluene	23.7	0.50	ug/L	20.0		119	75-125			
o-Xylene	22.9	0.50	ug/L	20.0		114	75-125			
m,p-Xylenes	47.1	1.0	ug/L	40.0		118	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>97.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>94.7</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
LCS Dup (B3K1708-BSD1)				Prepared & Analyzed: 11/17/23						
Benzene	21.0	0.50	ug/L	20.0		105	75-125	9.07	30	
Ethylbenzene	21.1	0.50	ug/L	20.0		106	75-125	12.4	30	
Methyl-tert-Butyl Ether (MTBE)	47.5	2.0	ug/L	40.0		119	75-125	5.36	30	
Toluene	20.3	0.50	ug/L	20.0		101	75-125	15.8	30	
o-Xylene	20.4	0.50	ug/L	20.0		102	75-125	11.4	30	
m,p-Xylenes	41.6	1.0	ug/L	40.0		104	75-125	12.4	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.7</i>		<i>ug/L</i>	<i>50.0</i>		<i>99.3</i>	<i>70-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.2</i>		<i>ug/L</i>	<i>50.0</i>		<i>100</i>	<i>70-140</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.3</i>		<i>ug/L</i>	<i>50.0</i>		<i>98.7</i>	<i>70-140</i>			
Duplicate (B3K1708-DUP1)				Source: 3K14013-01 Prepared & Analyzed: 11/17/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3K1708 - *** DEFAULT PREP ***</i>										
Duplicate (B3K1708-DUP1) Continued Source: 3K14013-01 Prepared & Analyzed: 11/17/23										
Benzene	43.2	0.25	ug/L		36.9			15.6	30	
Ethylbenzene	8.30	0.25	ug/L		5.90			33.8	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	6.60	0.25	ug/L		5.01			27.4	30	
o-Xylene	<0.25	0.25	ug/L						30	
m,p-Xylenes	4.84	0.50	ug/L		3.41			34.8	30	
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.0		101	70-140			
Surrogate: Dibromofluoromethane	51.9		ug/L	50.0		104	70-140			
Surrogate: Toluene-d8	50.1		ug/L	50.0		100	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3K1701 - *** DEFAULT PREP ***</i>										
Blank (B3K1701-BLK1) Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
Surrogate: a,a,a-Trifluorotoluene	51.2		ug/L	50.0		102	70-130			
LCS (B3K1701-BS1) Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	555	20	ug/L	500		111	75-125			
Surrogate: a,a,a-Trifluorotoluene	58.1		ug/L	50.0		116	70-130			
LCS Dup (B3K1701-BSD1) Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	544	20	ug/L	500		109	75-125	1.97	30	
Surrogate: a,a,a-Trifluorotoluene	52.3		ug/L	50.0		105	70-130			
Duplicate (B3K1701-DUP1) Source: 3K15011-01 Prepared & Analyzed: 11/17/23										
Gasoline Range Organics (GRO)	340	20	ug/L		280			19.4	30	
Surrogate: a,a,a-Trifluorotoluene	57.4		ug/L	50.0		115	70-130			

VOCs in Vapor as Hexane - Quality Control*Batch B3K1701 - *** DEFAULT PREP ******Blank (B3K1701-BLK1)**

Prepared & Analyzed: 11/17/23

Total VOCs as Hexane <4.9 4.9 ppmv

Duplicate (B3K1701-DUP1)

Source: 3K15011-01 Prepared & Analyzed: 11/17/23

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3K1701 - *** DEFAULT PREP ***</i>										
Duplicate (B3K1701-DUP1) Continued Source: 3K15011-01 Prepared & Analyzed: 11/17/23										
Total VOCs as Hexane	56.8	4.9	ppmv		45.8			21.4	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335352
Date Received: 11/15/23
Date Reported: 12/01/23

Special Notes

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

Viorel Vasile
Operations Manager



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

January 11, 2024

Neil Irish

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

**Re : DFSP Norwalk VES AQMD / 091-NOR-001
A5335410 / 3L11027**

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/11/23 16:54 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24

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

VES Thermox-Influent	3L11027-01	Vapor	5	12/11/23 13:40	12/11/23 16:54
VES Thermox-Effluent	3L11027-02	Vapor	5	12/11/23 13:45	12/11/23 16:54

VOCs Gasoline Range Organics Vapor

VES Thermox-Influent	3L11027-01	Vapor	5	12/11/23 13:40	12/11/23 16:54
VES Thermox-Effluent	3L11027-02	Vapor	5	12/11/23 13:45	12/11/23 16:54

VOCs in Vapor as Hexane

VES Thermox-Influent	3L11027-01	Vapor	5	12/11/23 13:40	12/11/23 16:54
VES Thermox-Effluent	3L11027-02	Vapor	5	12/11/23 13:45	12/11/23 16:54

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24
Sampled: 12/11/23
Prepared: 12/12/23
Analyzed: 12/12/23

VES Thermax-Influent
3L11027-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Benzene	0.26	ug/L	0.50	0.081	ppmv	0.16
Ethylbenzene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
Methyl-tert-Butyl Ether (MTBE)	<1.0	ug/L	2.0	<0.28	ppmv	0.55
Toluene	<0.25	ug/L	0.50	<0.066	ppmv	0.13
o-Xylene	<0.25	ug/L	0.50	<0.058	ppmv	0.12
m,p-Xylenes	<0.50	ug/L	1.0	<0.12	ppmv	0.23

Surrogates	%REC	%REC Limits
4-Bromofluorobenzene	105 %	70-140
Dibromofluoromethane	96.1 %	70-140
Toluene-d8	90.2 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 0.5
Method: VOCs BTEX/MTBE Vapor by GC/MS 8260M

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24
Sampled: 12/11/23
Prepared: 12/12/23
Analyzed: 12/12/23

VES Thermax-Effluent
3L11027-02 (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	95.2 %	70-140
Dibromofluoromethane	99.0 %	70-140
Toluene-d8	86.9 %	70-140

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24
Sampled: 12/11/23
Prepared: 12/13/23
Analyzed: 12/13/23

VES Thermax-Influent
3L11027-01 (Vapor)

Analyte	Result	(ug/L)	MRL	Result	(ppmv)	MRL
Gasoline Range Organics (GRO)	290	ug/L	20	71	ppmv	4.9
Surrogates		%REC			%REC Limits	
a,a,a-Trifluorotoluene		99.9 %			70-130	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Matrix: Vapor
Dilution: 1
Method: Gasoline Range Organics in Vapor by GC/FID

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24
Sampled: 12/11/23
Prepared: 12/13/23
Analyzed: 12/13/23

VES Thermax-Effluent
3L11027-02 (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		87.5 %				70-130

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD
Method: VOCs in Vapor as Hexane

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24
Units: ppmv

Date Sampled:	12/11/23	12/11/23	
Date Prepared:	12/13/23	12/13/23	
Date Analyzed:	12/13/23	12/13/23	
AA ID No:	3L11027-01	3L11027-02	
Client ID No:	VES	VES	
	Thermox-Influent	Thermox-Effluent	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs in Vapor as Hexane (EPA 8015M)

Total VOCs as Hexane	47	<4.9	4.9
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Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3L1226 - *** DEFAULT PREP ***</i>										
Blank (B3L1226-BLK1)				Prepared & Analyzed: 12/12/23						
Benzene	<0.50	0.50	ug/L							
Ethylbenzene	<0.50	0.50	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<2.0	2.0	ug/L							
Toluene	<0.50	0.50	ug/L							
o-Xylene	<0.50	0.50	ug/L							
m,p-Xylenes	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	47.2		ug/L	50.0		94.5	70-140			
<i>Surrogate: Dibromofluoromethane</i>	44.3		ug/L	50.0		88.6	70-140			
<i>Surrogate: Toluene-d8</i>	47.0		ug/L	50.0		94.0	70-140			
LCS (B3L1226-BS1)				Prepared & Analyzed: 12/12/23						
Benzene	20.3	0.50	ug/L	20.0		101	75-125			
Ethylbenzene	18.9	0.50	ug/L	20.0		94.6	75-125			
Methyl-tert-Butyl Ether (MTBE)	39.1	2.0	ug/L	40.0		97.8	75-125			
Toluene	18.5	0.50	ug/L	20.0		92.7	75-125			
o-Xylene	20.6	0.50	ug/L	20.0		103	75-125			
m,p-Xylenes	40.2	1.0	ug/L	40.0		100	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	46.6		ug/L	50.0		93.1	70-140			
<i>Surrogate: Dibromofluoromethane</i>	48.9		ug/L	50.0		97.8	70-140			
<i>Surrogate: Toluene-d8</i>	43.5		ug/L	50.0		87.0	70-140			
LCS Dup (B3L1226-BSD1)				Prepared & Analyzed: 12/12/23						
Benzene	19.0	0.50	ug/L	20.0		94.8	75-125	6.58	30	
Ethylbenzene	17.6	0.50	ug/L	20.0		88.1	75-125	7.17	30	
Methyl-tert-Butyl Ether (MTBE)	36.3	2.0	ug/L	40.0		90.7	75-125	7.53	30	
Toluene	16.8	0.50	ug/L	20.0		83.8	75-125	10.1	30	
o-Xylene	19.7	0.50	ug/L	20.0		98.4	75-125	4.76	30	
m,p-Xylenes	38.0	1.0	ug/L	40.0		95.0	75-125	5.55	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	47.0		ug/L	50.0		93.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	50.9		ug/L	50.0		102	70-140			
<i>Surrogate: Toluene-d8</i>	42.3		ug/L	50.0		84.6	70-140			
Duplicate (B3L1226-DUP1)				Source: 3L11019-01 Prepared & Analyzed: 12/12/23						

Viorel Vasile
Operations Manager

**LABORATORY ANALYSIS RESULTS**

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs BTEX/MTBE Vapor by GC/MS 8260M - Quality Control										
<i>Batch B3L1226 - *** DEFAULT PREP ***</i>										
Duplicate (B3L1226-DUP1) Continued Source: 3L11019-01 Prepared & Analyzed: 12/12/23										
Benzene	1.22	0.25	ug/L		0.685			55.8	30	
Ethylbenzene	2.44	0.25	ug/L		1.41			53.3	30	
Methyl-tert-Butyl Ether (MTBE)	<1.0	1.0	ug/L						30	
Toluene	1.10	0.25	ug/L		0.650			51.0	30	
o-Xylene	2.99	0.25	ug/L		1.46			69.1	30	
m,p-Xylenes	6.30	0.50	ug/L		3.15			66.7	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	46.0		ug/L	50.0		91.9	70-140			
<i>Surrogate: Dibromofluoromethane</i>	56.4		ug/L	50.0		113	70-140			
<i>Surrogate: Toluene-d8</i>	39.2		ug/L	50.0		78.5	70-140			
Gasoline Range Organics in Vapor by GC/FID - Quality Control										
<i>Batch B3L1324 - *** DEFAULT PREP ***</i>										
Blank (B3L1324-BLK1) Prepared & Analyzed: 12/13/23										
Gasoline Range Organics (GRO)	<20	20	ug/L							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	50.3		ug/L	50.0		101	70-130			
LCS (B3L1324-BS1) Prepared & Analyzed: 12/13/23										
Gasoline Range Organics (GRO)	481	20	ug/L	500		96.3	75-125			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	48.7		ug/L	50.0		97.4	70-130			
LCS Dup (B3L1324-BSD1) Prepared & Analyzed: 12/13/23										
Gasoline Range Organics (GRO)	576	20	ug/L	500		115	75-125	17.9	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	54.4		ug/L	50.0		109	70-130			
Duplicate (B3L1324-DUP1) Source: 3L12027-01 Prepared & Analyzed: 12/13/23										
Gasoline Range Organics (GRO)	2870	20	ug/L		1970			37.2	30	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	62.1		ug/L	50.0		124	70-130			
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3L1324 - *** DEFAULT PREP ***</i>										
Blank (B3L1324-BLK1) Prepared & Analyzed: 12/13/23										
Total VOCs as Hexane	<4.9	4.9	ppmv							
Duplicate (B3L1324-DUP1) Source: 3L12027-01 Prepared & Analyzed: 12/13/23										

Viorel Vasile
Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor as Hexane - Quality Control										
<i>Batch B3L1324 - *** DEFAULT PREP ***</i>										
Duplicate (B3L1324-DUP1) Continued Source: 3L12027-01 Prepared & Analyzed: 12/13/23										
Total VOCs as Hexane	471	4.9	ppmv		323			37.4	30	

Viorel Vasile
 Operations Manager



LABORATORY ANALYSIS RESULTS

Client: The Source Group, Inc. (SH)
Project No: 091-NOR-001
Project Name: DFSP Norwalk VES AQMD

AA Project No: A5335410
Date Received: 12/11/23
Date Reported: 01/11/24

Special Notes

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

Viorel Vasile
Operations Manager



ENTHALPY
ANALYTICAL

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

enthalpy.com

Lab Job Number: 494650
Report Level: II
Report Date: 11/08/2023

Analytical Report *prepared for:*

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

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

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

Sample Summary

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

Lab Job #: 494650
Project No: PERMIT #22453_WW
Location: WW
Date Received: 10/25/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_10-25-23	494650-001	10/25/23 10:07	Water
AFTER B-1_10-25-23	494650-002	10/25/23 10:05	Water
EFFLUENT_10-25-23	494650-003	10/25/23 09:32	Water

Case Narrative

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

Lab Job Number: 494650
Project No: PERMIT #22453_WW
Location: WW
Date Received: 10/25/23

This data package contains sample and QC results for three water samples, requested for the above referenced project on 10/25/23. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 624.1):

- Low response was observed for 2-chloroethylvinylether in the CCV analyzed 10/30/23 11:37; this analyte met minimum response criteria, and affected data was qualified with "b".
- SURGE TANK_10-25-23 (lab # 494650-001) and EFFLUENT_10-25-23 (lab # 494650-003) had pH greater than 2.
- No other analytical problems were encountered.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Apey Project: WW
 Date Received: 10/25/23 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 12.4 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 0-7 #2: _____ #3: _____ #4: _____

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

Section 5 Explanations/Comments

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

Completed By: _____ Date: 10/25/23

Analysis Results for 494650

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

Lab Job #: 494650
Project No: PERMIT #22453_WW
Location: WW
Date Received: 10/25/23

Sample ID: SURGE TANK_10-25-23

Lab ID: 494650-001

Collected: 10/25/23 10:07

Matrix: Water

494650-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7									
Prep Method: EPA 3015A									
Arsenic	0.049		mg/L	0.010	1	325226	10/25/23	10/26/23	SBW
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	EJB
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	EJB
tert-Butyl Alcohol (TBA)	16		ug/L	10	1	325451	10/30/23	10/30/23	EJB
m,p-Xylenes	ND		ug/L	10	1	325451	10/30/23	10/30/23	EJB
o-Xylene	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB
Chloromethane	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	EJB
Vinyl Chloride	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Bromomethane	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	EJB
Chloroethane	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	EJB
1,1-Dichloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Methylene Chloride	ND		ug/L	10	1	325451	10/30/23	10/30/23	EJB
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
1,1-Dichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Chloroform	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
1,1,1-Trichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Carbon Tetrachloride	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
1,2-Dichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Benzene	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB
Trichloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
1,2-Dichloropropane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Bromodichloromethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Toluene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
1,1,2-Trichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Tetrachloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Dibromochloromethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Chlorobenzene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
Ethylbenzene	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB
Bromoform	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	EJB

Analysis Results for 494650

494650-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	EJB
2-Chloroethylvinylether	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB
Xylene (total)	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	EJB

Surrogates	Limits								
Dibromofluoromethane	102%		%REC	70-130	1	325451	10/30/23	10/30/23	EJB
1,2-Dichloroethane-d4	114%		%REC	70-130	1	325451	10/30/23	10/30/23	EJB
Toluene-d8	99%		%REC	70-130	1	325451	10/30/23	10/30/23	EJB
Bromofluorobenzene	97%		%REC	70-130	1	325451	10/30/23	10/30/23	EJB

Method: EPA 8015B
 Prep Method: EPA 5030B

TPH Gasoline	ND		ug/L	50	1	325268	10/26/23	10/26/23	SXR
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Surrogates	Limits								
Bromofluorobenzene (FID)	101%		%REC	60-140	1	325268	10/26/23	10/26/23	SXR

Method: EPA 8015B
 Prep Method: EPA 3510C

Diesel C10-C28	0.59		mg/L	0.094	0.94	325248	10/26/23	10/27/23	SME
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Surrogates	Limits								
n-Triacontane	77%		%REC	35-130	0.94	325248	10/26/23	10/27/23	SME

Sample ID: AFTER B-1_10-25-23

Lab ID: 494650-002

Collected: 10/25/23 10:05

Matrix: Water

494650-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Arsenic	ND		mg/L	0.010	1	325226	10/25/23	10/26/23	SBW

Method: EPA 200.7
 Prep Method: EPA 3015A

Analysis Results for 494650

Sample ID: EFFLUENT_10-25-23	Lab ID: 494650-003	Collected: 10/25/23 09:32
Matrix: Water		

494650-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7									
Prep Method: EPA 3015A									
Arsenic	0.088		mg/L	0.010	1	325226	10/25/23	10/26/23	SBW
Method: EPA 624.1									
Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	YAH
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	YAH
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	325451	10/30/23	10/30/23	YAH
m,p-Xylenes	ND		ug/L	10	1	325451	10/30/23	10/30/23	YAH
o-Xylene	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Chloromethane	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	YAH
Vinyl Chloride	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Bromomethane	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	YAH
Chloroethane	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	YAH
1,1-Dichloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Methylene Chloride	ND		ug/L	10	1	325451	10/30/23	10/30/23	YAH
trans-1,2-Dichloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
1,1-Dichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Chloroform	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
1,1,1-Trichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Carbon Tetrachloride	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
1,2-Dichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Benzene	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Trichloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
1,2-Dichloropropane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Bromodichloromethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
cis-1,3-Dichloropropene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Toluene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
trans-1,3-Dichloropropene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
1,1,2-Trichloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Tetrachloroethene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Dibromochloromethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Chlorobenzene	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
Ethylbenzene	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Bromoform	ND		ug/L	1.0	1	325451	10/30/23	10/30/23	YAH
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	1	325451	10/30/23	10/30/23	YAH
2-Chloroethylvinylether	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Xylene (total)	ND		ug/L	5.0	1	325451	10/30/23	10/30/23	YAH
Surrogates				Limits					
Dibromofluoromethane	97%		%REC	70-130	1	325451	10/30/23	10/30/23	YAH

Analysis Results for 494650

494650-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dichloroethane-d4	112%		%REC	70-130	1	325451	10/30/23	10/30/23	YAH
Toluene-d8	101%		%REC	70-130	1	325451	10/30/23	10/30/23	YAH
Bromofluorobenzene	100%		%REC	70-130	1	325451	10/30/23	10/30/23	YAH

Method: EPA 8015B

Prep Method: EPA 5030B

TPH Gasoline	ND		ug/L	50	1	325268	10/27/23	10/27/23	SXR
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Surrogates

Limits

Bromofluorobenzene (FID)	98%		%REC	60-140	1	325268	10/27/23	10/27/23	SXR
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Method: EPA 8015B

Prep Method: EPA 3510C

Diesel C10-C28	ND		mg/L	0.095	0.95	325248	10/26/23	10/27/23	SME
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Surrogates

Limits

n-Triacontane	75%		%REC	35-130	0.95	325248	10/26/23	10/27/23	SME
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ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1102710	Batch: 325226
Matrix: Water	Method: EPA 200.7	Prep Method: EPA 3015A

QC1102710 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Arsenic	ND		mg/L	0.010	10/25/23	10/26/23

Type: Lab Control Sample	Lab ID: QC1102711	Batch: 325226
Matrix: Water	Method: EPA 200.7	Prep Method: EPA 3015A

QC1102711 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	0.4000	0.4000	mg/L	100%		85-115

Type: Matrix Spike	Lab ID: QC1102712	Batch: 325226
Matrix (Source ID): Water (494629-001)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1102712 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	0.3994	0.006999	0.4000	mg/L	98%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1102713	Batch: 325226
Matrix (Source ID): Water (494629-001)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1102713 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	Lim	DF
Arsenic	0.3976	0.006999	0.4000	mg/L	98%		75-125	0	20	1

Batch QC

Type: Lab Control Sample	Lab ID: QC1103511	Batch: 325451
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1103511 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	40.99	50.00	ug/L	82%		70-130
Isopropyl Ether (DIPE)	44.97	50.00	ug/L	90%		70-130
Ethyl tert-Butyl Ether (ETBE)	42.12	50.00	ug/L	84%		70-130
Methyl tert-Amyl Ether (TAME)	43.81	50.00	ug/L	88%		70-130
tert-Butyl Alcohol (TBA)	209.4	250.0	ug/L	84%		48-125
m,p-Xylenes	100.7	100.0	ug/L	101%		70-130
o-Xylene	48.46	50.00	ug/L	97%		70-130
Chloromethane	50.13	50.00	ug/L	100%		65-130
Vinyl Chloride	44.89	50.00	ug/L	90%		70-130
Bromomethane	47.77	50.00	ug/L	96%		57-151
Chloroethane	40.27	50.00	ug/L	81%		65-129
1,1-Dichloroethene	47.36	50.00	ug/L	95%		70-135
Methylene Chloride	39.22	50.00	ug/L	78%		70-130
trans-1,2-Dichloroethene	47.17	50.00	ug/L	94%		70-130
1,1-Dichloroethane	46.12	50.00	ug/L	92%		70-130
Chloroform	45.98	50.00	ug/L	92%		70-130
1,1,1-Trichloroethane	47.84	50.00	ug/L	96%		70-130
Carbon Tetrachloride	50.16	50.00	ug/L	100%		70-130
1,2-Dichloroethane	50.08	50.00	ug/L	100%		70-130
Benzene	48.03	50.00	ug/L	96%		70-130
Trichloroethene	48.85	50.00	ug/L	98%		70-130
1,2-Dichloropropane	51.60	50.00	ug/L	103%		70-130
Bromodichloromethane	49.21	50.00	ug/L	98%		70-130
cis-1,3-Dichloropropene	48.55	50.00	ug/L	97%		70-130
Toluene	48.73	50.00	ug/L	97%		70-130
trans-1,3-Dichloropropene	45.48	50.00	ug/L	91%		70-130
1,1,2-Trichloroethane	48.05	50.00	ug/L	96%		70-130
Tetrachloroethene	46.12	50.00	ug/L	92%		70-130
Dibromochloromethane	47.27	50.00	ug/L	95%		70-130
Chlorobenzene	46.01	50.00	ug/L	92%		70-130
Ethylbenzene	50.32	50.00	ug/L	101%		70-130
Bromoform	45.73	50.00	ug/L	91%		70-130
1,1,2,2-Tetrachloroethane	47.16	50.00	ug/L	94%		70-130
Surrogates						
Dibromofluoromethane	47.94	50.00	ug/L	96%		70-130
1,2-Dichloroethane-d4	56.49	50.00	ug/L	113%		70-130
Toluene-d8	51.43	50.00	ug/L	103%		70-130
Bromofluorobenzene	48.54	50.00	ug/L	97%		70-130

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1103512	Batch: 325451
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1103512 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	42.94	50.00	ug/L	86%		70-130	5	30
Isopropyl Ether (DIPE)	45.48	50.00	ug/L	91%		70-130	1	30
Ethyl tert-Butyl Ether (ETBE)	43.59	50.00	ug/L	87%		70-130	3	30
Methyl tert-Amyl Ether (TAME)	45.80	50.00	ug/L	92%		70-130	4	30
tert-Butyl Alcohol (TBA)	204.0	250.0	ug/L	82%		48-125	3	30
m,p-Xylenes	100.5	100.0	ug/L	101%		70-130	0	30
o-Xylene	48.94	50.00	ug/L	98%		70-130	1	30
Chloromethane	51.14	50.00	ug/L	102%		65-130	2	30
Vinyl Chloride	45.11	50.00	ug/L	90%		70-130	0	30
Bromomethane	45.43	50.00	ug/L	91%		57-151	5	30
Chloroethane	40.14	50.00	ug/L	80%		65-129	0	30
1,1-Dichloroethene	48.24	50.00	ug/L	96%		70-135	2	30
Methylene Chloride	40.79	50.00	ug/L	82%		70-130	4	30
trans-1,2-Dichloroethene	47.55	50.00	ug/L	95%		70-130	1	30
1,1-Dichloroethane	46.30	50.00	ug/L	93%		70-130	0	30
Chloroform	47.02	50.00	ug/L	94%		70-130	2	30
1,1,1-Trichloroethane	48.15	50.00	ug/L	96%		70-130	1	30
Carbon Tetrachloride	50.43	50.00	ug/L	101%		70-130	1	30
1,2-Dichloroethane	50.00	50.00	ug/L	100%		70-130	0	30
Benzene	48.85	50.00	ug/L	98%		70-130	2	30
Trichloroethene	48.32	50.00	ug/L	97%		70-130	1	30
1,2-Dichloropropane	52.45	50.00	ug/L	105%		70-130	2	30
Bromodichloromethane	49.25	50.00	ug/L	98%		70-130	0	30
cis-1,3-Dichloropropene	49.81	50.00	ug/L	100%		70-130	3	30
Toluene	48.90	50.00	ug/L	98%		70-130	0	30
trans-1,3-Dichloropropene	46.55	50.00	ug/L	93%		70-130	2	30
1,1,2-Trichloroethane	48.92	50.00	ug/L	98%		70-130	2	30
Tetrachloroethene	45.88	50.00	ug/L	92%		70-130	1	30
Dibromochloromethane	47.68	50.00	ug/L	95%		70-130	1	30
Chlorobenzene	45.77	50.00	ug/L	92%		70-130	1	30
Ethylbenzene	50.06	50.00	ug/L	100%		70-130	1	30
Bromoform	46.84	50.00	ug/L	94%		70-130	2	30
1,1,2,2-Tetrachloroethane	48.78	50.00	ug/L	98%		70-130	3	30
Surrogates								
Dibromofluoromethane	48.50	50.00	ug/L	97%		70-130		
1,2-Dichloroethane-d4	53.50	50.00	ug/L	107%		70-130		
Toluene-d8	51.00	50.00	ug/L	102%		70-130		
Bromofluorobenzene	49.13	50.00	ug/L	98%		70-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1103514	Batch: 325451
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1103514 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
2-Chloroethylvinylether	10.70	50.00	ug/L	21%	b	10-130
Surrogates						
Dibromofluoromethane	49.45	50.00	ug/L	99%		70-130
1,2-Dichloroethane-d4	54.17	50.00	ug/L	108%		70-130
Toluene-d8	51.85	50.00	ug/L	104%		70-130
Bromofluorobenzene	49.60	50.00	ug/L	99%		70-130

Batch QC

Type: Blank	Lab ID: QC1103515	Batch: 325451
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1103515 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	10/30/23	10/30/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	10/30/23	10/30/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	10/30/23	10/30/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	10/30/23	10/30/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	10/30/23	10/30/23
m,p-Xylenes	ND		ug/L	10	10/30/23	10/30/23
o-Xylene	ND		ug/L	5.0	10/30/23	10/30/23
Chloromethane	ND		ug/L	1.0	10/30/23	10/30/23
Vinyl Chloride	ND		ug/L	0.5	10/30/23	10/30/23
Bromomethane	ND		ug/L	1.0	10/30/23	10/30/23
Chloroethane	ND		ug/L	1.0	10/30/23	10/30/23
1,1-Dichloroethene	ND		ug/L	0.5	10/30/23	10/30/23
Methylene Chloride	ND		ug/L	10	10/30/23	10/30/23
trans-1,2-Dichloroethene	ND		ug/L	0.5	10/30/23	10/30/23
1,1-Dichloroethane	ND		ug/L	0.5	10/30/23	10/30/23
Chloroform	ND		ug/L	0.5	10/30/23	10/30/23
1,1,1-Trichloroethane	ND		ug/L	0.5	10/30/23	10/30/23
Carbon Tetrachloride	ND		ug/L	0.5	10/30/23	10/30/23
1,2-Dichloroethane	ND		ug/L	0.5	10/30/23	10/30/23
Benzene	ND		ug/L	5.0	10/30/23	10/30/23
Trichloroethene	ND		ug/L	0.5	10/30/23	10/30/23
1,2-Dichloropropane	ND		ug/L	0.5	10/30/23	10/30/23
Bromodichloromethane	ND		ug/L	0.5	10/30/23	10/30/23
cis-1,3-Dichloropropene	ND		ug/L	0.5	10/30/23	10/30/23
Toluene	ND		ug/L	0.5	10/30/23	10/30/23
trans-1,3-Dichloropropene	ND		ug/L	0.5	10/30/23	10/30/23
1,1,2-Trichloroethane	ND		ug/L	0.5	10/30/23	10/30/23
Tetrachloroethene	ND		ug/L	0.5	10/30/23	10/30/23
Dibromochloromethane	ND		ug/L	0.5	10/30/23	10/30/23
Chlorobenzene	ND		ug/L	0.5	10/30/23	10/30/23
Ethylbenzene	ND		ug/L	5.0	10/30/23	10/30/23
Bromoform	ND		ug/L	1.0	10/30/23	10/30/23
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	10/30/23	10/30/23
2-Chloroethylvinylether	ND		ug/L	5.0	10/30/23	10/30/23
Xylene (total)	ND		ug/L	5.0	10/30/23	10/30/23
Surrogates				Limits		
Dibromofluoromethane	97%		%REC	70-130	10/30/23	10/30/23
1,2-Dichloroethane-d4	107%		%REC	70-130	10/30/23	10/30/23
Toluene-d8	102%		%REC	70-130	10/30/23	10/30/23
Bromofluorobenzene	96%		%REC	70-130	10/30/23	10/30/23

Batch QC

Type: Blank	Lab ID: QC1102803	Batch: 325248
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1102803 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	10/26/23	10/27/23
Surrogates				Limits		
n-Triacontane	79%		%REC	35-130	10/26/23	10/27/23

Type: Lab Control Sample	Lab ID: QC1102804	Batch: 325248
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1102804 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.8826	1.000	mg/L	88%		42-120
Surrogates						
n-Triacontane	0.01533	0.02000	mg/L	77%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1102805	Batch: 325248
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1102805 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.8939	1.000	mg/L	89%		42-120	1	36
Surrogates								
n-Triacontane	0.01541	0.02000	mg/L	77%		35-130		

Type: Lab Control Sample	Lab ID: QC1102859	Batch: 325268
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1102859 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	536.3	500.0	ug/L	107%		70-130
Surrogates						
Bromofluorobenzene (FID)	259.2	200.0	ug/L	130%		60-140

Type: Matrix Spike	Lab ID: QC1102860	Batch: 325268
Matrix (Source ID): Water (494268-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1102860 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	521.2	ND	500.0	ug/L	104%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	225.0		200.0	ug/L	112%		60-140	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1102861	Batch: 325268
Matrix (Source ID): Water (494268-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1102861 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	485.1	ND	500.0	ug/L	97%		70-130	7	30	1
Surrogates										
Bromofluorobenzene (FID)	222.1		200.0	ug/L	111%		60-140			1

Type: Blank	Lab ID: QC1102862	Batch: 325268
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1102862 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	10/26/23	10/26/23
Surrogates				Limits		
Bromofluorobenzene (FID)	104%		%REC	60-140	10/26/23	10/26/23

ND Not Detected
 b See narrative



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

enthalpy.com

Lab Job Number: 496140
Report Level: II
Report Date: 12/04/2023

Analytical Report *prepared for:*

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

Project: PERMIT #22453_WW -
WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

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

Sample Summary

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

Lab Job #: 496140
Project No: PERMIT #22453_WW
Location: WW
Date Received: 11/16/23

Sample ID	Lab ID	Collected	Matrix
EFFLUENT_COMP_11-16-23	496140-001	11/16/23 10:05	Water

996640

CHAIN OF CUSTODY RECORD		ENTHALPY ANALYTICAL		Lab Number: 15881	
931 W. Barkley, Orange, CA 92668 Phone: (714) 771-8900 Fax: (714) 771-9933 Billing: Enthalpy Analytical c/o Montrose Environmental Group Inc. P.O. Box 741137, Los Angeles, CA 90044-1137		www.enthalpy.com		Client ID: 15881	
Preservative: 1=NazS2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other		Turn Around Time		Standard: <input checked="" type="checkbox"/> X 72 Hours 48 Hours 24 Hours Same Day	
****Turn around time will start the following day for samples received at the Lab after 3pm****		PROJECT INFORMATION		Name: VW	
Company: APEX		Number: Permit #22453		Address: 15306 Norwalk Blvd	
Report To: Imelda Morales		Global ID: Norwalk, CA 90650		P.O. #:	
Email: ks@montroseapex.com		Global ID: Norwalk, CA 90650		P.O. #:	
Address: 1962 Freeman Ave		Global ID: Norwalk, CA 90650		P.O. #:	
Signal Hill, CA 90755		Global ID: Norwalk, CA 90650		P.O. #:	
Phone: 562-597-1055		Global ID: Norwalk, CA 90650		P.O. #:	
Fax:		Global ID: Norwalk, CA 90650		P.O. #:	
Sample ID		Date		Time	
1 Effluent Comp_11-16-23		11-16-23		1005	
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ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: APEX - Signal Hill

Project: WW

Date Received: 11/16/23

Sampler's Name Present: Yes No

Section 2

Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2)

Sample Temp (°C)
(No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 9.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____

Cooler Temp (°C): #1: 5.4 #2: _____ #3: _____ #4: _____

Section 4

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

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: _____ Date: 11/16/23

Analysis Results for 496140

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

Lab Job #: 496140
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 11/16/23

Sample ID: EFFLUENT_COMP_11-16-23	Lab ID: 496140-001 Matrix: Water	Collected: 11/16/23 10:05
---	---	----------------------------------

496140-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD									
Total Suspended Solids	1.0		mg/L	0.5	1	326994	11/21/23	11/22/23	DXA
Method: SM5220D Prep Method: METHOD									
Chemical Oxygen Demand	4.0		mg/L	4.0	1	326969	11/20/23	11/21/23	DXA

Batch QC

Type: Blank	Lab ID: QC1108651	Batch: 326994
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC1108651 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	11/21/23	11/22/23

Type: Sample Duplicate	Lab ID: QC1108652	Batch: 326994
Matrix (Source ID): Water (496206-001)	Method: SM2540D	Prep Method: METHOD

QC1108652 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	116.2	112.0	mg/L		4	5	1

Type: Sample Duplicate	Lab ID: QC1108653	Batch: 326994
Matrix (Source ID): Water (496305-002)	Method: SM2540D	Prep Method: METHOD

QC1108653 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	44.75	46.00	mg/L		3	5	1

Type: Blank	Lab ID: QC1108581	Batch: 326969
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC1108581 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	11/20/23	11/21/23

Type: Lab Control Sample	Lab ID: QC1108582	Batch: 326969
Matrix: Water	Method: SM5220D	Prep Method: METHOD

QC1108582 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	108.0	100.0	mg/L	108%		90-110

Type: Matrix Spike	Lab ID: QC1108583	Batch: 326969
Matrix (Source ID): Water (496157-001)	Method: SM5220D	Prep Method: METHOD

QC1108583 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	258.0	150.0	100.0	mg/L	108%		77-120	2

Type: Matrix Spike Duplicate	Lab ID: QC1108584	Batch: 326969
Matrix (Source ID): Water (496157-001)	Method: SM5220D	Prep Method: METHOD

QC1108584 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chemical Oxygen Demand	240.0	150.0	100.0	mg/L	90%		77-120	7	20	2

Batch QC

ND Not Detected



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

enthalpy.com

Lab Job Number: 496141
Report Level: II
Report Date: 12/04/2023

Analytical Report *prepared for:*

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

Project: PERMIT #22453_WW -
WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

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

Sample Summary

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

Lab Job #: 496141
Project No: PERMIT #22453_WW
Location: WW
Date Received: 11/16/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_11-16-23	496141-001	11/16/23 10:55	Water
AFTER B-1_11-16-23	496141-002	11/16/23 10:45	Water
AFTER HSPF1_11-16-23	496141-003	11/16/23 10:40	Water
AFTER LGAC2_11-16-23	496141-004	11/16/23 10:35	Water
EFFLUENT_11-16-23	496141-005	11/16/23 10:25	Water

Case Narrative

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

Lab Job 496141
Number:
Project No: PERMIT
#22453_WW
Location: WW
Date Received: 11/16/23

This data package contains sample and QC results for five water samples, requested for the above referenced project on 11/16/23. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 624.1):

- SURGE TANK_11-16-23 (lab # 496141-001) and EFFLUENT_11-16-23 (lab # 496141-005) had pH greater than 2.
- No other analytical problems were encountered.



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: APEX - Signal Hill Project: WW
 Date Received: 11/16/23 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 9.5 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 5.4 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>		
Are sample IDs present?	<input checked="" type="checkbox"/>		
Are sampling dates & times present?	<input checked="" type="checkbox"/>		
Is a relinquished signature present?	<input checked="" type="checkbox"/>		
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>		
Are custody seals present?		<input checked="" type="checkbox"/>	
If custody seals are present, were they intact?			<input checked="" type="checkbox"/>
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			<input checked="" type="checkbox"/>
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>		
Are the containers labeled with the correct preservatives?	<input checked="" type="checkbox"/>		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		<input checked="" type="checkbox"/>	
Was a sufficient amount of sample submitted for the requested tests? <i>KN 11/16/23</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Section 5 Explanations/Comments
Did not receive 3 unopened vials for sample ODS KN 11/16/23

Section 6
 For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____
 Email (email sent to/on): DMG / 11/16/23
 Project Manager's response: _____

Completed By: [Signature] Date: 11/16/23

Analysis Results for 496141

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

Lab Job #: 496141
Project No: PERMIT #22453_WW
Location: WW
Date Received: 11/16/23

Sample ID: SURGE TANK_11-16-23	Lab ID: 496141-001	Collected: 11/16/23 10:55
Matrix: Water		

496141-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 3015A									
Arsenic	0.016		mg/L	0.010	1	326694	11/16/23	11/16/23	SBW
Method: EPA 624.1 Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	326952	11/21/23	11/21/23	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	326952	11/21/23	11/21/23	TCN
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	326952	11/21/23	11/21/23	TCN
m,p-Xylenes	ND		ug/L	10	1	326952	11/21/23	11/21/23	TCN
o-Xylene	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Benzene	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Toluene	ND		ug/L	0.5	1	326952	11/21/23	11/21/23	TCN
Ethylbenzene	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Xylene (total)	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Surrogates				Limits					
Dibromofluoromethane	105%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
1,2-Dichloroethane-d4	100%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
Toluene-d8	98%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
Bromofluorobenzene	98%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
Method: EPA 8015B Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	326888	11/20/23	11/20/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	86%		%REC	60-140	1	326888	11/20/23	11/20/23	SXR
Method: EPA 8015B Prep Method: EPA 3510C									
Diesel C10-C28	0.34		mg/L	0.10	1	326860	11/20/23	11/20/23	SME
Surrogates				Limits					
n-Triacontane	57%		%REC	35-130	1	326860	11/20/23	11/20/23	SME

Sample ID: AFTER B-1_11-16-23	Lab ID: 496141-002	Collected: 11/16/23 10:45
Matrix: Water		

496141-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	326694	11/16/23	11/16/23	SBW

Analysis Results for 496141

Sample ID: AFTER HSPF1_11-16-23	Lab ID: 496141-003	Collected: 11/16/23 10:40
	Matrix: Water	

496141-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7									
Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	326694	11/16/23	11/16/23	SBW

Sample ID: AFTER LGAC2_11-16-23	Lab ID: 496141-004	Collected: 11/16/23 10:35
	Matrix: Water	

496141-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7									
Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	326694	11/16/23	11/16/23	SBW

Analysis Results for 496141

Sample ID: EFFLUENT_11-16-23	Lab ID: 496141-005	Collected: 11/16/23 10:25
Matrix: Water		

496141-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 3015A									
Arsenic	0.012		mg/L	0.010	1	326694	11/16/23	11/16/23	SBW
Method: EPA 624.1 Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	326952	11/21/23	11/21/23	TCN
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	326952	11/21/23	11/21/23	TCN
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	326952	11/21/23	11/21/23	TCN
m,p-Xylenes	ND		ug/L	10	1	326952	11/21/23	11/21/23	TCN
o-Xylene	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Benzene	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Toluene	ND		ug/L	0.5	1	326952	11/21/23	11/21/23	TCN
Ethylbenzene	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Xylene (total)	ND		ug/L	5.0	1	326952	11/21/23	11/21/23	TCN
Surrogates				Limits					
Dibromofluoromethane	103%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
1,2-Dichloroethane-d4	100%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
Toluene-d8	96%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
Bromofluorobenzene	97%		%REC	70-130	1	326952	11/21/23	11/21/23	TCN
Method: EPA 8015B Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	326888	11/20/23	11/20/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	88%		%REC	60-140	1	326888	11/20/23	11/20/23	SXR
Method: EPA 8015B Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.094	0.94	326860	11/20/23	11/20/23	SME
Surrogates				Limits					
n-Triacontane	64%		%REC	35-130	0.94	326860	11/20/23	11/20/23	SME

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1107629	Batch: 326694
Matrix: Water	Method: EPA 200.7	Prep Method: EPA 3015A

QC1107629 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Arsenic	ND		mg/L	0.010	11/16/23	11/16/23

Type: Lab Control Sample	Lab ID: QC1107630	Batch: 326694
Matrix: Water	Method: EPA 200.7	Prep Method: EPA 3015A

QC1107630 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	0.3822	0.4000	mg/L	96%		85-115

Type: Matrix Spike	Lab ID: QC1107631	Batch: 326694
Matrix (Source ID): Water (495948-007)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1107631 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	0.3834	ND	0.4000	mg/L	96%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1107632	Batch: 326694
Matrix (Source ID): Water (495948-007)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1107632 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	0.3864	ND	0.4000	mg/L	97%		75-125	1	20	1

Type: Matrix Spike	Lab ID: QC1107633	Batch: 326694
Matrix (Source ID): Water (496141-005)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1107633 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	0.4053	0.01196	0.4000	mg/L	98%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1107634	Batch: 326694
Matrix (Source ID): Water (496141-005)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1107634 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	0.4015	0.01196	0.4000	mg/L	97%		75-125	1	20	1

Batch QC

Type: Lab Control Sample	Lab ID: QC1108507	Batch: 326952
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1108507 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	52.98	50.00	ug/L	106%		70-130
Isopropyl Ether (DIPE)	49.95	50.00	ug/L	100%		70-130
Ethyl tert-Butyl Ether (ETBE)	53.53	50.00	ug/L	107%		70-130
Methyl tert-Amyl Ether (TAME)	59.67	50.00	ug/L	119%		70-130
tert-Butyl Alcohol (TBA)	289.4	250.0	ug/L	116%		48-125
m,p-Xylenes	117.8	100.0	ug/L	118%		70-130
o-Xylene	58.08	50.00	ug/L	116%		70-130
Benzene	58.98	50.00	ug/L	118%		70-130
Toluene	50.72	50.00	ug/L	101%		70-130
Ethylbenzene	59.18	50.00	ug/L	118%		70-130
Surrogates						
Dibromofluoromethane	51.17	50.00	ug/L	102%		70-130
1,2-Dichloroethane-d4	48.61	50.00	ug/L	97%		70-130
Toluene-d8	44.97	50.00	ug/L	90%		70-130
Bromofluorobenzene	54.59	50.00	ug/L	109%		70-130

Type: Lab Control Sample Duplicate	Lab ID: QC1108508	Batch: 326952
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1108508 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	51.55	50.00	ug/L	103%		70-130	3	30
Isopropyl Ether (DIPE)	49.85	50.00	ug/L	100%		70-130	0	30
Ethyl tert-Butyl Ether (ETBE)	51.00	50.00	ug/L	102%		70-130	5	30
Methyl tert-Amyl Ether (TAME)	56.03	50.00	ug/L	112%		70-130	6	30
tert-Butyl Alcohol (TBA)	292.8	250.0	ug/L	117%		48-125	1	30
m,p-Xylenes	113.8	100.0	ug/L	114%		70-130	3	30
o-Xylene	58.33	50.00	ug/L	117%		70-130	0	30
Benzene	51.96	50.00	ug/L	104%		70-130	13	30
Toluene	52.89	50.00	ug/L	106%		70-130	4	30
Ethylbenzene	54.75	50.00	ug/L	109%		70-130	8	30
Surrogates								
Dibromofluoromethane	49.17	50.00	ug/L	98%		70-130		
1,2-Dichloroethane-d4	47.37	50.00	ug/L	95%		70-130		
Toluene-d8	50.17	50.00	ug/L	100%		70-130		
Bromofluorobenzene	48.10	50.00	ug/L	96%		70-130		

Batch QC

Type: Blank	Lab ID: QC1108511	Batch: 326952
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1108511 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	11/21/23	11/21/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	11/21/23	11/21/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	11/21/23	11/21/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	11/21/23	11/21/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	11/21/23	11/21/23
m,p-Xylenes	ND		ug/L	10	11/21/23	11/21/23
o-Xylene	ND		ug/L	5.0	11/21/23	11/21/23
Benzene	ND		ug/L	5.0	11/21/23	11/21/23
Toluene	ND		ug/L	0.5	11/21/23	11/21/23
Ethylbenzene	ND		ug/L	5.0	11/21/23	11/21/23
Xylene (total)	ND		ug/L	5.0	11/21/23	11/21/23
Surrogates	Limits					
Dibromofluoromethane	100%		%REC	70-130	11/21/23	11/21/23
1,2-Dichloroethane-d4	98%		%REC	70-130	11/21/23	11/21/23
Toluene-d8	101%		%REC	70-130	11/21/23	11/21/23
Bromofluorobenzene	100%		%REC	70-130	11/21/23	11/21/23

Type: Blank	Lab ID: QC1108251	Batch: 326860
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1108251 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	11/20/23	11/20/23
Surrogates	Limits					
n-Triacontane	61%		%REC	35-130	11/20/23	11/20/23

Type: Lab Control Sample	Lab ID: QC1108252	Batch: 326860
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1108252 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.8401	1.000	mg/L	84%		42-120
Surrogates						
n-Triacontane	0.01341	0.02000	mg/L	67%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1108253	Batch: 326860
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1108253 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.8547	1.000	mg/L	85%		42-120	2	36
Surrogates								
n-Triacontane	0.01387	0.02000	mg/L	69%		35-130		

Batch QC

Type: Lab Control Sample	Lab ID: QC1108326	Batch: 326888
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1108326 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	533.7	500.0	ug/L	107%		70-130
Surrogates						
Bromofluorobenzene (FID)	174.2	200.0	ug/L	87%		60-140

Type: Matrix Spike	Lab ID: QC1108327	Batch: 326888
Matrix (Source ID): Water (496141-005)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1108327 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	539.3	ND	500.0	ug/L	108%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	172.5		200.0	ug/L	86%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC1108328	Batch: 326888
Matrix (Source ID): Water (496141-005)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1108328 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	541.3	ND	500.0	ug/L	108%		70-130	0	30	1
Surrogates										
Bromofluorobenzene (FID)	175.1		200.0	ug/L	88%		60-140			1

Type: Blank	Lab ID: QC1108329	Batch: 326888
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1108329 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	11/20/23	11/20/23
Surrogates						
Bromofluorobenzene (FID)	86%		%REC	60-140	11/20/23	11/20/23

ND Not Detected



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

enthalpy.com

Lab Job Number: 497906
Report Level: II
Report Date: 12/28/2023

Analytical Report *prepared for:*

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

Project: PERMIT #22453_WW - WW

Authorized for release by:

Diane Galvan, Project Manager
714-771-9928
diane.galvan@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

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

Sample Summary

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

Lab Job #: 497906
Project No: PERMIT #22453_WW
Location: WW
Date Received: 12/13/23

Sample ID	Lab ID	Collected	Matrix
SURGE TANK_12-13-23	497906-001	12/13/23 09:03	Water
AFTER B-1_12-13-23	497906-002	12/13/23 08:58	Water
AFTER HSPF1_12-13-23	497906-003	12/13/23 08:54	Water
AFTER LGAC3_12-13-23	497906-004	12/13/23 08:50	Water
EFFLUENT_12-13-23	497906-005	12/13/23 08:38	Water

Case Narrative

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

Lab Job 497906
Number:
Project No: PERMIT
#22453_WW
Location: WW
Date Received: 12/13/23

This data package contains sample and QC results for five water samples, requested for the above referenced project on 12/13/23. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 624.1):

- SURGE TANK_12-13-23 (lab # 497906-001) and EFFLUENT_12-13-23 (lab # 497906-005) had pH greater than 2.
- No other analytical problems were encountered.

497906

CHAIN OF CUSTODY RECORD
 931 W. Barkley, Orange, CA 92668
 Phone: (714) 771-4900 Fax: (714) 771-9933
 Billing: Enthality Analytical
 c/o Montrose Environmental Group Inc.
 P.O. Box 741137, Los Angeles, CA 90074-1137
 www.enthalpy.com

ENTHALPY ANALYTICAL
 Lab Number: 15881
 Client ID: 1 of 1
 Page: 1 of 1

Preservative: 1=Na2S2O3 2=HCl 3=HNO3 4=H2SO4 5=NaOH 6=Other
 Matrix: A=Air DW=Drinking Water FL=Food Liquid FS=Food Solid
 L=Liquid PP=Pure Product S=Solid SW=Swab W=Water WP=Wipe O=Other
 *****Turn around time will start the following day
 for samples received at the Lab after 3pm****

CUSTOMER INFORMATION
 Company: APEX
 Report To: Inelda Morales
 Email: inelda.morales@apexcs.com, kalvovan@apexcs.com
 Address: 1962 Freeman Ave
 Signal Hill, CA 90755
 Phone: 562-597-1055 Fax:

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

Analysis

Sample ID	Date	Time	Matrix	Container	Pres.	8015 TPHD (DRO)	8015 TPHG (GRO)	624-VOCs (BTEX & m.p. Xylenes & Oxygenates)	EPA 200.7-Total As
1	Surge Tank_12-13-23	0903	W	*	*	X	X	X	X
2	After B-1_12-13-23	0853	W	*	*	X	X	X	X
3	After HSPF1_12-13-23	0854	W	*	*	X	X	X	X
4	After LGAC3_12-13-23	0850	W	*	*	X	X	X	X
5	Effluent_12-13-23	0838	W	*	*	X	X	X	X
6									
7									
8									
9									
10									
11									
12									
13									
14									

Test Instruction & Comments

Enthalpy Quote No.: APEX_012120

*TPHD - 1L amber, unpreserved

*TPHG - 3x 40ml VOA vials w/HCl

*624-VOCs - 3x 40ml VOA vials w/HCl

3x 40ml VOA vials unpreserved

*Metals (Total As only) - 250ml poly w/HNO3

Meter Readings

Begin/End	pH	Temp.	Time
1) Begin/End	6.88	18.4°C	0838
2) Begin/End			
3) Begin/End			
4) Begin/End			

Relinquished By: Glenn Androsko
 Print Name: Glenn Androsko
 Date: 12-13-23 Time: 1630

Relinquished By: Glenn Androsko
 Print Name: Glenn Androsko
 Date: 12-13-23 Time: 1630

Relinquished By: Glenn Androsko
 Print Name: Glenn Androsko
 Date: 12-13-23 Time: 1630

Relinquished By: Glenn Androsko
 Print Name: Glenn Androsko
 Date: 12-13-23 Time: 1630

0.8(11.7)°C



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Apex Project: Permit #22453
 Date Received: 12/13/23 Sampler's Name Present: Yes No

Section 2
 Sample(s) received in a cooler? Yes, How many? 1 No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 11.7 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

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

Section 5 Explanations/Comments

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

Completed By: *Deena Srinivasan* Date: DEC 13 2023

Analysis Results for 497906

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

 Lab Job #: 497906
 Project No: PERMIT #22453_WW
 Location: WW
 Date Received: 12/13/23

Sample ID: SURGE TANK_12-13-23	Lab ID: 497906-001	Collected: 12/13/23 09:03
Matrix: Water		

497906-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 3015A									
Arsenic	0.020		mg/L	0.010	1	328490	12/14/23	12/14/23	SBW
Method: EPA 624.1 Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	328516	12/15/23	12/15/23	YAH
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	328516	12/15/23	12/15/23	YAH
tert-Butyl Alcohol (TBA)	11		ug/L	10	1	328516	12/15/23	12/15/23	YAH
m,p-Xylenes	ND		ug/L	10	1	328516	12/15/23	12/15/23	YAH
o-Xylene	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Benzene	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Toluene	ND		ug/L	0.5	1	328516	12/15/23	12/15/23	YAH
Ethylbenzene	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Xylene (total)	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Surrogates				Limits					
Dibromofluoromethane	100%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
1,2-Dichloroethane-d4	95%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
Toluene-d8	101%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
Bromofluorobenzene	100%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
Method: EPA 8015B Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	328533	12/15/23	12/15/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	98%		%REC	60-140	1	328533	12/15/23	12/15/23	SXR
Method: EPA 8015B Prep Method: EPA 3510C									
Diesel C10-C28	0.55		mg/L	0.098	0.98	328886	12/20/23	12/20/23	KMB
Surrogates				Limits					
n-Triacontane	92%		%REC	35-130	0.98	328886	12/20/23	12/20/23	KMB

Sample ID: AFTER B-1_12-13-23	Lab ID: 497906-002	Collected: 12/13/23 08:58
Matrix: Water		

497906-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	328490	12/14/23	12/14/23	SBW

Analysis Results for 497906

Sample ID: AFTER HSPF1_12-13-23	Lab ID: 497906-003	Collected: 12/13/23 08:54
	Matrix: Water	

497906-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7									
Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	328490	12/14/23	12/14/23	SBW

Sample ID: AFTER LGAC3_12-13-23	Lab ID: 497906-004	Collected: 12/13/23 08:50
	Matrix: Water	

497906-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7									
Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	328490	12/14/23	12/14/23	SBW

Analysis Results for 497906

Sample ID: EFFLUENT_12-13-23	Lab ID: 497906-005	Collected: 12/13/23 08:38
Matrix: Water		

497906-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 200.7 Prep Method: EPA 3015A									
Arsenic	ND		mg/L	0.010	1	328490	12/14/23	12/14/23	SBW
Method: EPA 624.1 Prep Method: EPA 624.1									
MTBE	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Isopropyl Ether (DIPE)	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	1	328516	12/15/23	12/15/23	YAH
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	1	328516	12/15/23	12/15/23	YAH
tert-Butyl Alcohol (TBA)	ND		ug/L	10	1	328516	12/15/23	12/15/23	YAH
m,p-Xylenes	ND		ug/L	10	1	328516	12/15/23	12/15/23	YAH
o-Xylene	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Benzene	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Toluene	ND		ug/L	0.5	1	328516	12/15/23	12/15/23	YAH
Ethylbenzene	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Xylene (total)	ND		ug/L	5.0	1	328516	12/15/23	12/15/23	YAH
Surrogates				Limits					
Dibromofluoromethane	99%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
1,2-Dichloroethane-d4	94%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
Toluene-d8	101%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
Bromofluorobenzene	99%		%REC	70-130	1	328516	12/15/23	12/15/23	YAH
Method: EPA 8015B Prep Method: EPA 5030B									
TPH Gasoline	ND		ug/L	50	1	328533	12/15/23	12/15/23	SXR
Surrogates				Limits					
Bromofluorobenzene (FID)	95%		%REC	60-140	1	328533	12/15/23	12/15/23	SXR
Method: EPA 8015B Prep Method: EPA 3510C									
Diesel C10-C28	ND		mg/L	0.098	0.98	328886	12/20/23	12/20/23	KMB
Surrogates				Limits					
n-Triacontane	86%		%REC	35-130	0.98	328886	12/20/23	12/20/23	KMB

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1113570	Batch: 328490
Matrix: Drinking Water	Method: EPA 200.7	Prep Method: EPA 3015A

QC1113570 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Arsenic	ND		mg/L	0.010	12/14/23	12/14/23

Type: Lab Control Sample	Lab ID: QC1113571	Batch: 328490
Matrix: Drinking Water	Method: EPA 200.7	Prep Method: EPA 3015A

QC1113571 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	0.3863	0.4000	mg/L	97%		85-115

Type: Matrix Spike	Lab ID: QC1113572	Batch: 328490
Matrix (Source ID): Water (497828-002)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1113572 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	0.3969	ND	0.4000	mg/L	99%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1113573	Batch: 328490
Matrix (Source ID): Water (497828-002)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1113573 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	0.4041	ND	0.4000	mg/L	101%		75-125	2	20	1

Type: Matrix Spike	Lab ID: QC1113574	Batch: 328490
Matrix (Source ID): Water (497834-003)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1113574 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	0.3990	ND	0.4000	mg/L	100%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1113575	Batch: 328490
Matrix (Source ID): Water (497834-003)	Method: EPA 200.7	Prep Method: EPA 3015A

QC1113575 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	0.4009	ND	0.4000	mg/L	100%		75-125	0	20	1

Batch QC

Type: Lab Control Sample	Lab ID: QC1113683	Batch: 328516
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1113683 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
MTBE	42.69	50.00	ug/L	85%		70-130
Isopropyl Ether (DIPE)	51.52	50.00	ug/L	103%		70-130
Ethyl tert-Butyl Ether (ETBE)	45.59	50.00	ug/L	91%		70-130
Methyl tert-Amyl Ether (TAME)	42.02	50.00	ug/L	84%		70-130
tert-Butyl Alcohol (TBA)	180.1	250.0	ug/L	72%		48-125
m,p-Xylenes	104.7	100.0	ug/L	105%		70-130
o-Xylene	52.18	50.00	ug/L	104%		70-130
Benzene	53.18	50.00	ug/L	106%		70-130
Toluene	52.73	50.00	ug/L	105%		70-130
Ethylbenzene	53.68	50.00	ug/L	107%		70-130
Surrogates						
Dibromofluoromethane	49.25	50.00	ug/L	99%		70-130
1,2-Dichloroethane-d4	46.13	50.00	ug/L	92%		70-130
Toluene-d8	51.33	50.00	ug/L	103%		70-130
Bromofluorobenzene	49.80	50.00	ug/L	100%		70-130

Type: Lab Control Sample Duplicate	Lab ID: QC1113684	Batch: 328516
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1113684 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
MTBE	41.17	50.00	ug/L	82%		70-130	4	30
Isopropyl Ether (DIPE)	49.59	50.00	ug/L	99%		70-130	4	30
Ethyl tert-Butyl Ether (ETBE)	44.22	50.00	ug/L	88%		70-130	3	30
Methyl tert-Amyl Ether (TAME)	40.70	50.00	ug/L	81%		70-130	3	30
tert-Butyl Alcohol (TBA)	183.9	250.0	ug/L	74%		48-125	2	30
m,p-Xylenes	99.69	100.0	ug/L	100%		70-130	5	30
o-Xylene	49.77	50.00	ug/L	100%		70-130	5	30
Benzene	51.53	50.00	ug/L	103%		70-130	3	30
Toluene	50.36	50.00	ug/L	101%		70-130	5	30
Ethylbenzene	51.23	50.00	ug/L	102%		70-130	5	30
Surrogates								
Dibromofluoromethane	48.47	50.00	ug/L	97%		70-130		
1,2-Dichloroethane-d4	45.36	50.00	ug/L	91%		70-130		
Toluene-d8	50.76	50.00	ug/L	102%		70-130		
Bromofluorobenzene	49.31	50.00	ug/L	99%		70-130		

Batch QC

Type: Blank	Lab ID: QC1113687	Batch: 328516
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1113687 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
MTBE	ND		ug/L	5.0	12/15/23	12/15/23
Isopropyl Ether (DIPE)	ND		ug/L	5.0	12/15/23	12/15/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/L	1.0	12/15/23	12/15/23
Methyl tert-Amyl Ether (TAME)	ND		ug/L	1.0	12/15/23	12/15/23
tert-Butyl Alcohol (TBA)	ND		ug/L	10	12/15/23	12/15/23
m,p-Xylenes	ND		ug/L	10	12/15/23	12/15/23
o-Xylene	ND		ug/L	5.0	12/15/23	12/15/23
Benzene	ND		ug/L	5.0	12/15/23	12/15/23
Toluene	ND		ug/L	0.5	12/15/23	12/15/23
Ethylbenzene	ND		ug/L	5.0	12/15/23	12/15/23
Xylene (total)	ND		ug/L	5.0	12/15/23	12/15/23
Surrogates	Limits					
Dibromofluoromethane	99%		%REC	70-130	12/15/23	12/15/23
1,2-Dichloroethane-d4	92%		%REC	70-130	12/15/23	12/15/23
Toluene-d8	102%		%REC	70-130	12/15/23	12/15/23
Bromofluorobenzene	100%		%REC	70-130	12/15/23	12/15/23

Type: Lab Control Sample	Lab ID: QC1113747	Batch: 328533
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1113747 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	600.5	500.0	ug/L	120%		70-130
Surrogates						
Bromofluorobenzene (FID)	189.0	200.0	ug/L	95%		60-140

Type: Matrix Spike	Lab ID: QC1113748	Batch: 328533
Matrix (Source ID): Water (497856-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1113748 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
TPH Gasoline	613.8	18.59	500.0	ug/L	119%		70-130	1
Surrogates								
Bromofluorobenzene (FID)	196.4		200.0	ug/L	98%		60-140	1

Type: Matrix Spike Duplicate	Lab ID: QC1113749	Batch: 328533
Matrix (Source ID): Water (497856-001)	Method: EPA 8015B	Prep Method: EPA 5030B

QC1113749 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
TPH Gasoline	613.1	18.59	500.0	ug/L	119%		70-130	0	30	1
Surrogates										
Bromofluorobenzene (FID)	201.6		200.0	ug/L	101%		60-140			1

Batch QC

Type: Blank	Lab ID: QC1113750	Batch: 328533
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 5030B

QC1113750 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/L	50	12/15/23	12/15/23
Surrogates			Limits			
Bromofluorobenzene (FID)	87%		%REC	60-140	12/15/23	12/15/23

Type: Blank	Lab ID: QC1114846	Batch: 328886
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1114846 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Diesel C10-C28	ND		mg/L	0.10	12/20/23	12/20/23
Surrogates			Limits			
n-Triacontane	94%		%REC	35-130	12/20/23	12/20/23

Type: Lab Control Sample	Lab ID: QC1114847	Batch: 328886
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1114847 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	0.9449	1.000	mg/L	94%		42-120
Surrogates						
n-Triacontane	0.02043	0.02000	mg/L	102%		35-130

Type: Lab Control Sample Duplicate	Lab ID: QC1114848	Batch: 328886
Matrix: Water	Method: EPA 8015B	Prep Method: EPA 3510C

QC1114848 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Diesel C10-C28	0.9026	1.000	mg/L	90%		42-120	5	36
Surrogates								
n-Triacontane	0.01942	0.02000	mg/L	97%		35-130		

ND Not Detected

APPENDIX B
LNAPL HAZARDOUS WASTE MANIFESTS

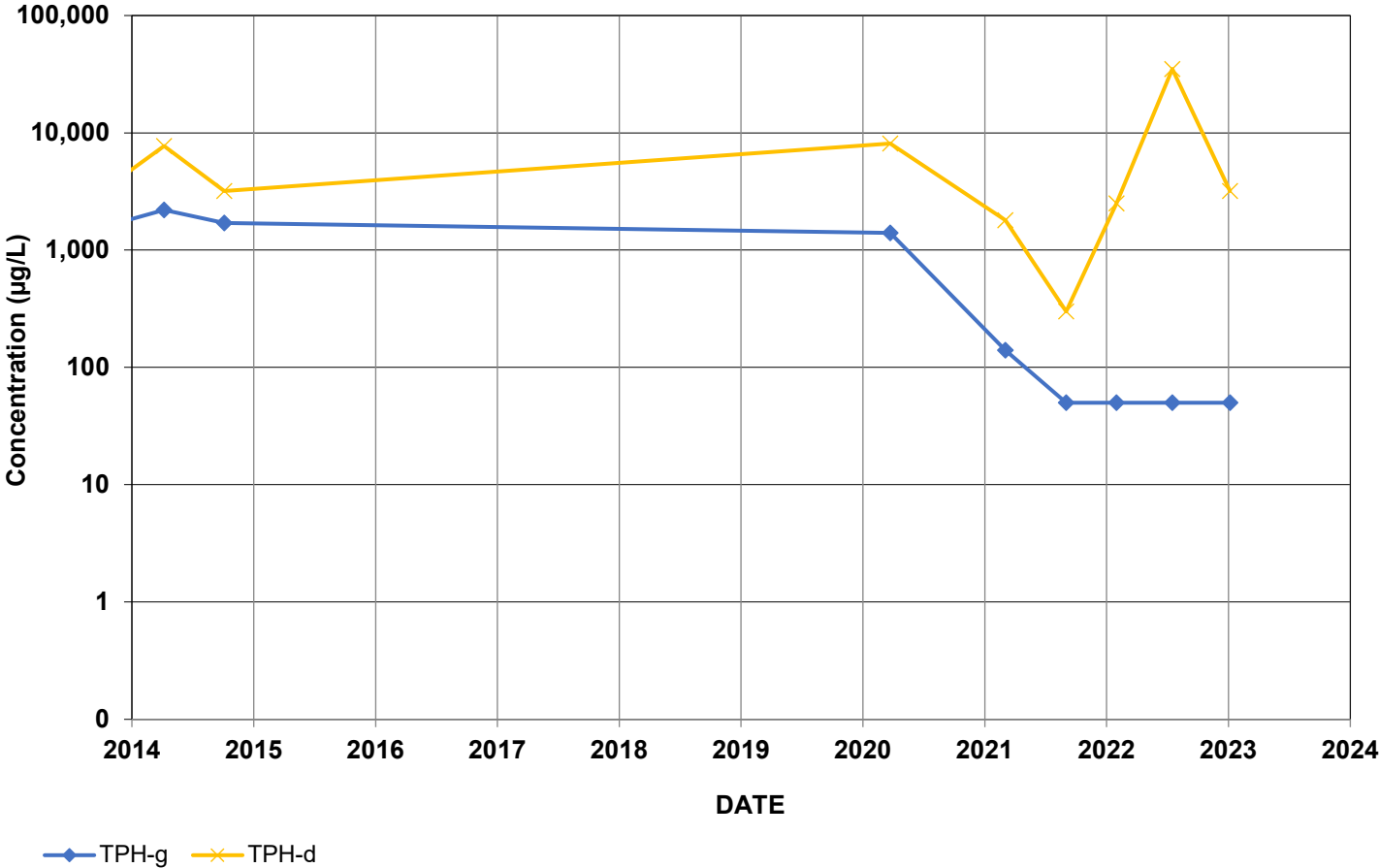
LNAPL Hazardous Waste Manifests were not generated during this Reporting Period.

APPENDIX C

DISSOLVED TPH CONCENTRATION TRENDS

Closest Biosparge Wells: BSP-37 (24 feet), TFB-18 (35 feet)

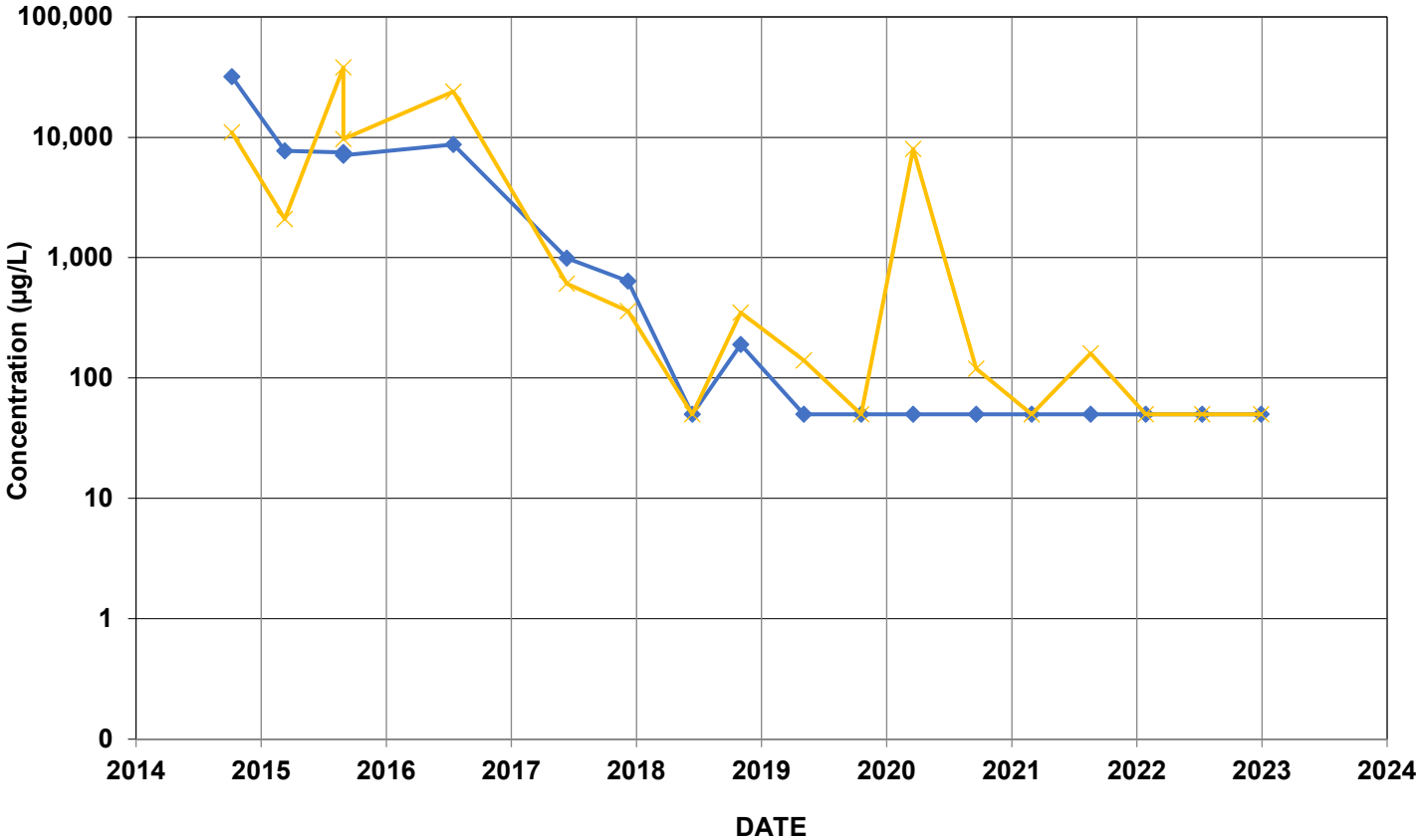
GW-14R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-11 (14 feet)

GW-15

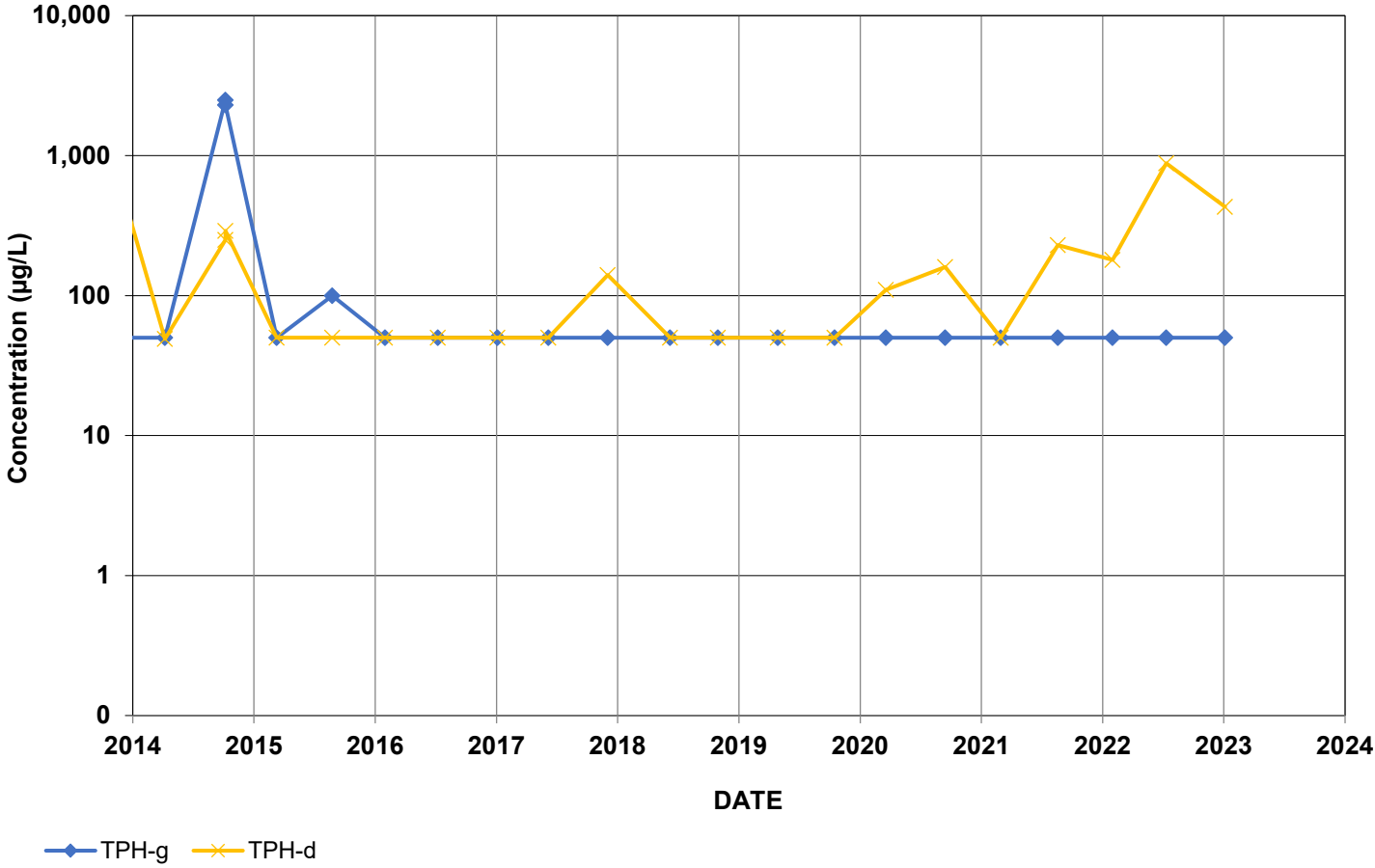


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-16 (14 feet)

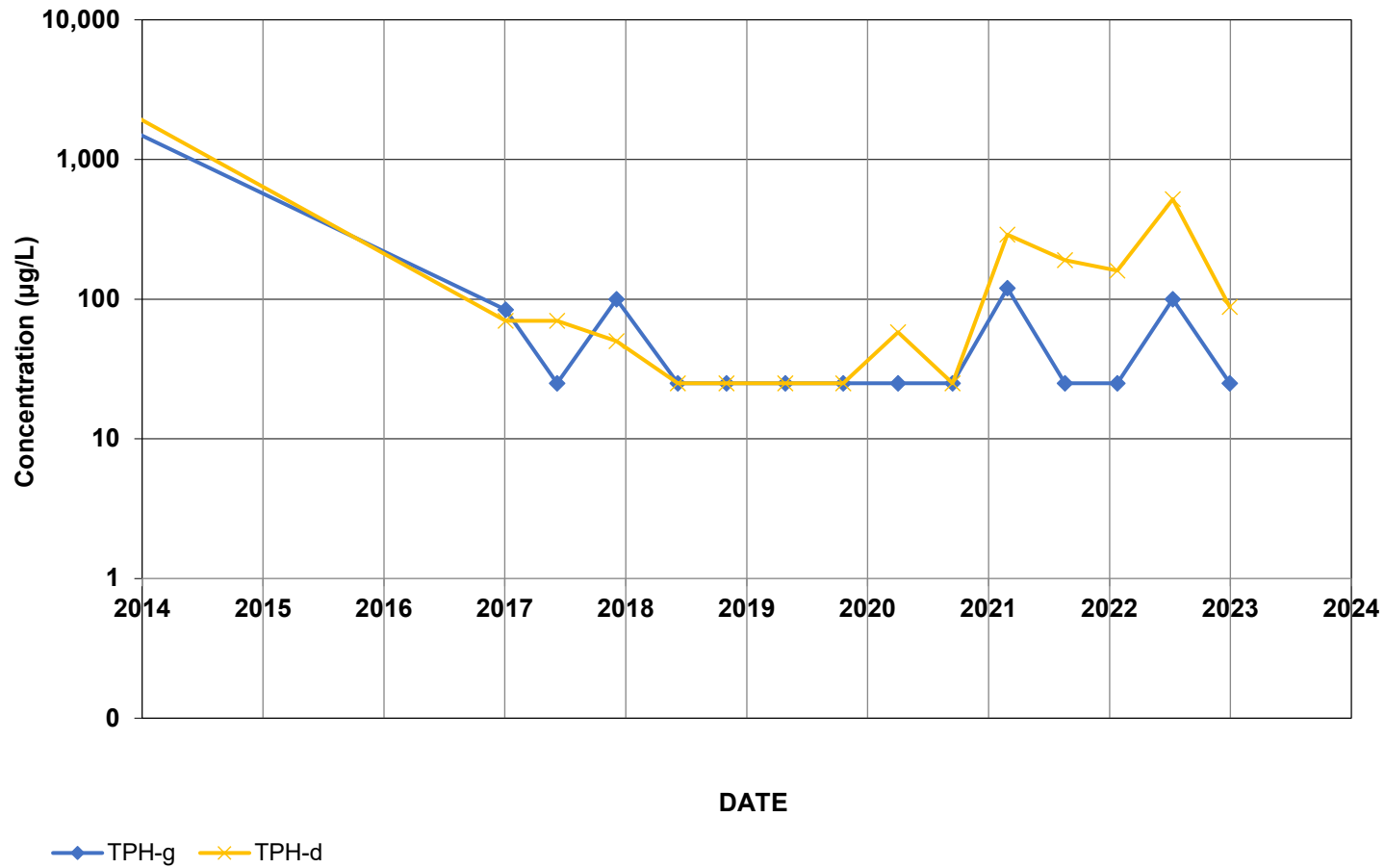
GW-16



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-19 (18 feet), RW-32 (40 feet)

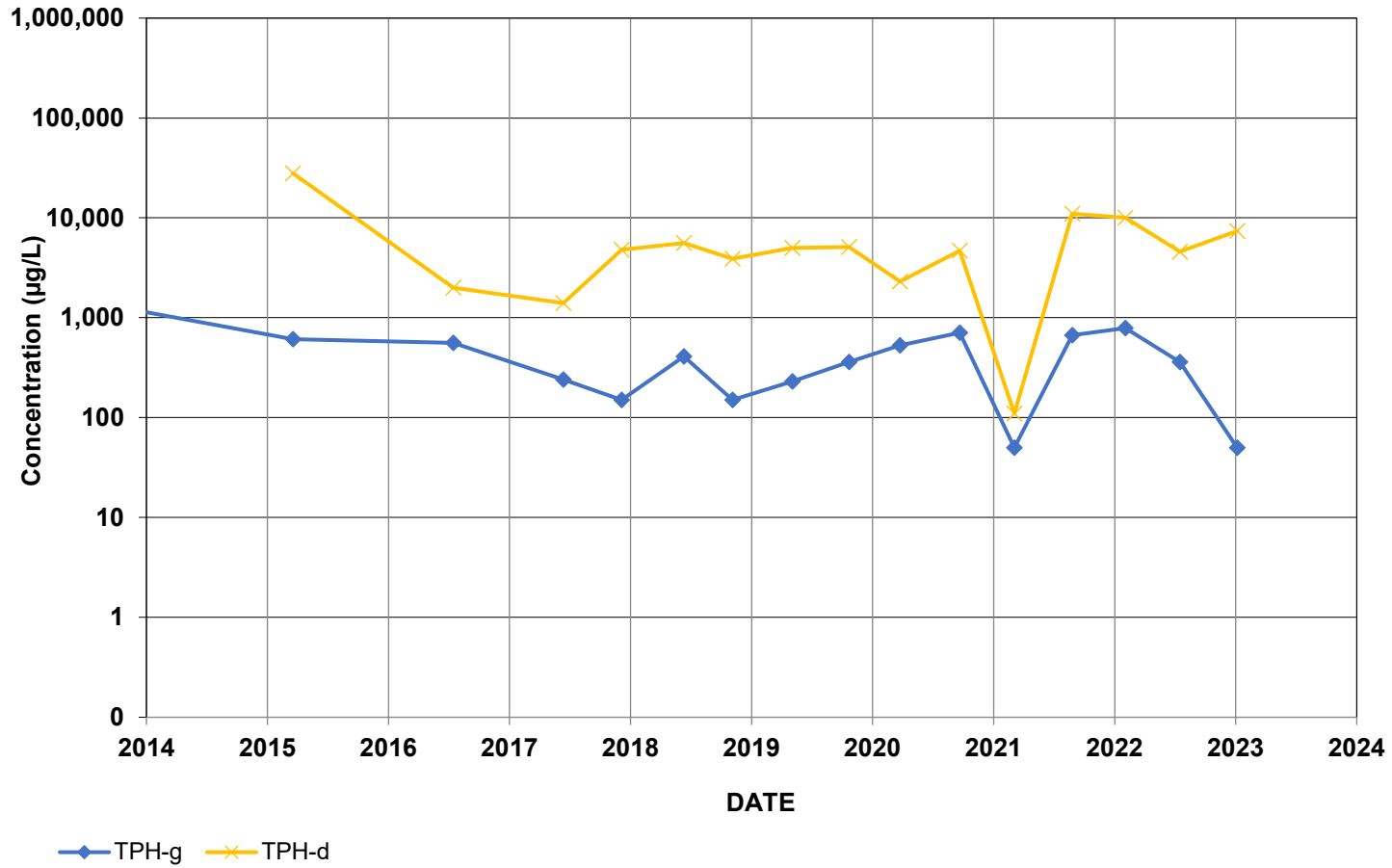
GMW-4R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-10 (26 feet)

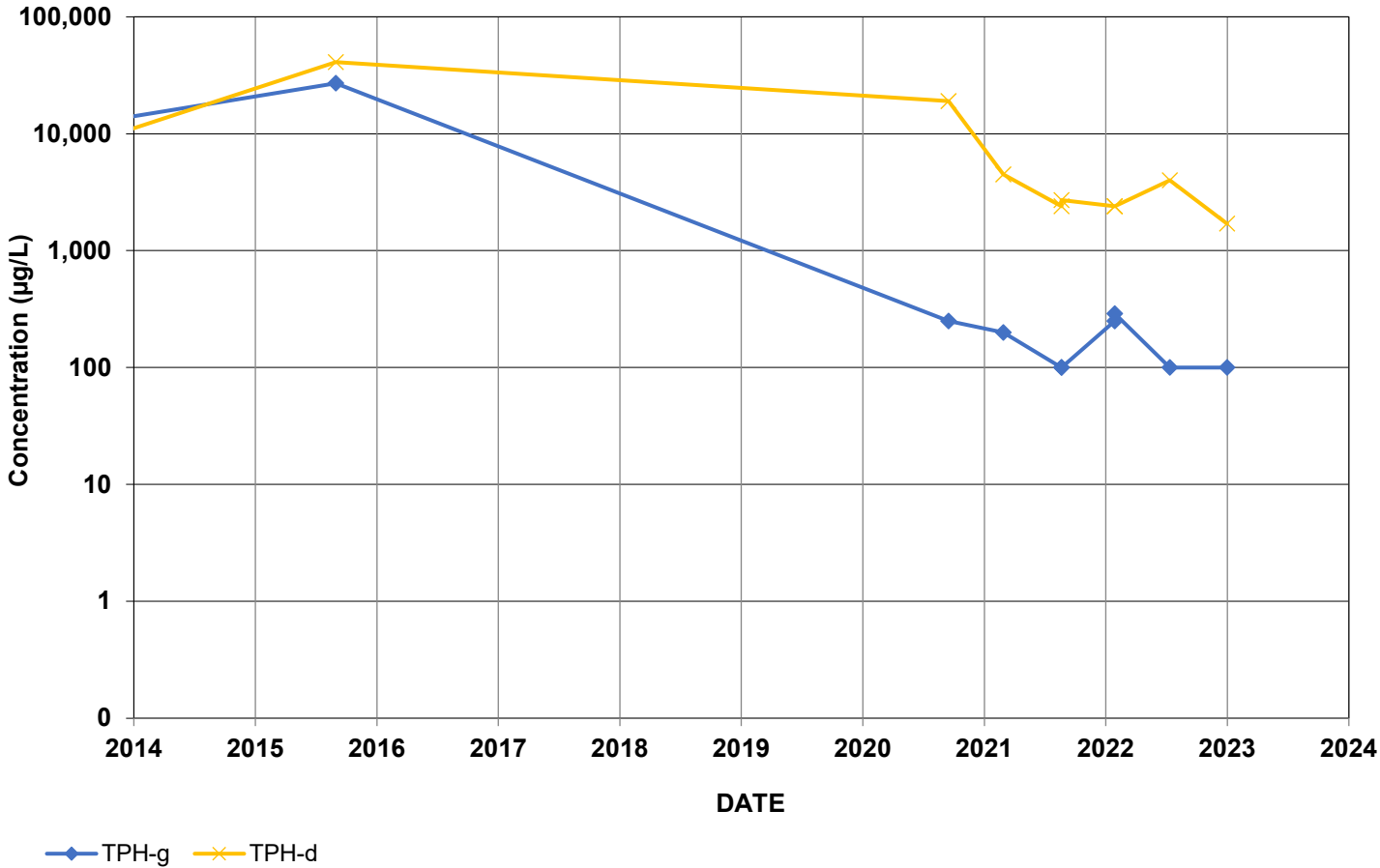
GMW-7



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-39 (9 feet)

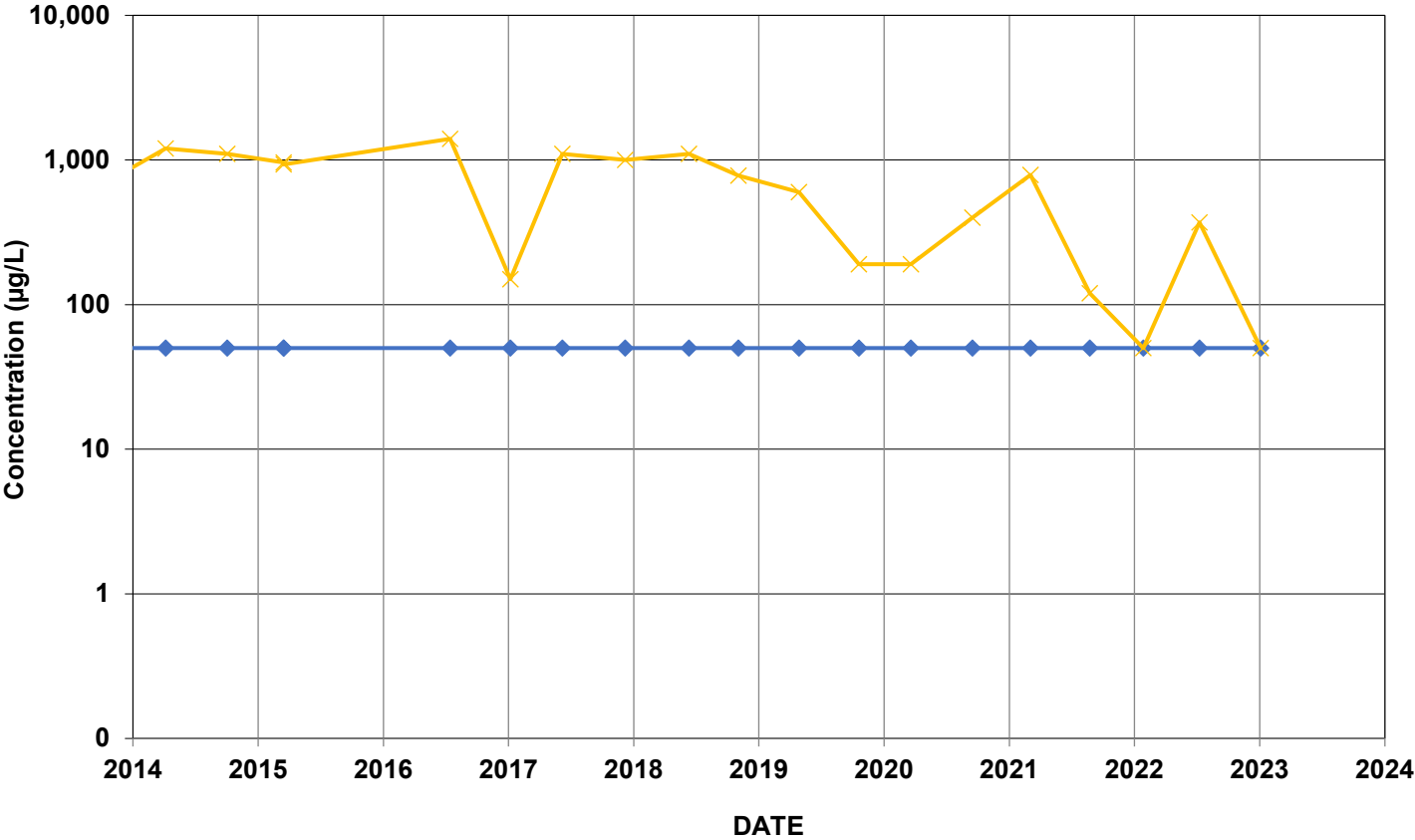
GMW-10



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-38 (12 feet)

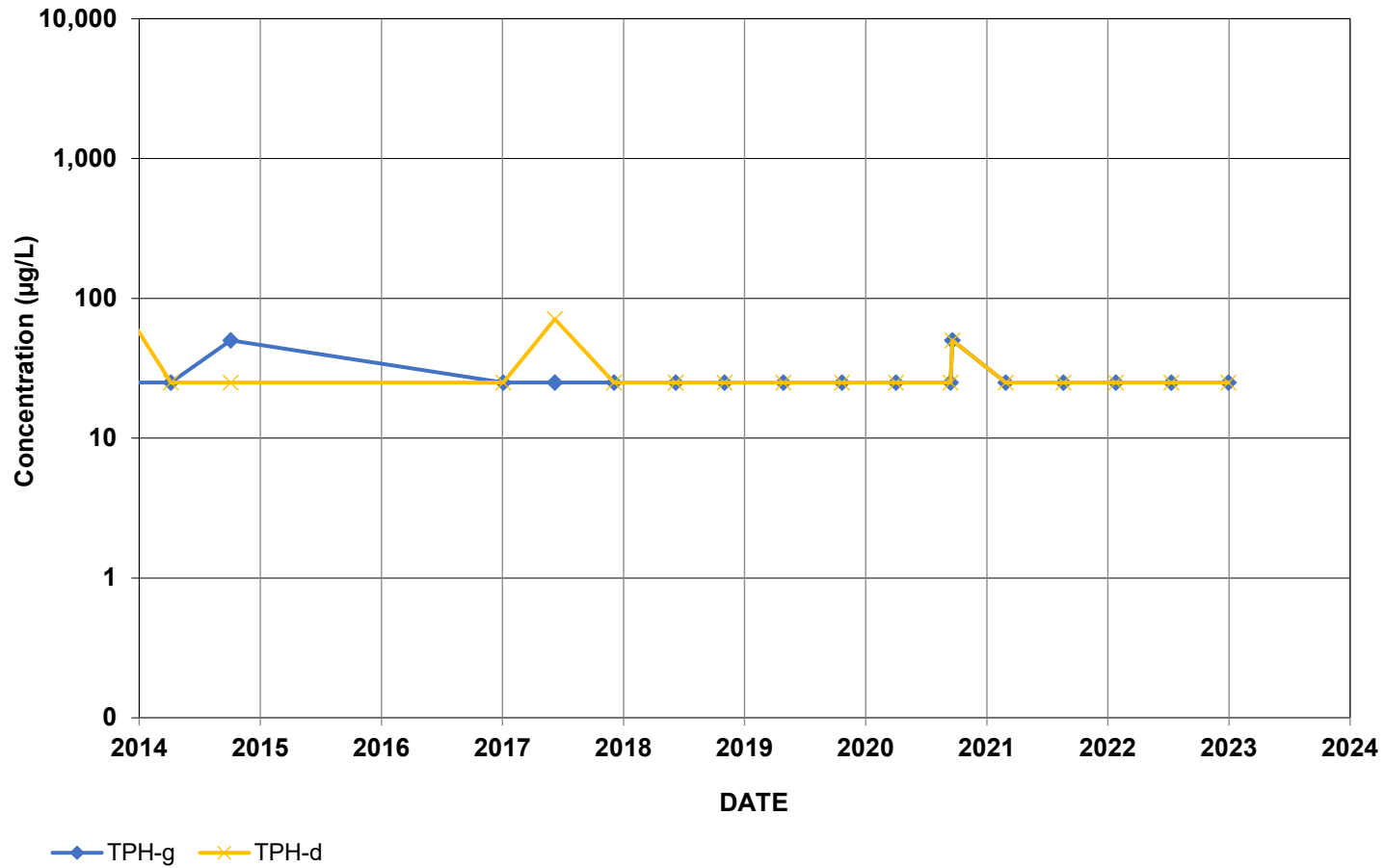
GMW-12



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-17 (18 feet)

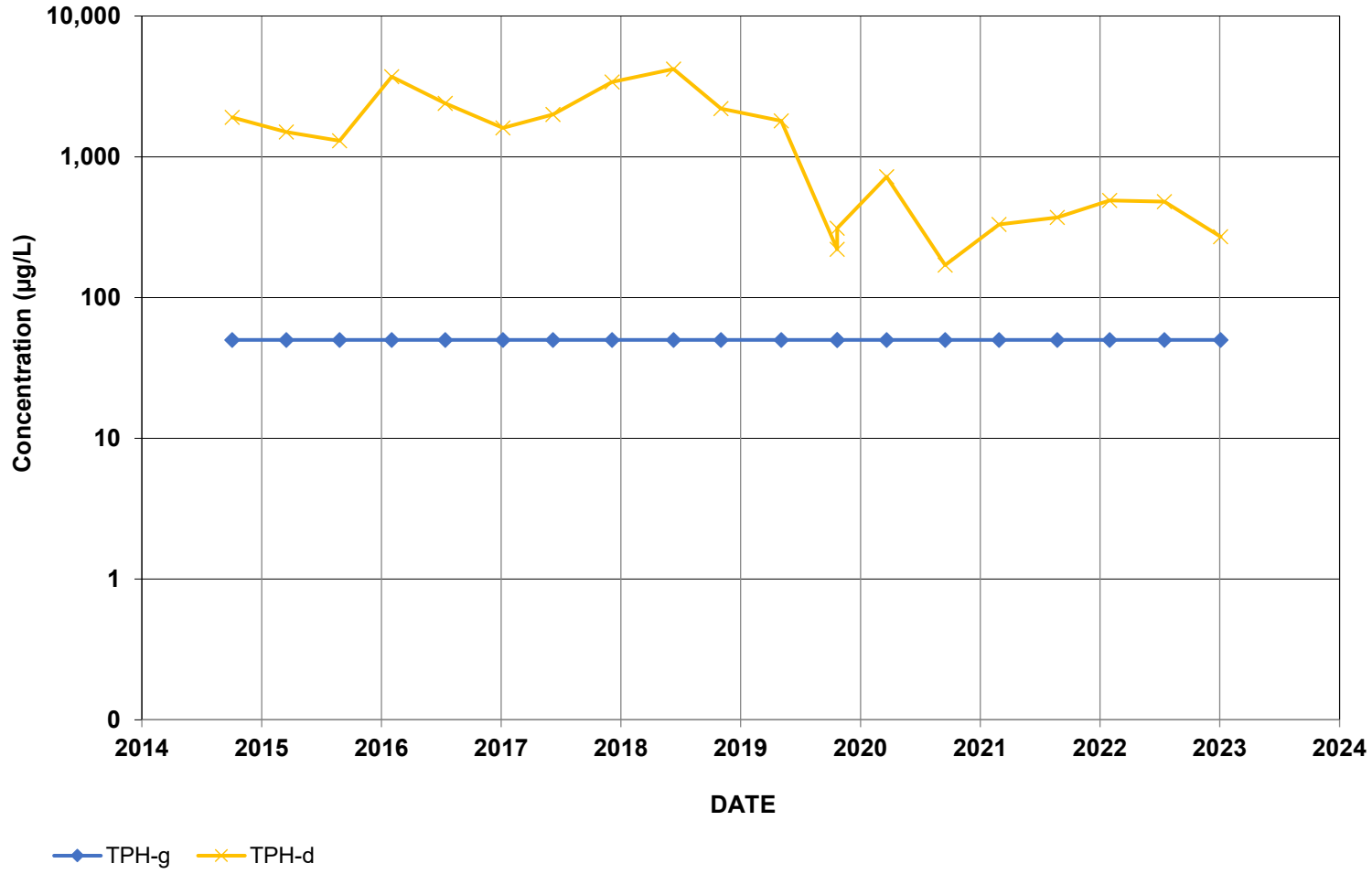
GMW-14R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-8 (>50 feet)

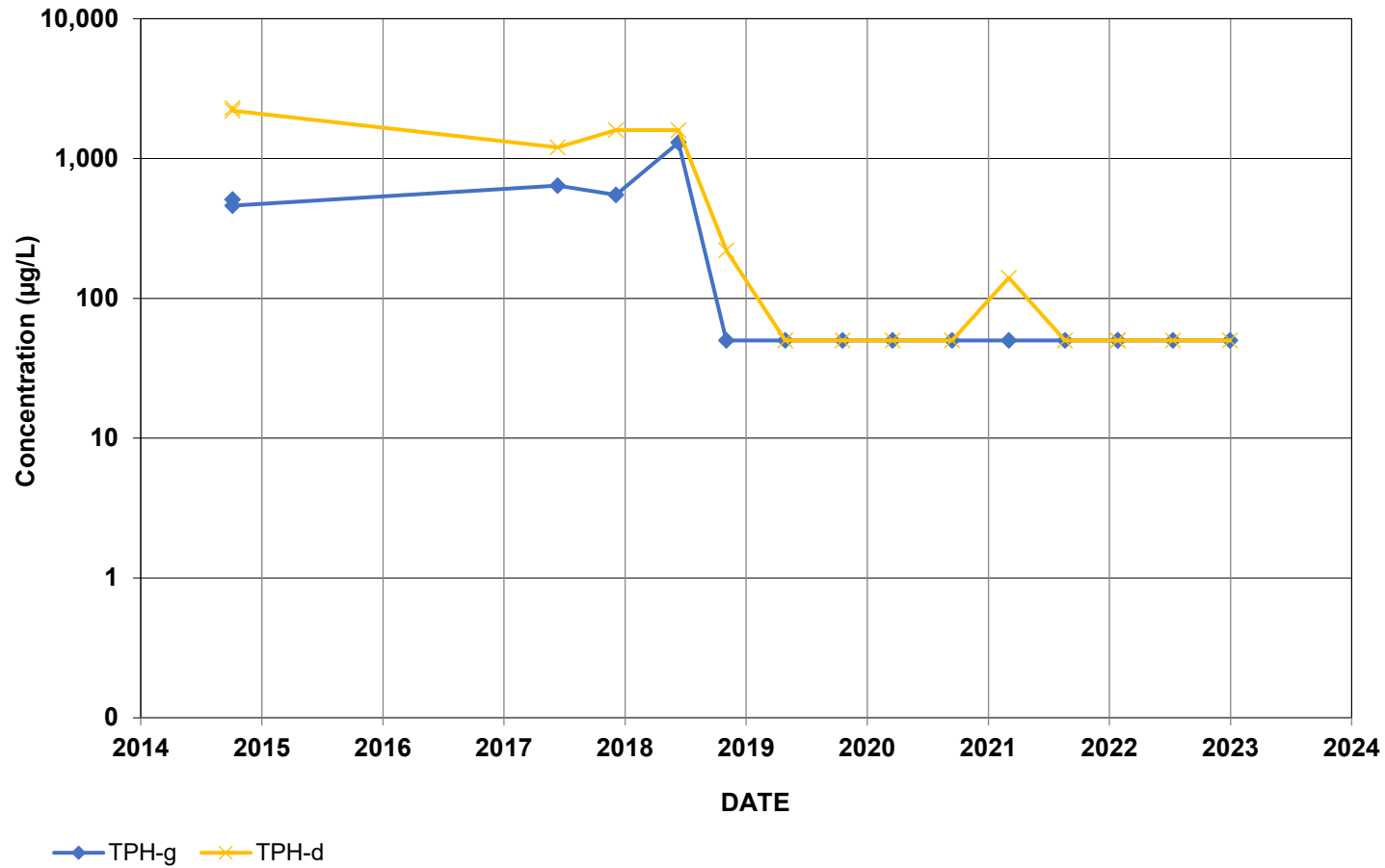
GMW-15



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-24 (52.5 feet)

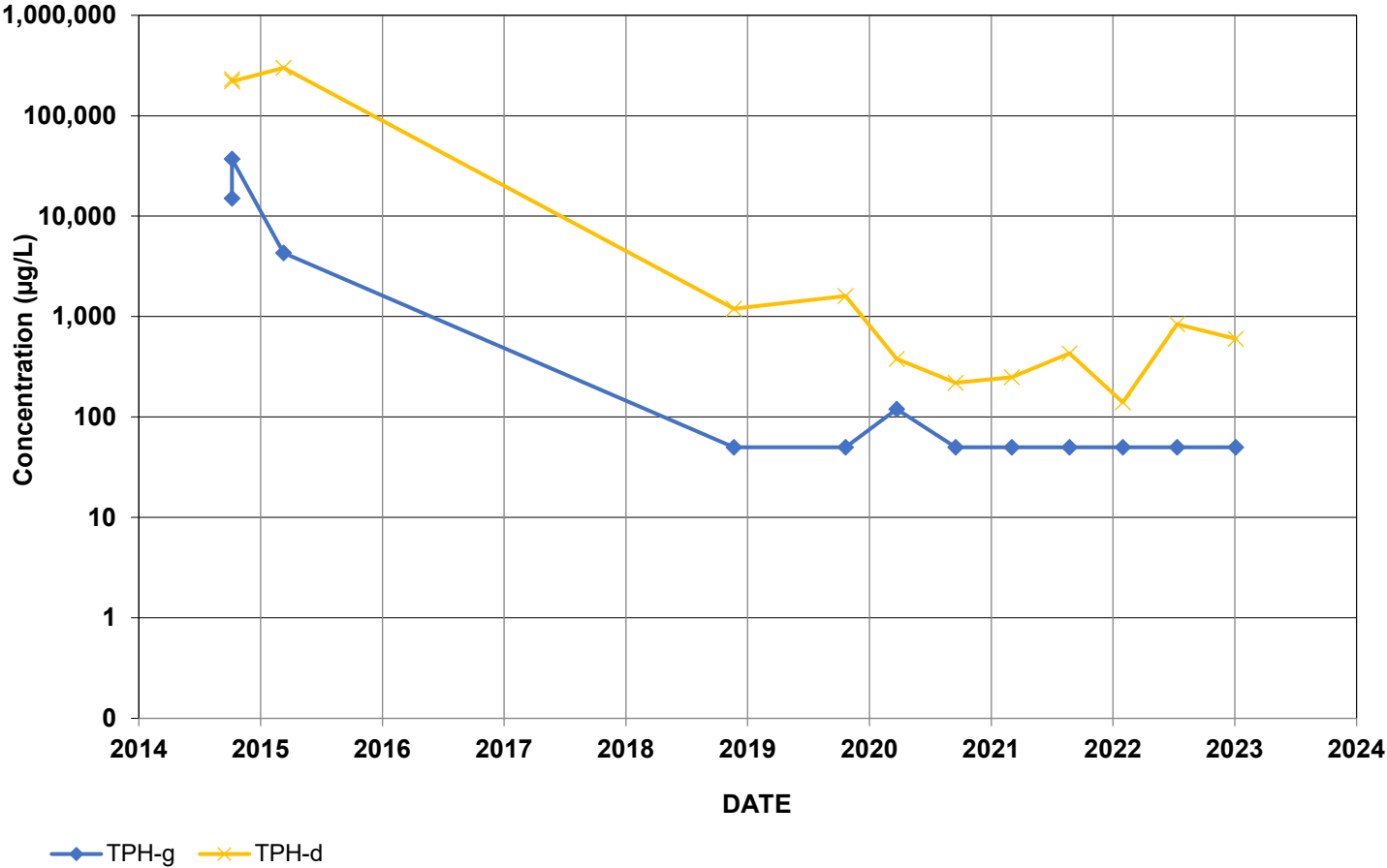
GMW-17R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-9 (52.5 feet)

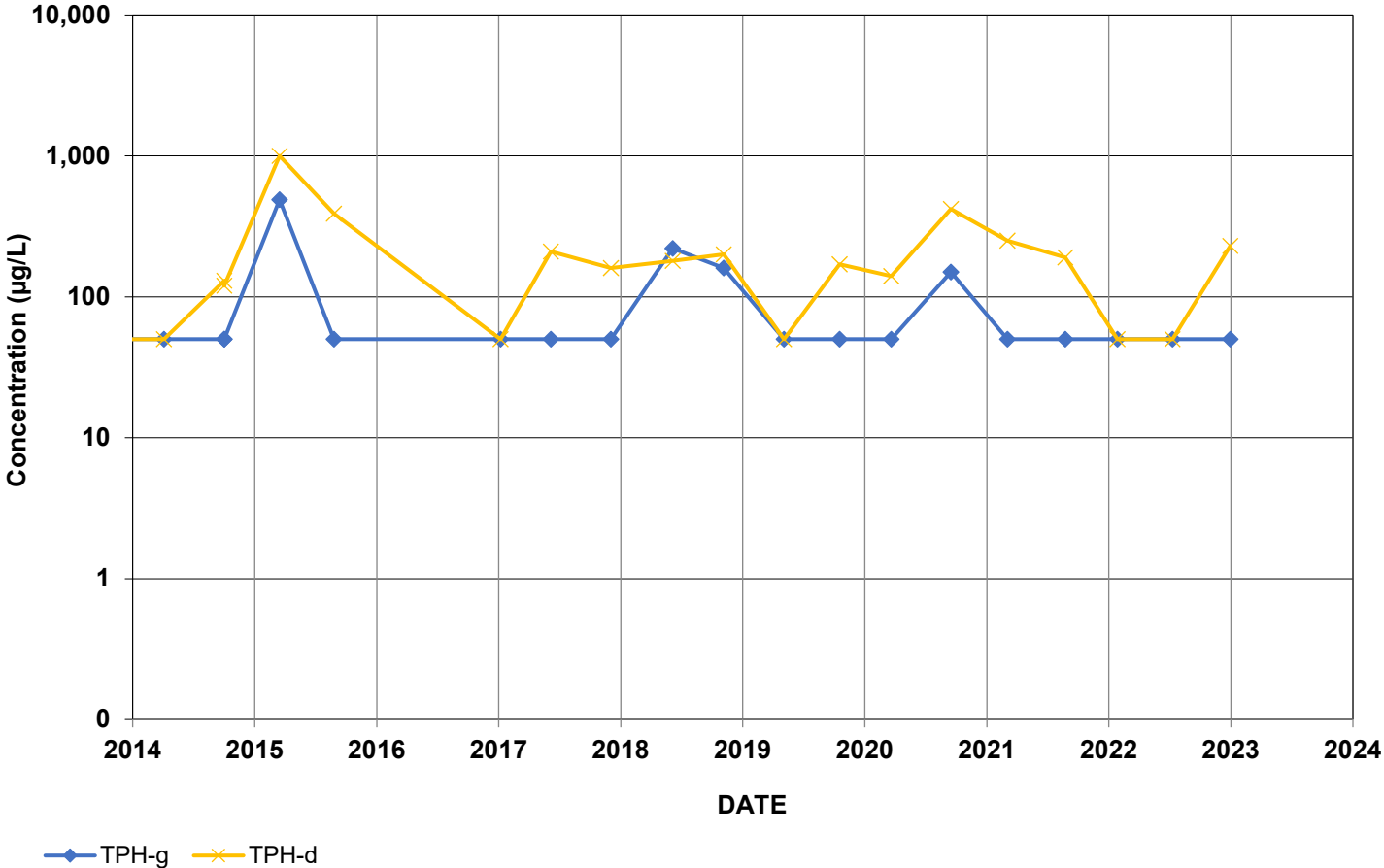
GMW-18



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-36 (20 feet), TFB-14 (74 feet)

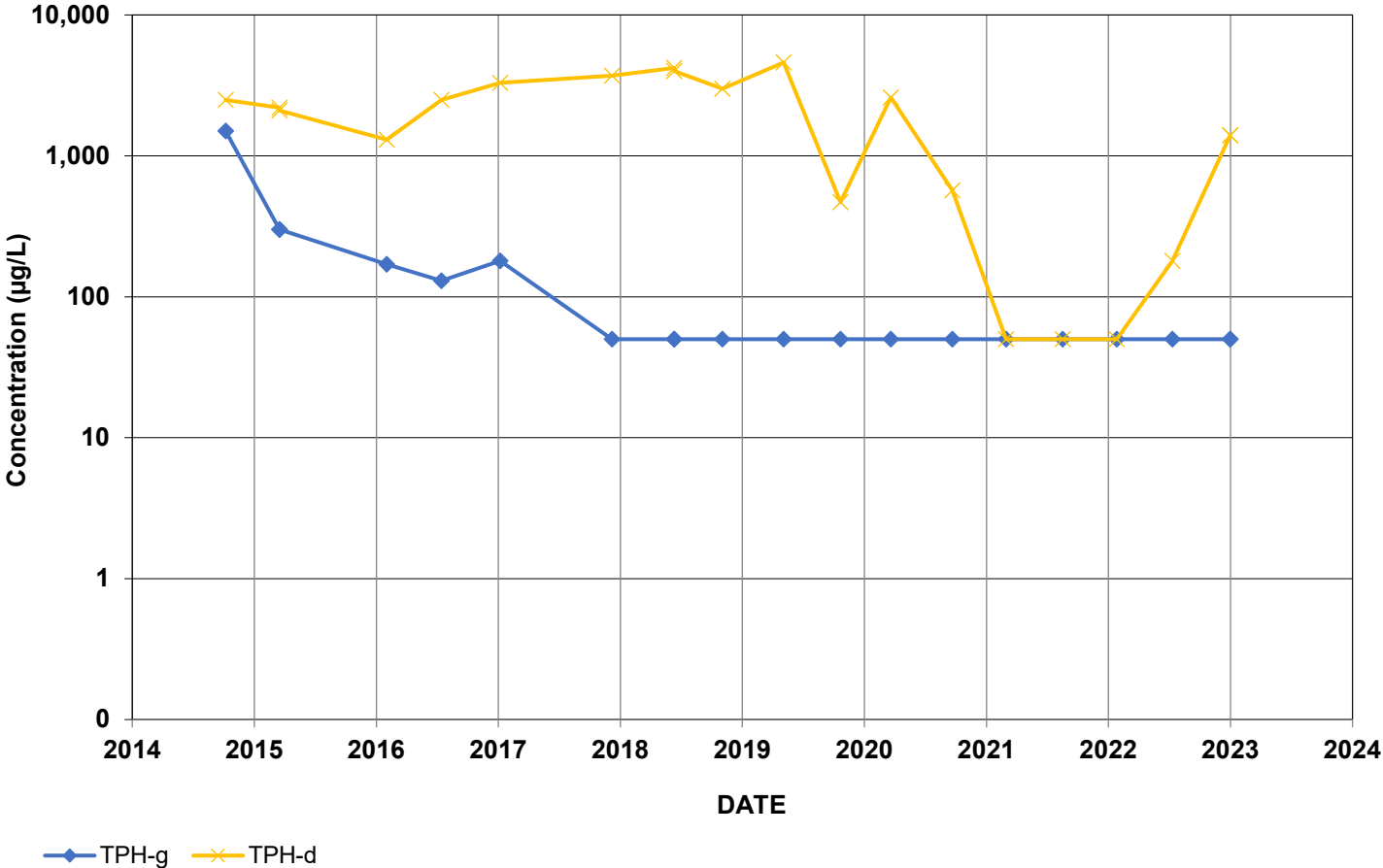
GMW-19



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-5 (18 feet)

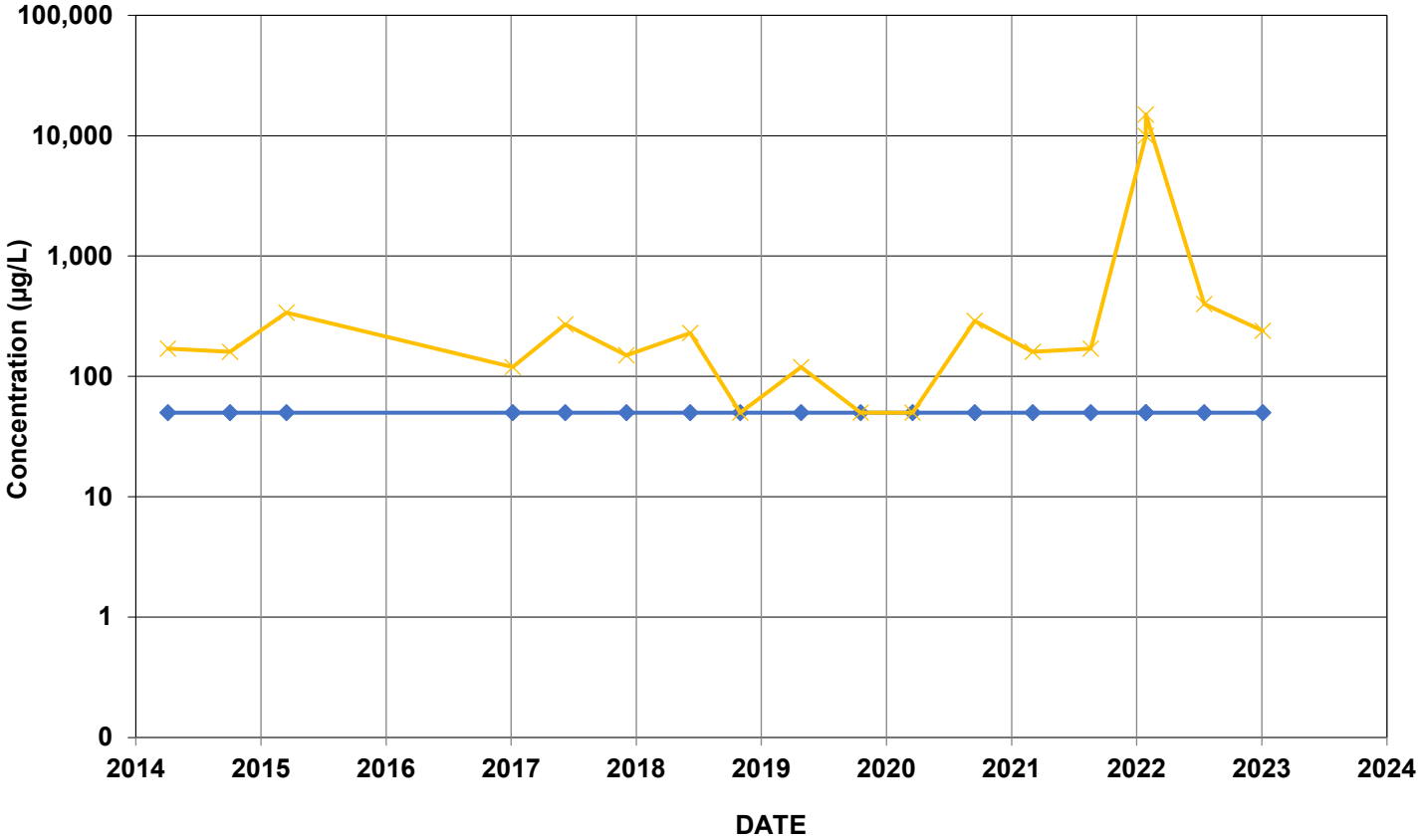
GMW-21



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-40 (13 feet)

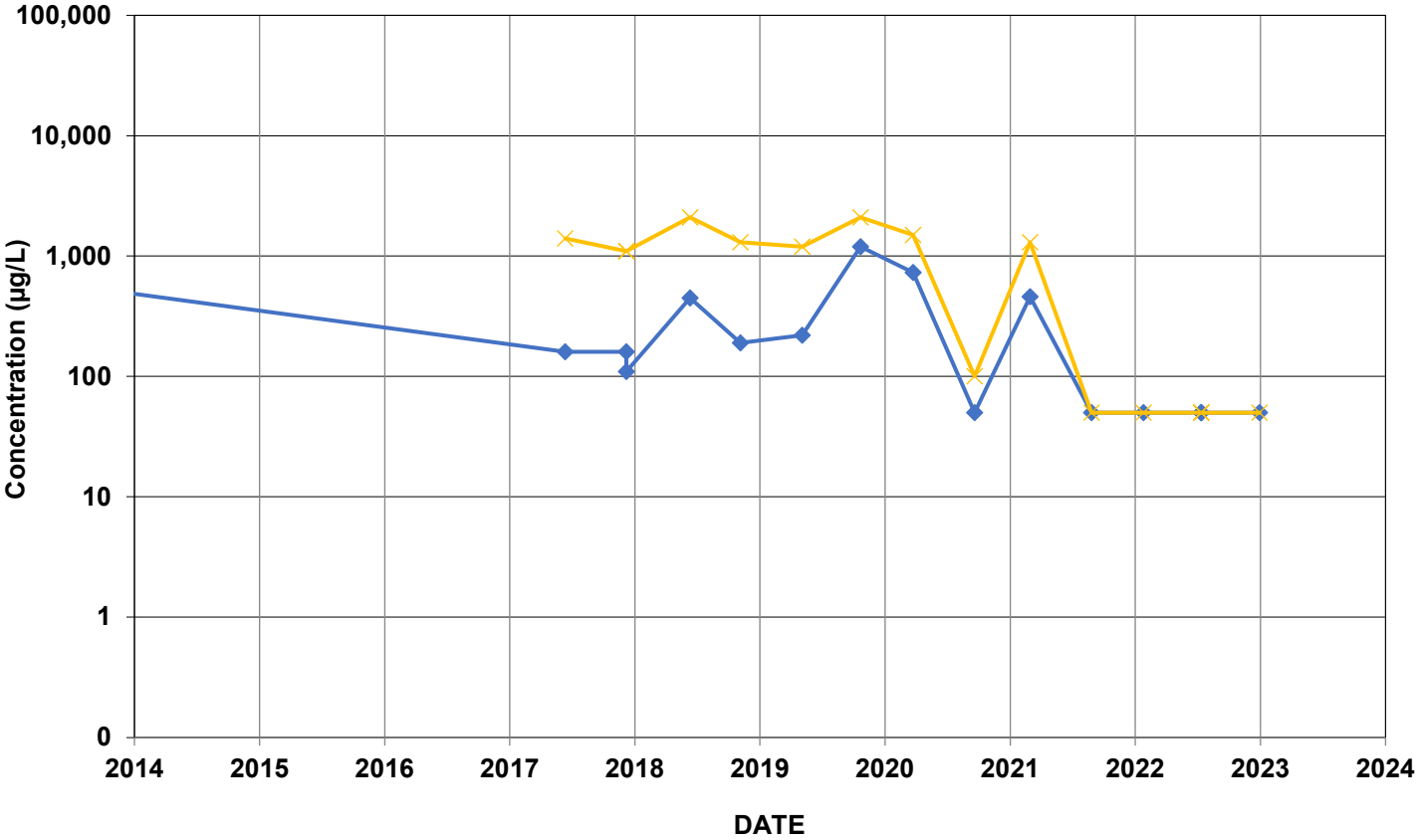
GMW-31



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-32 (31 feet)

GMW-35R

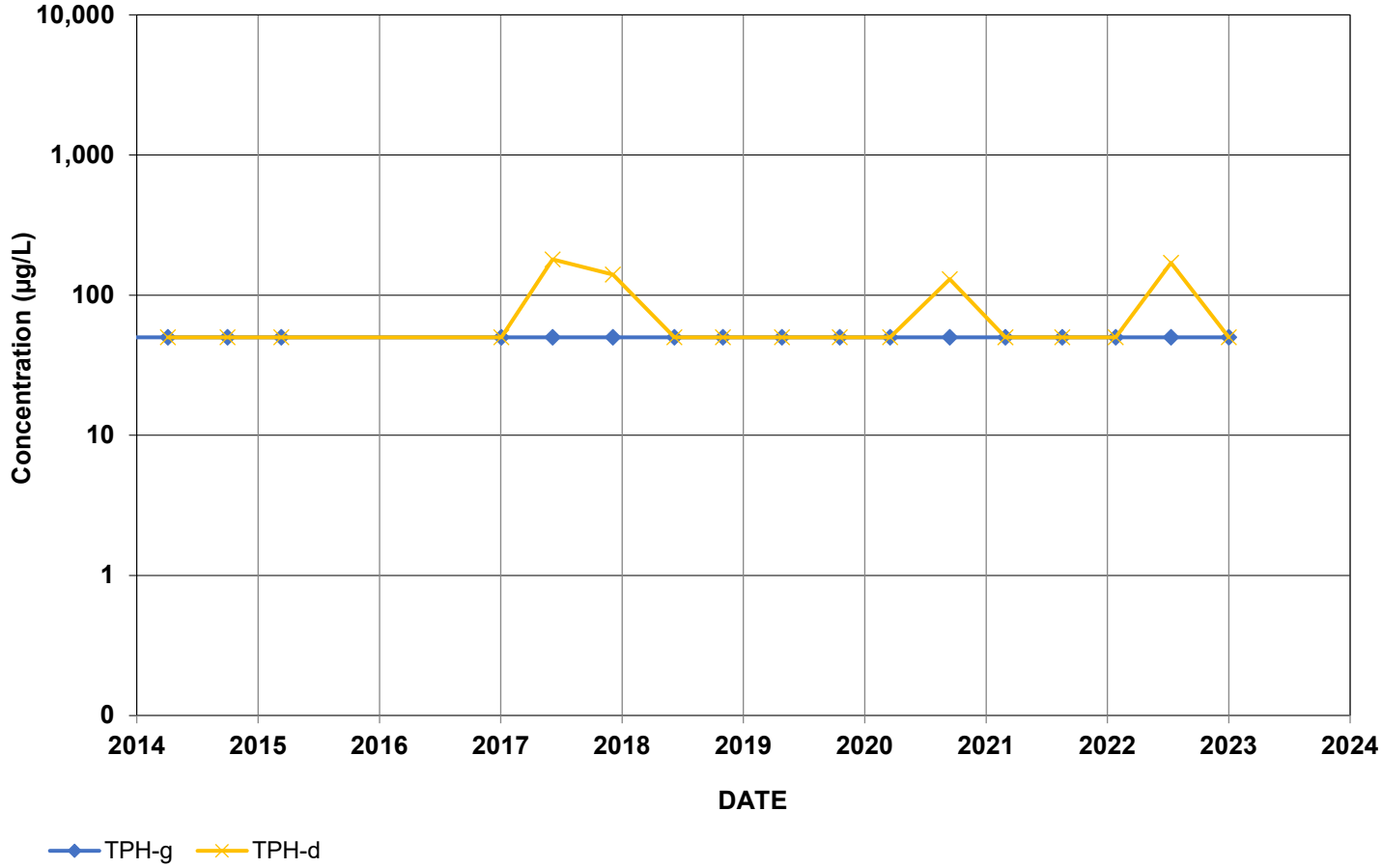


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-25 (22 feet)

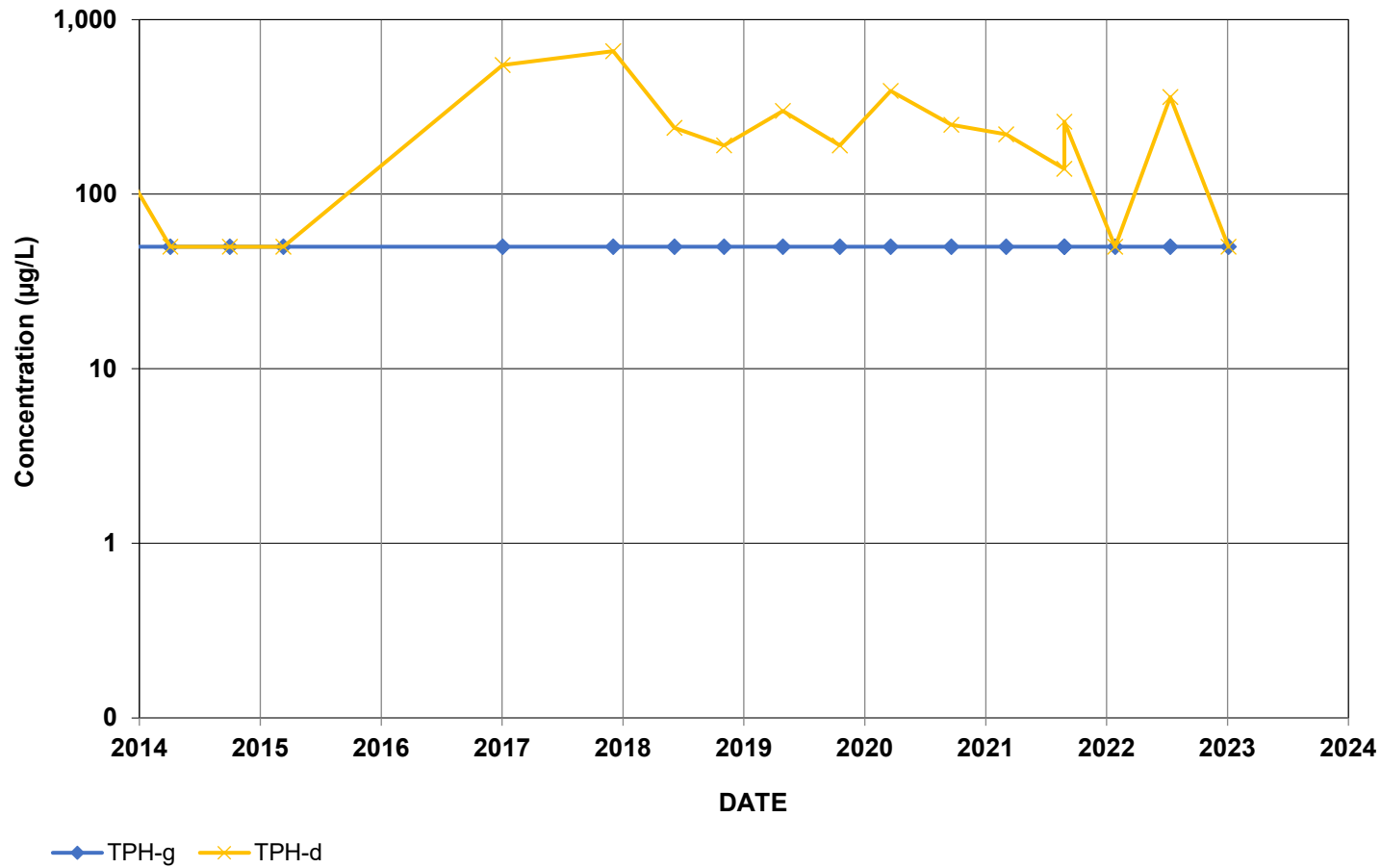
GMW-42



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-34 (21 feet), TFB-11 (35 feet)

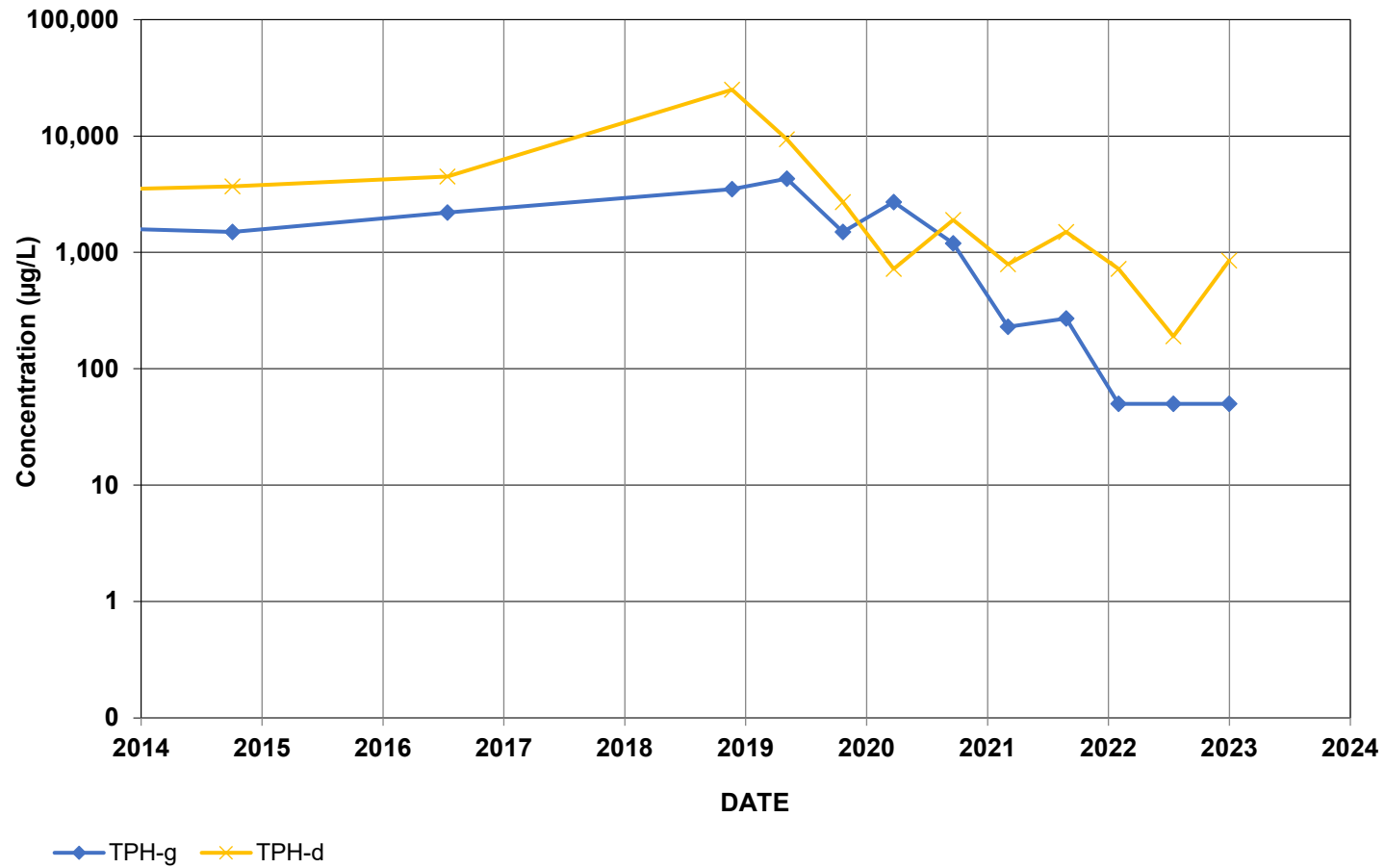
GMW-43



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: TFB-27 (4 feet), TFB-31 (70 feet)

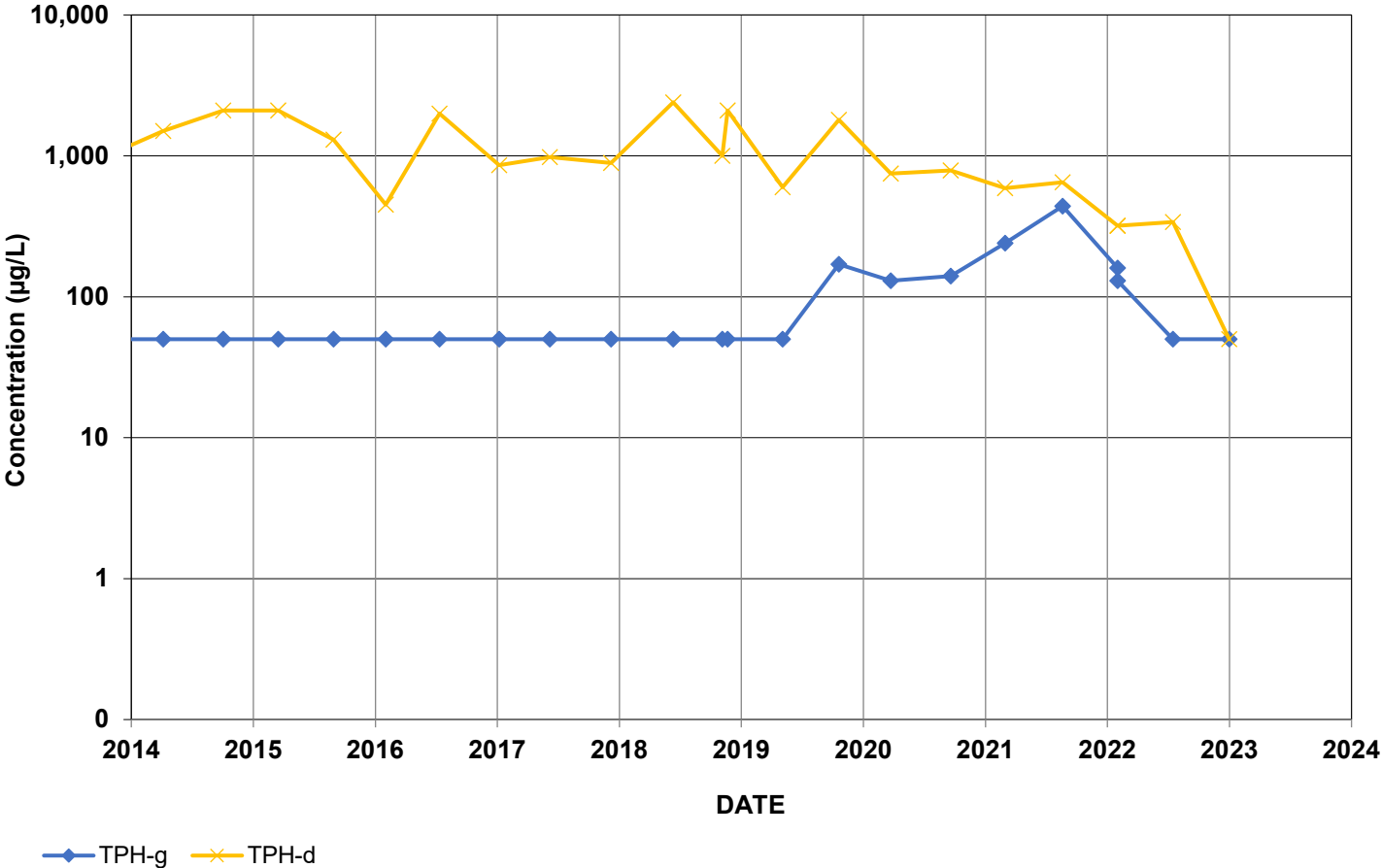
GMW-45



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-2 (10 feet), RW-1 (92 feet)

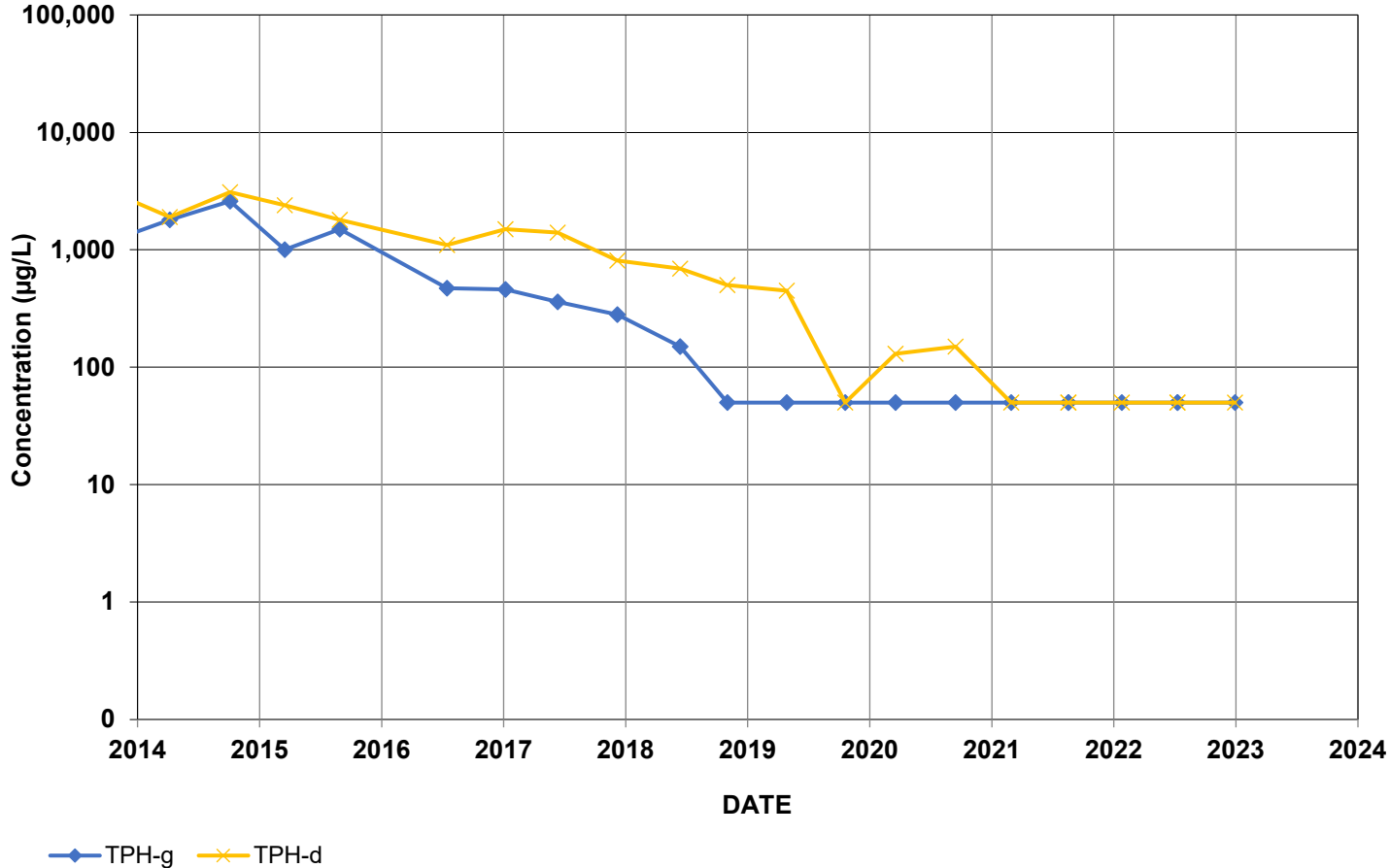
GMW-47



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-38 (18 feet)

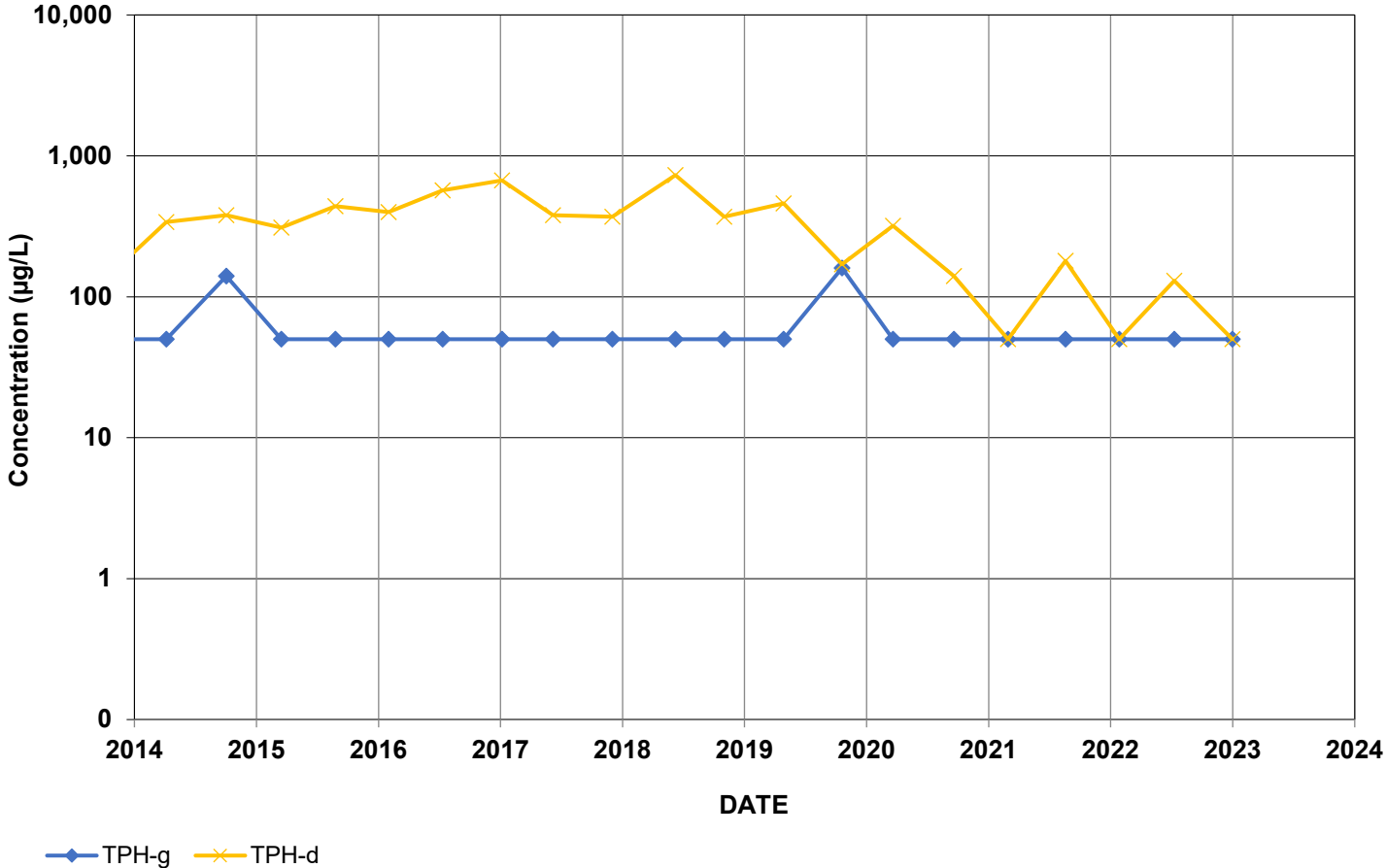
GMW-48



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-6 (70 feet)

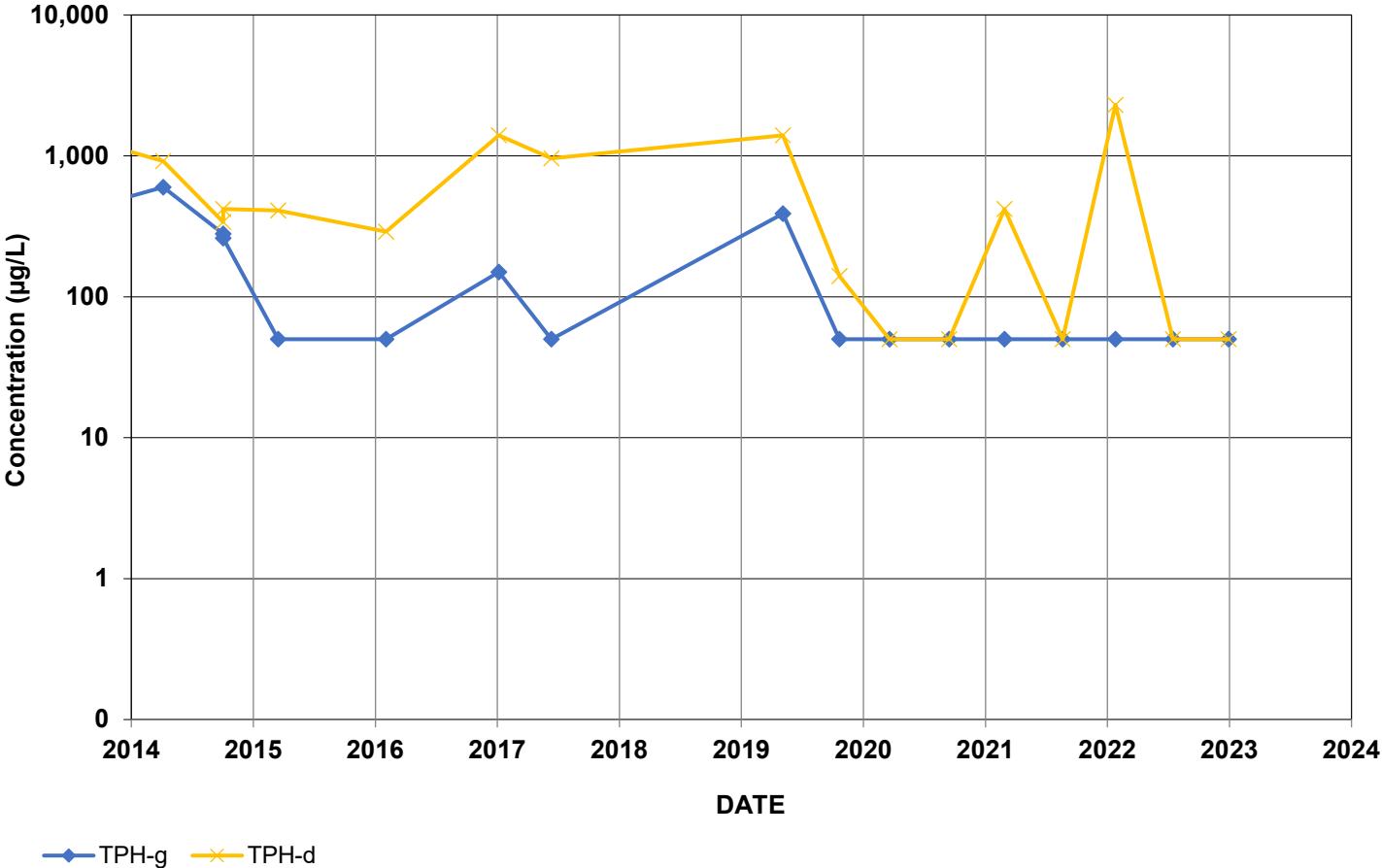
GMW-57



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: RW-8 (9 feet)

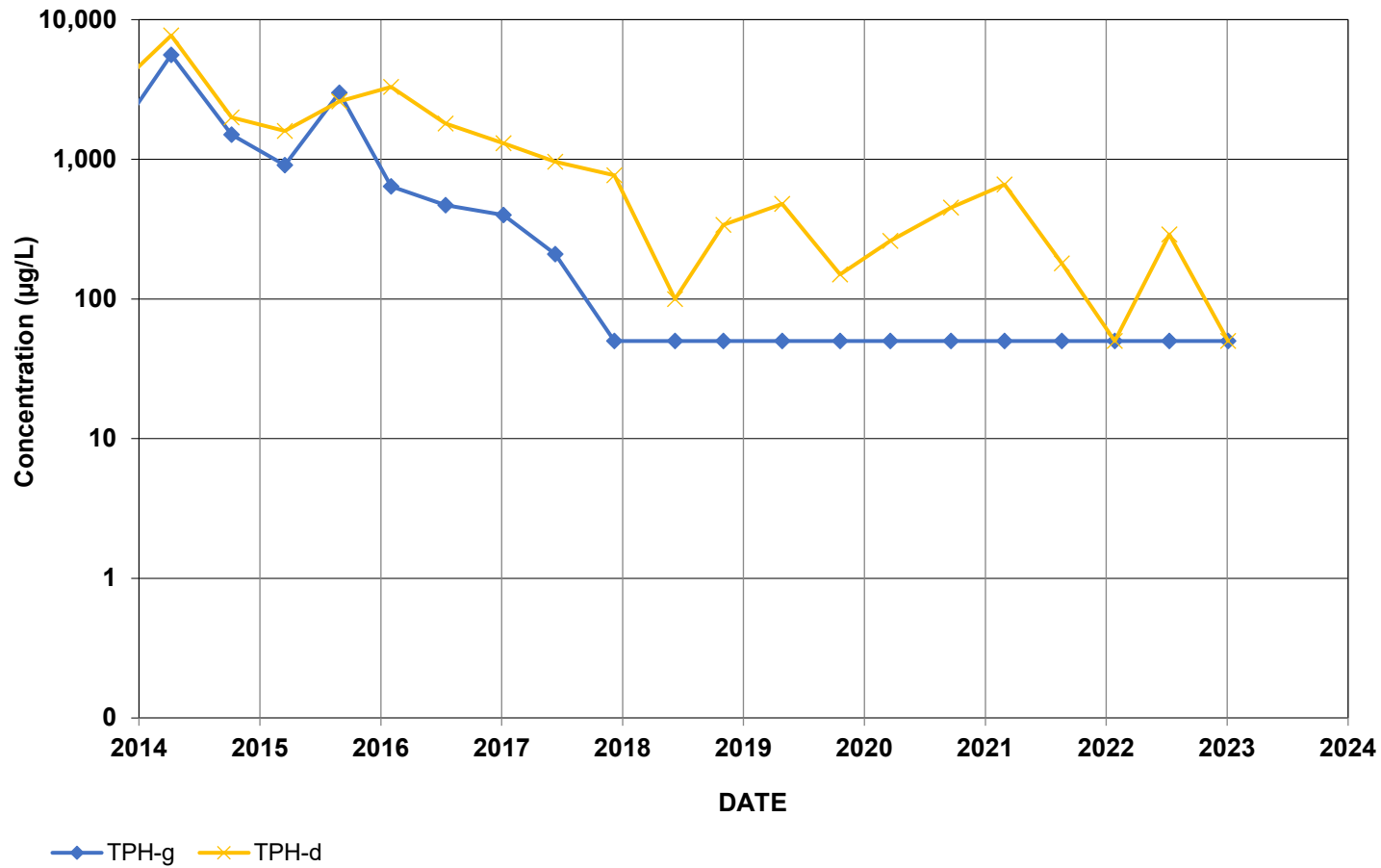
GMW-58



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-4 (8 feet), RW-10 (26 feet)

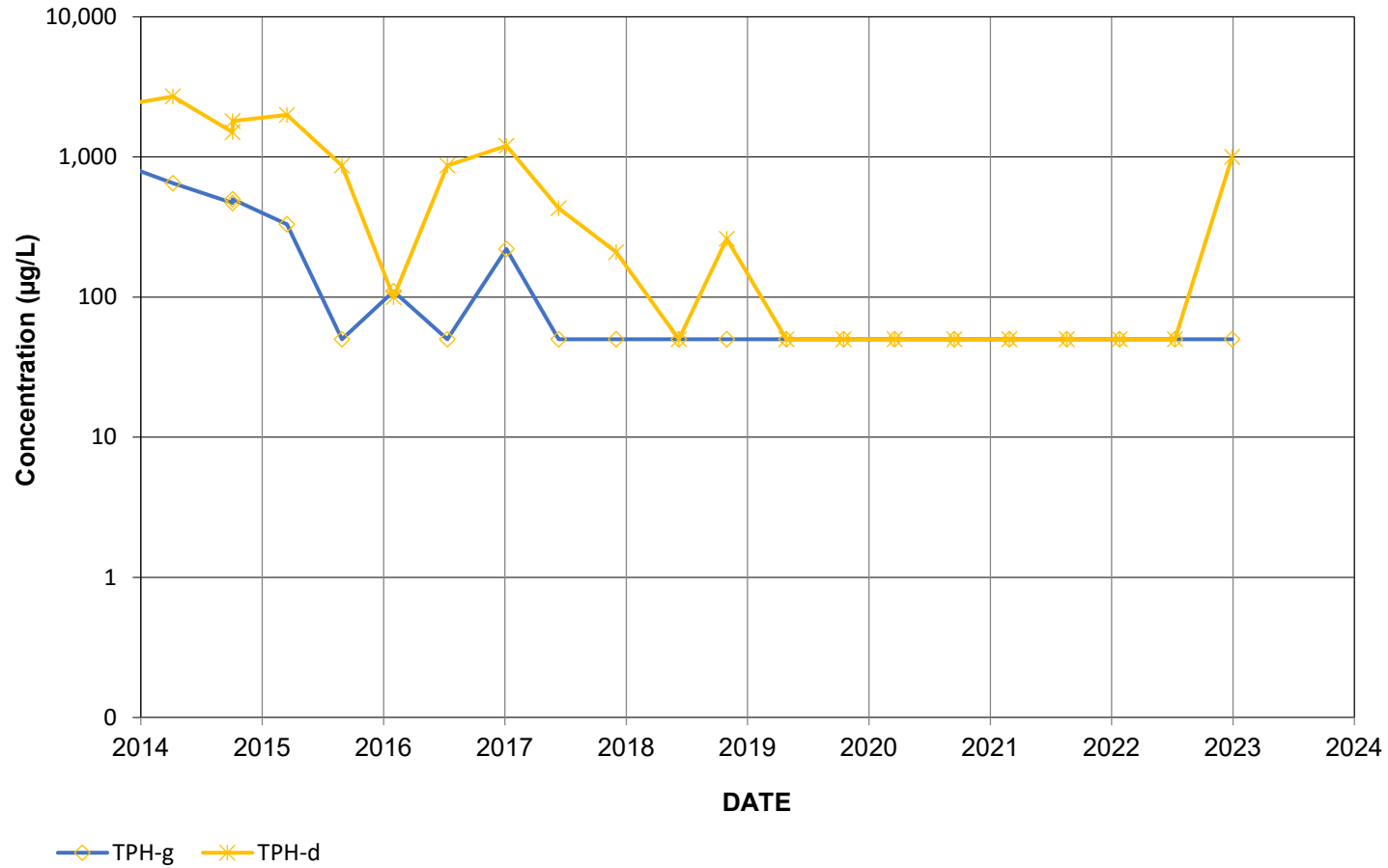
GMW-59



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-10 (17.5 feet)

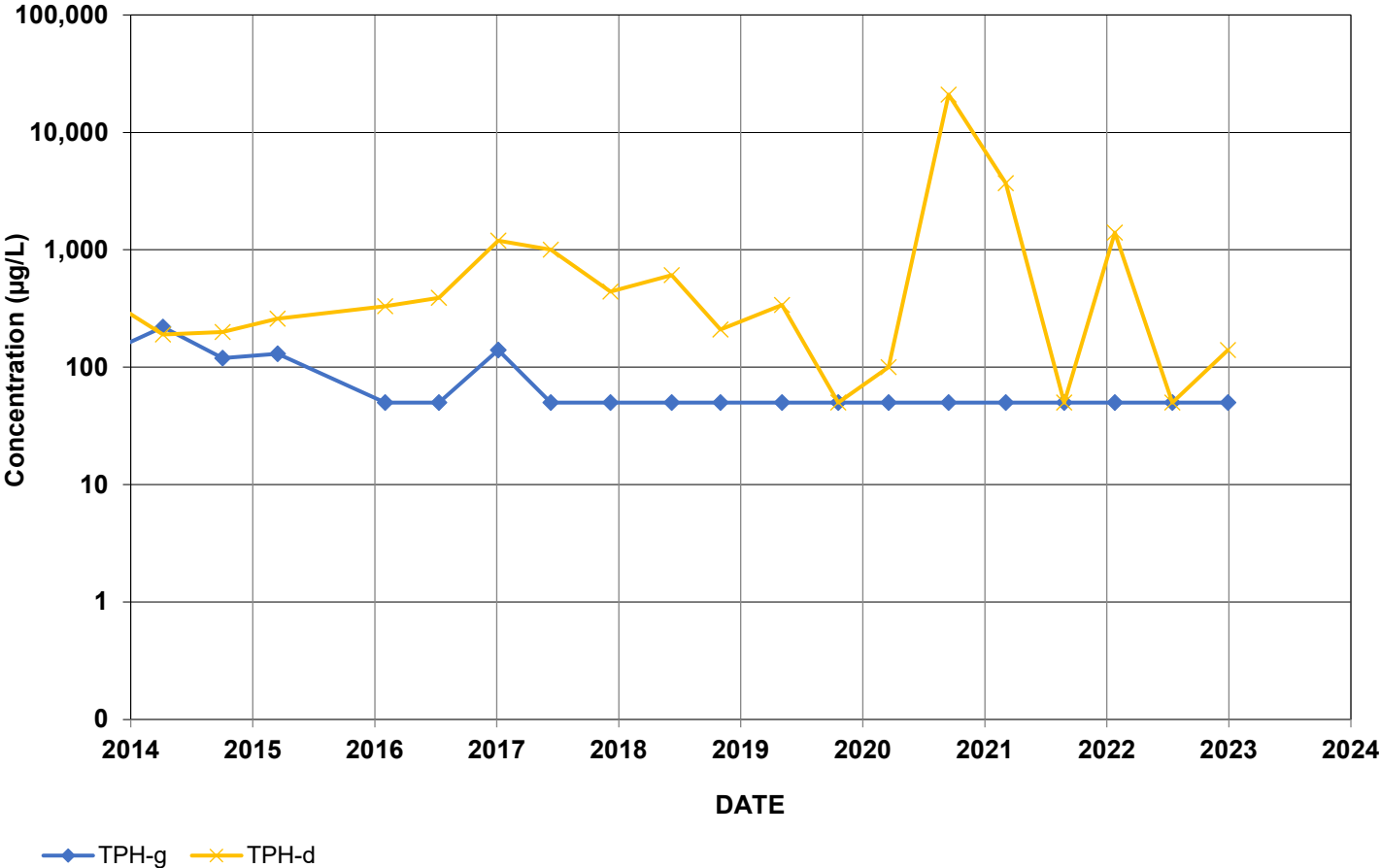
GMW-60



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-4 (12 feet), BSP-13 (18 feet)

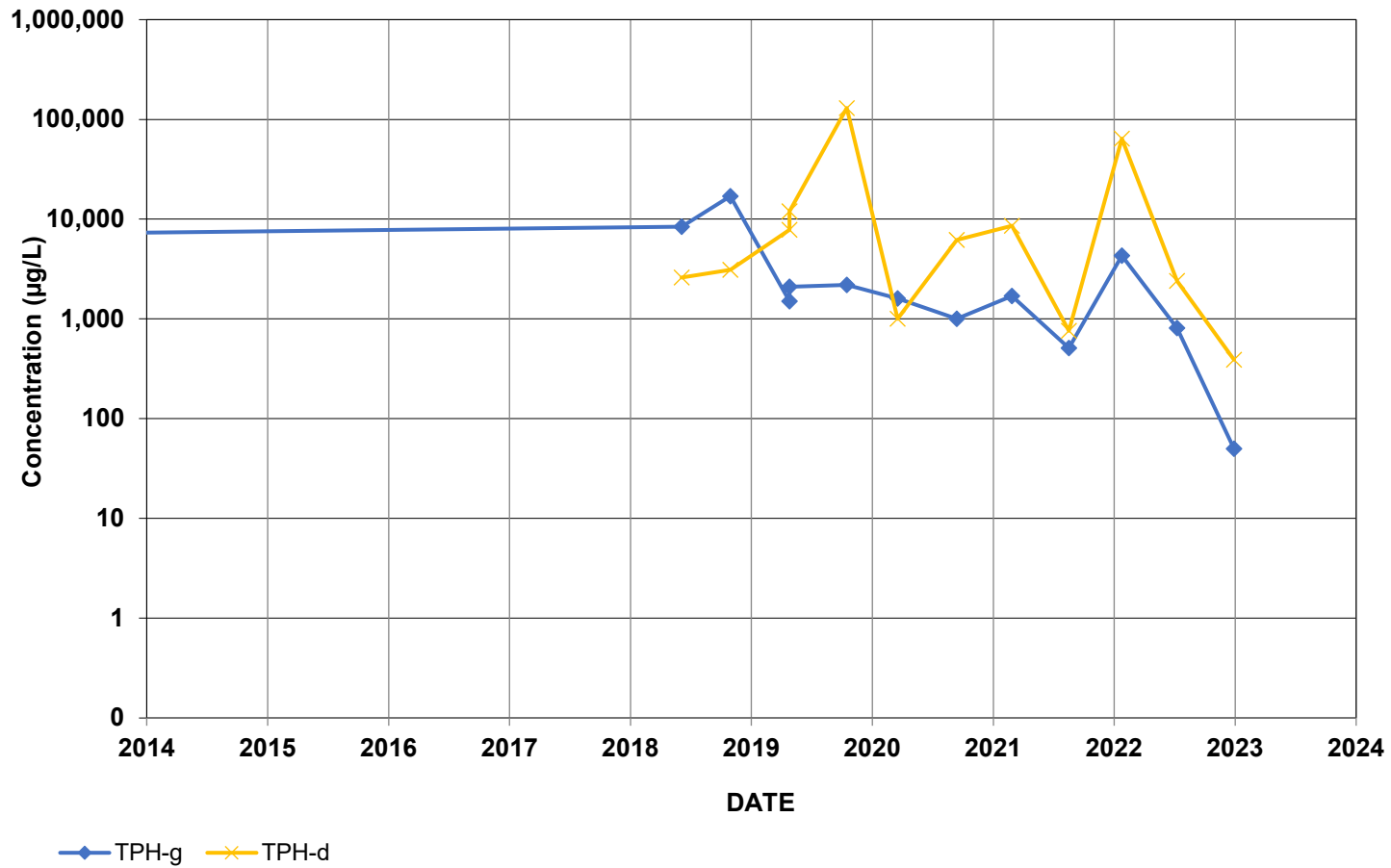
GMW-61



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-3 (18 feet), RW-18 (49 feet)

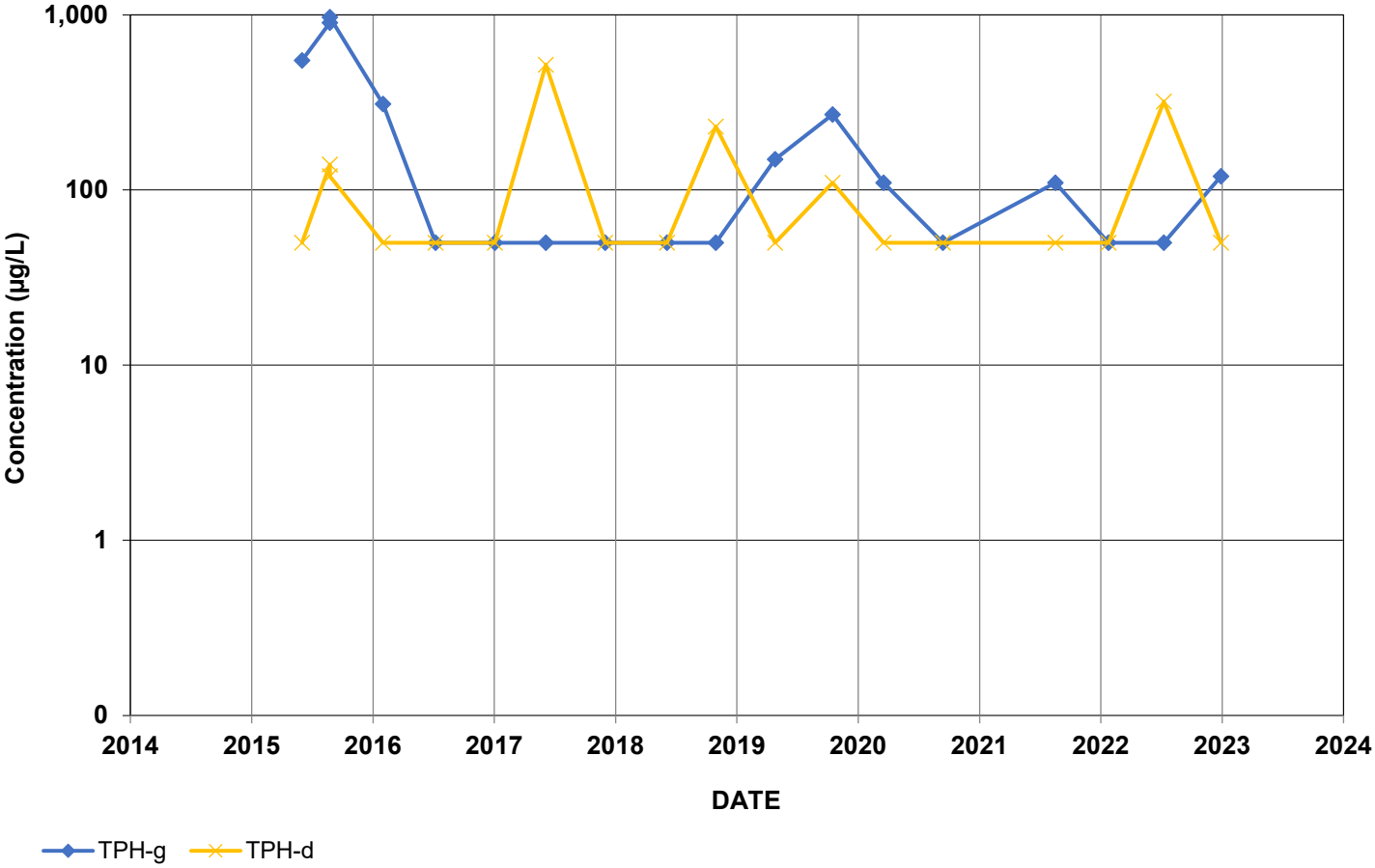
GMW-62



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: HAS-3 (88 feet)

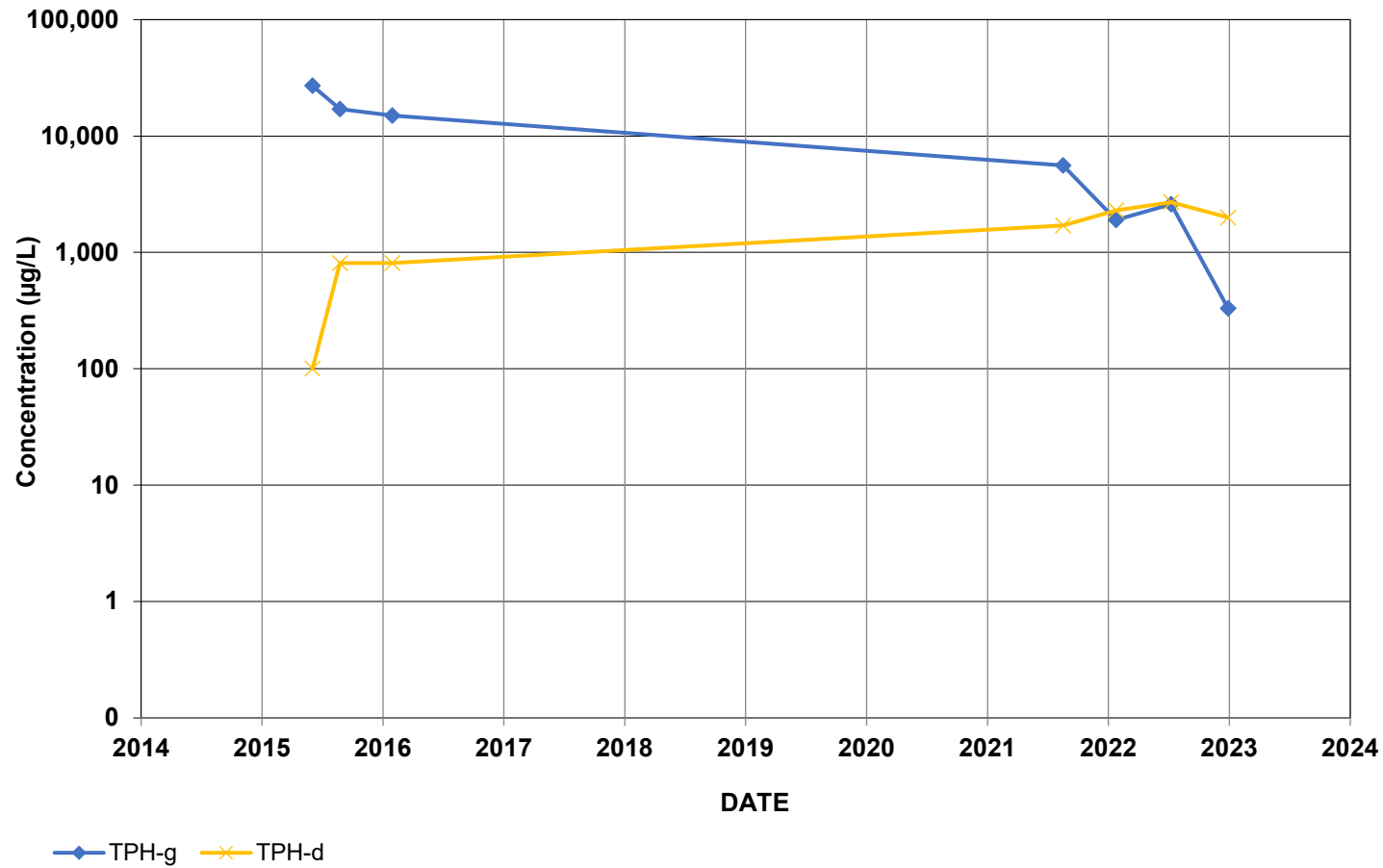
GMW-67



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: HAS-3 (9 feet)

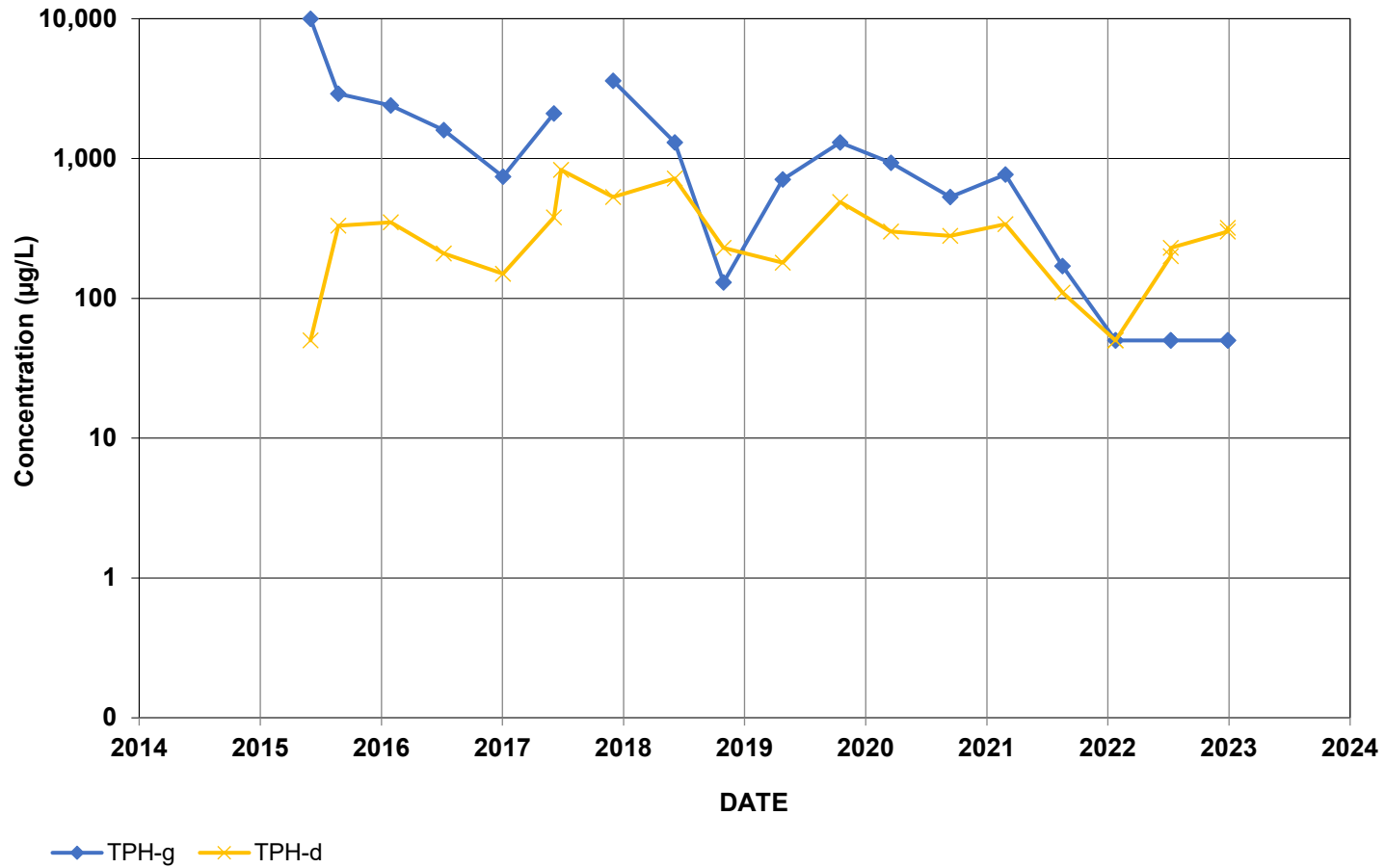
GMW-68



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: HAS-4 (35 feet)

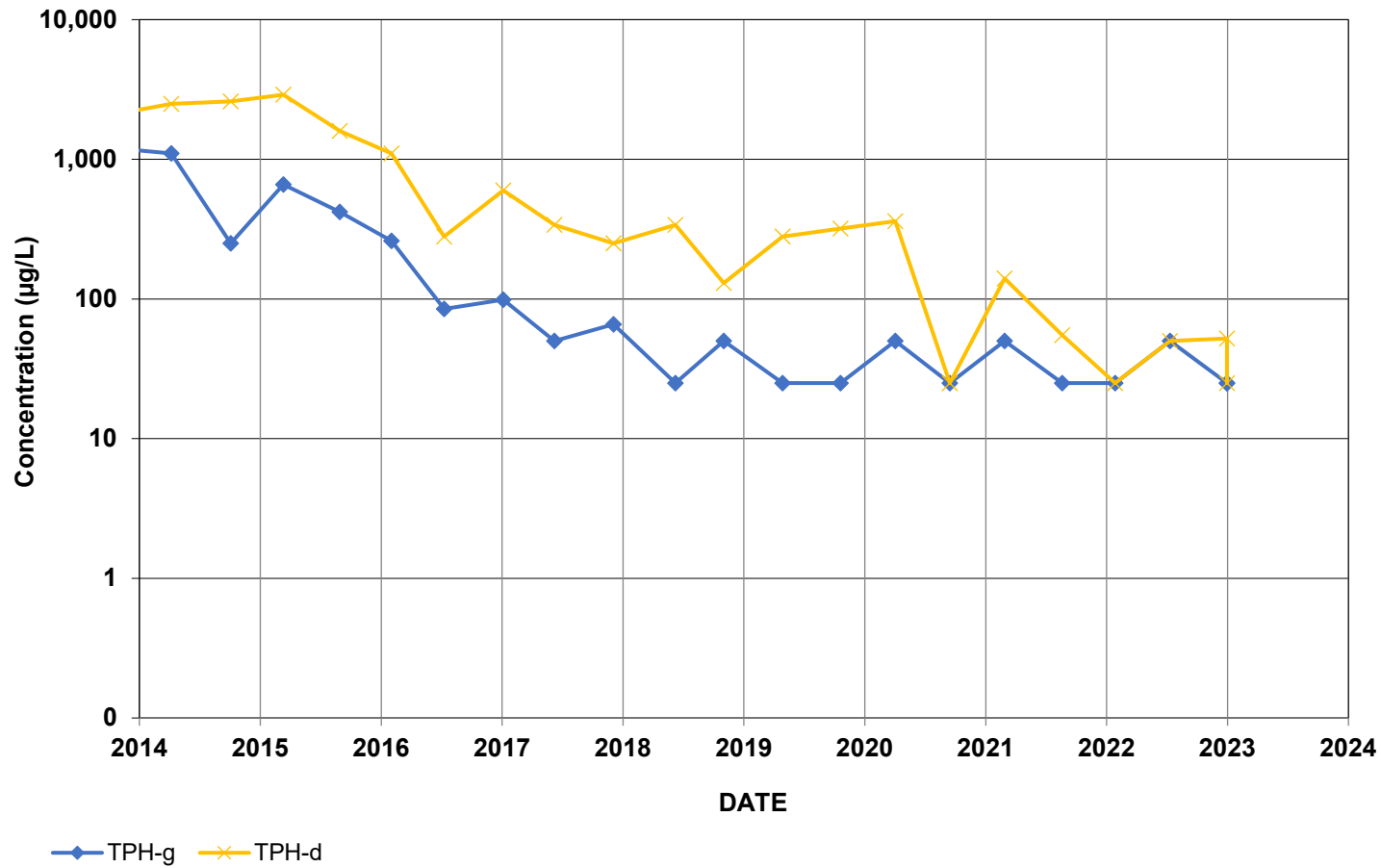
GMW-69



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-19 (70 feet), RW-32 (70 feet)

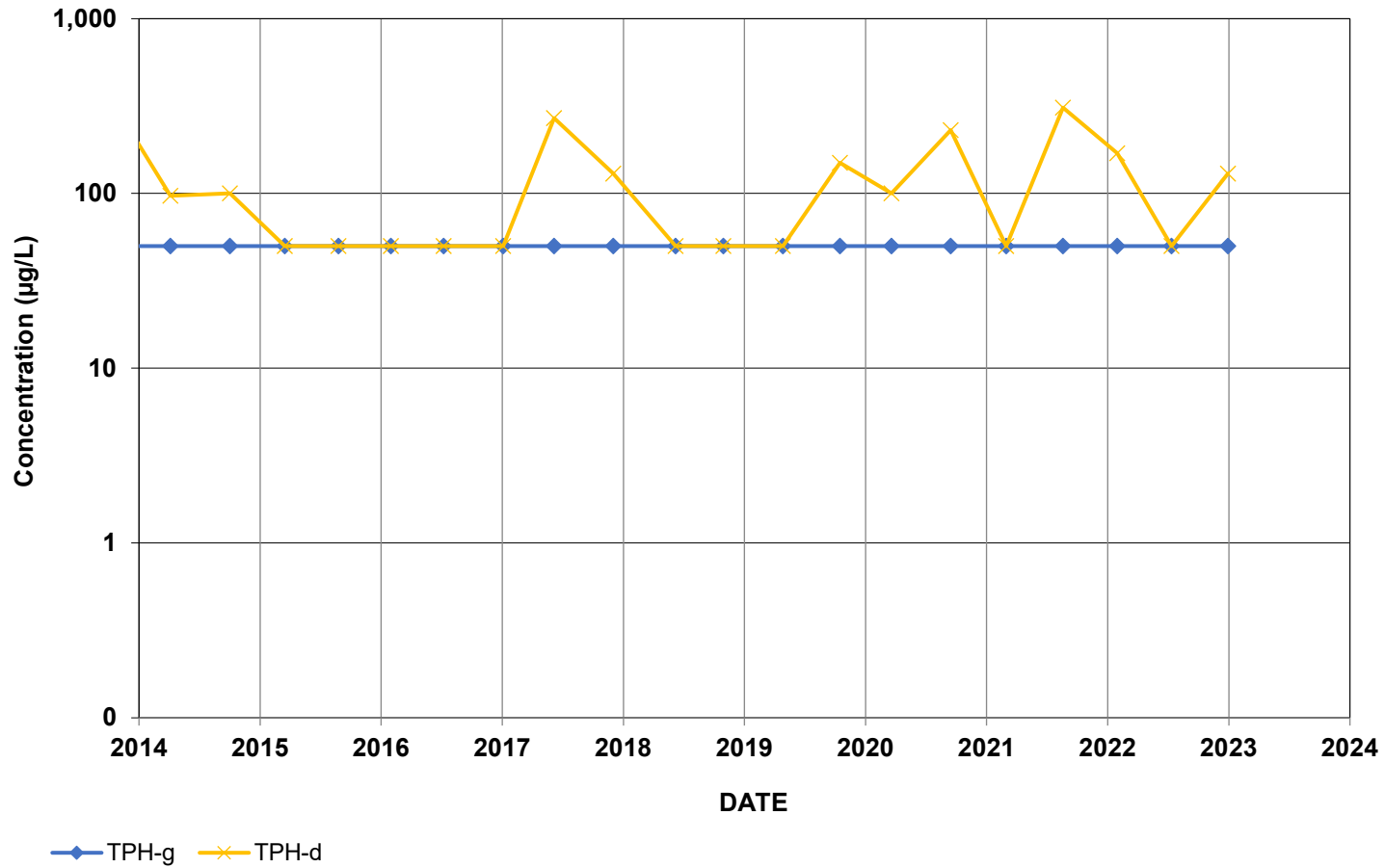
MW-9



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: HAS-1 (13 feet), RW-1 (151 feet)

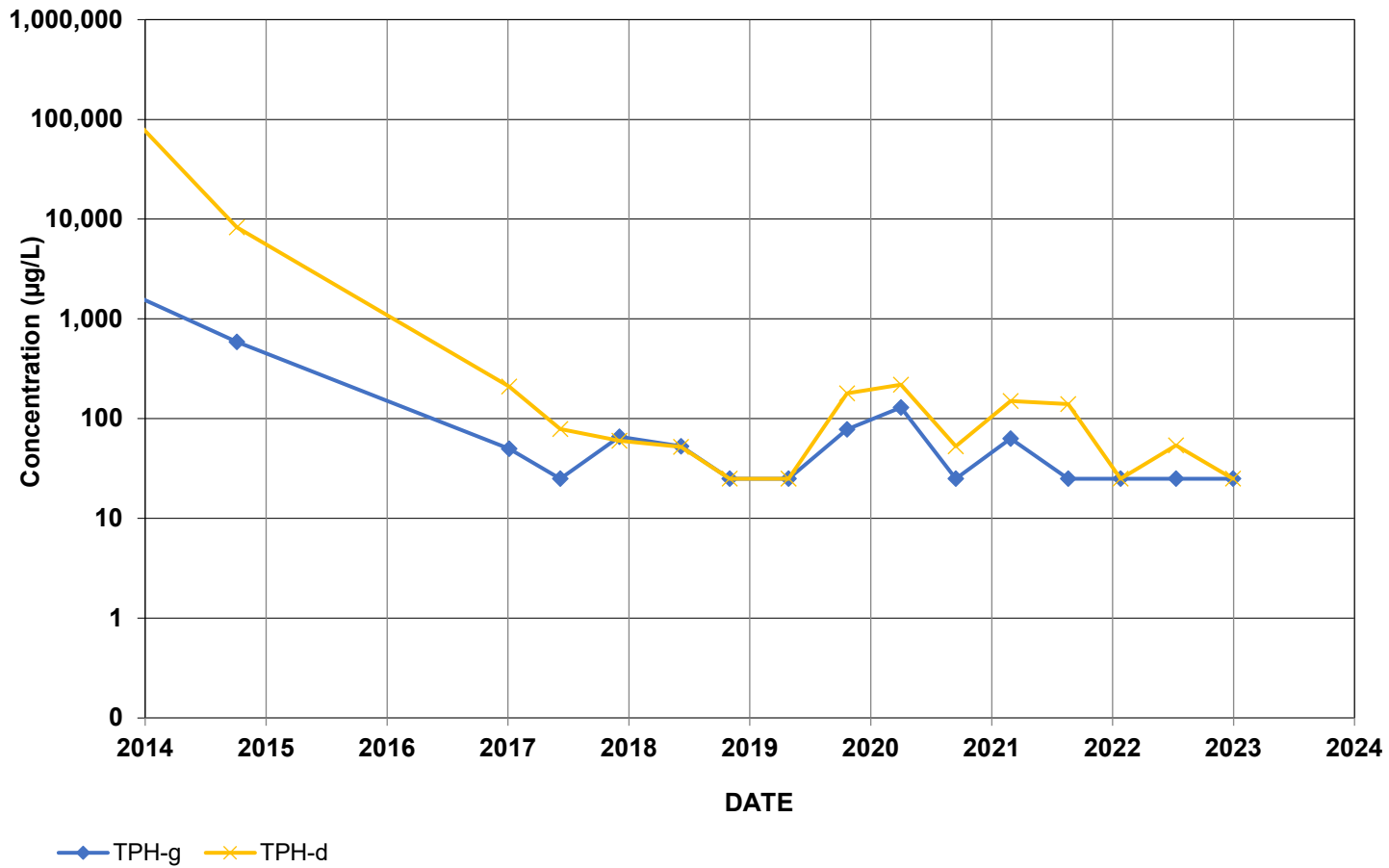
MW-13



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-15 (18 feet)

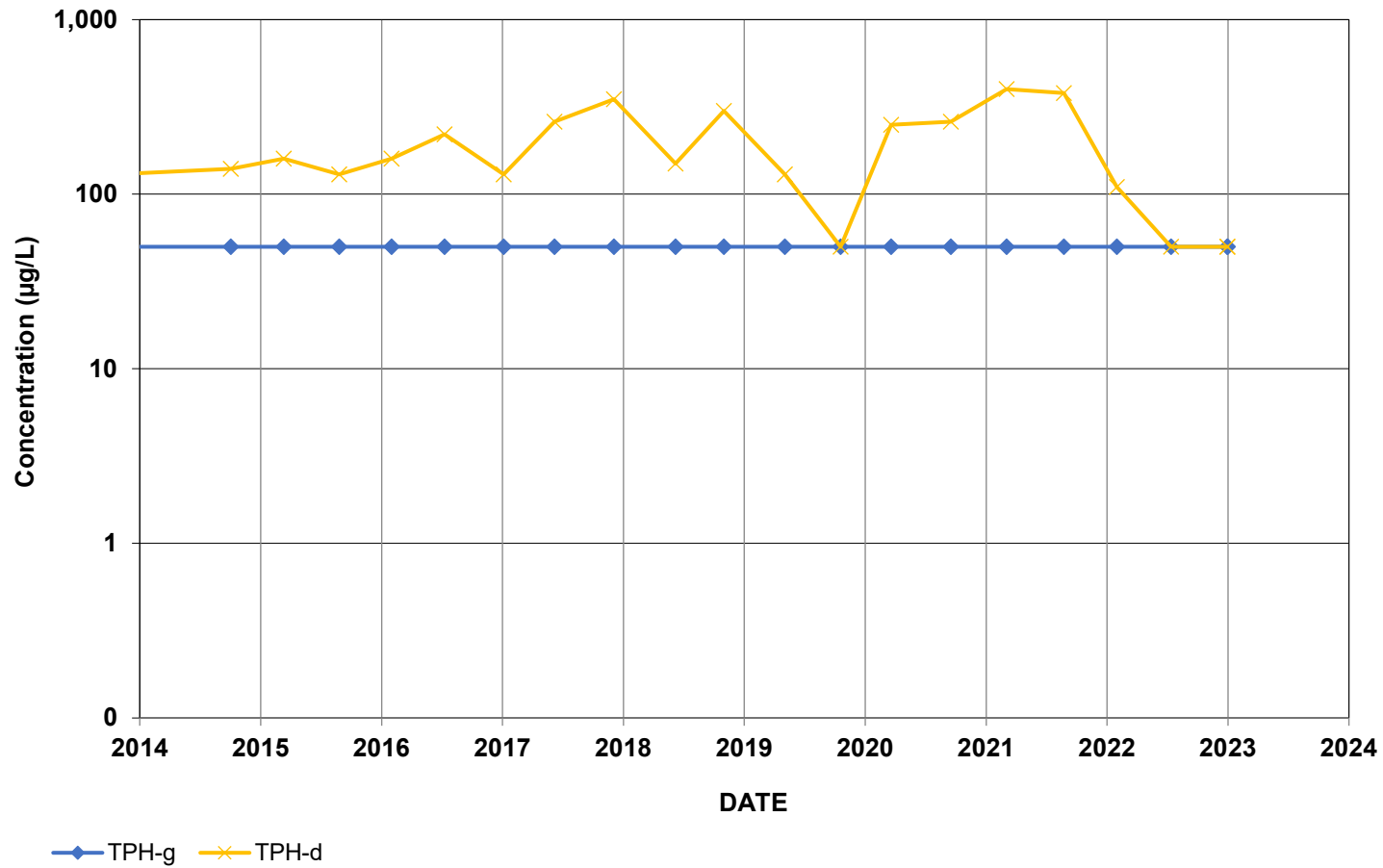
MW-15R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: BSP-32 (20 feet)

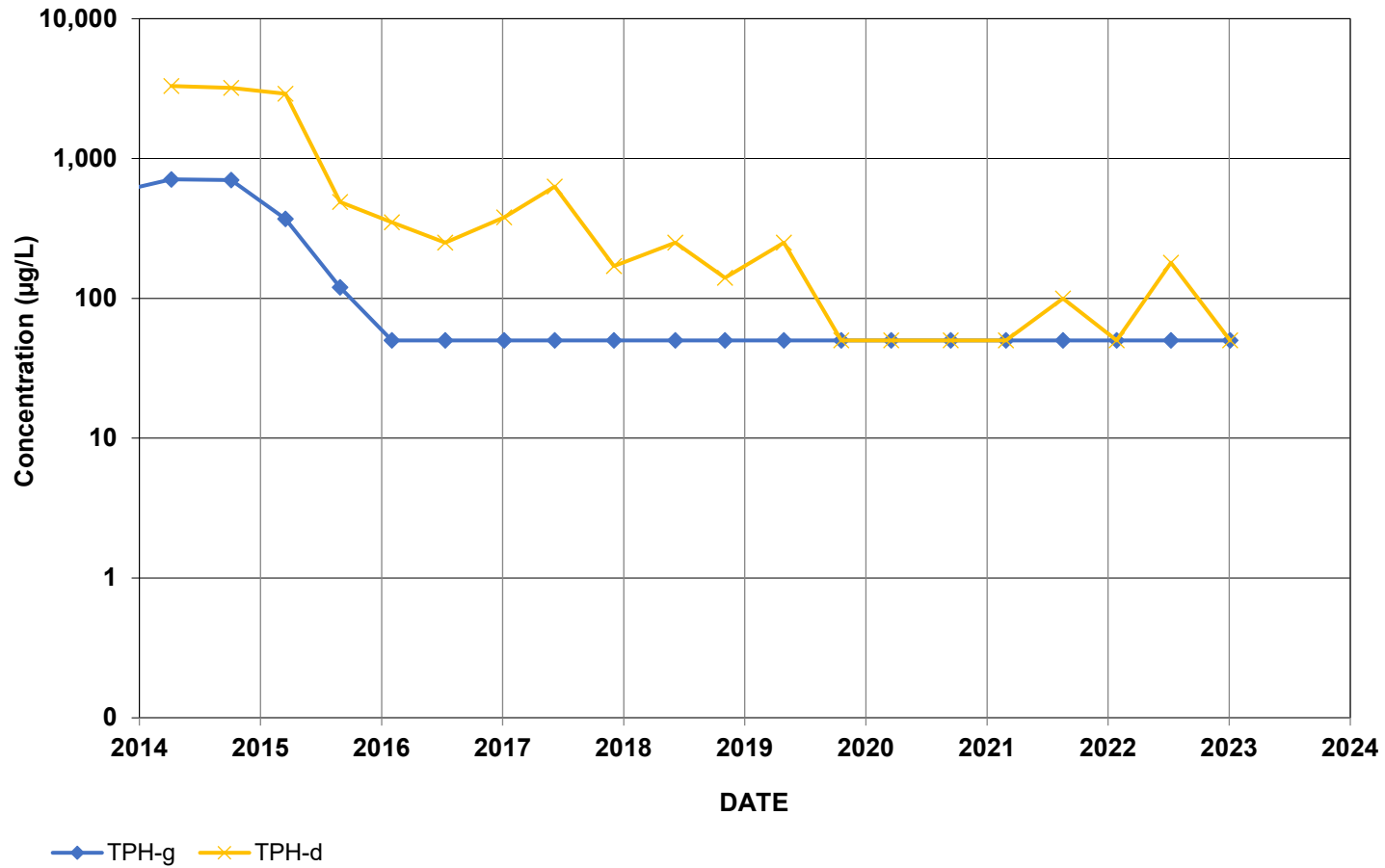
MW-27



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-20 (9 feet)

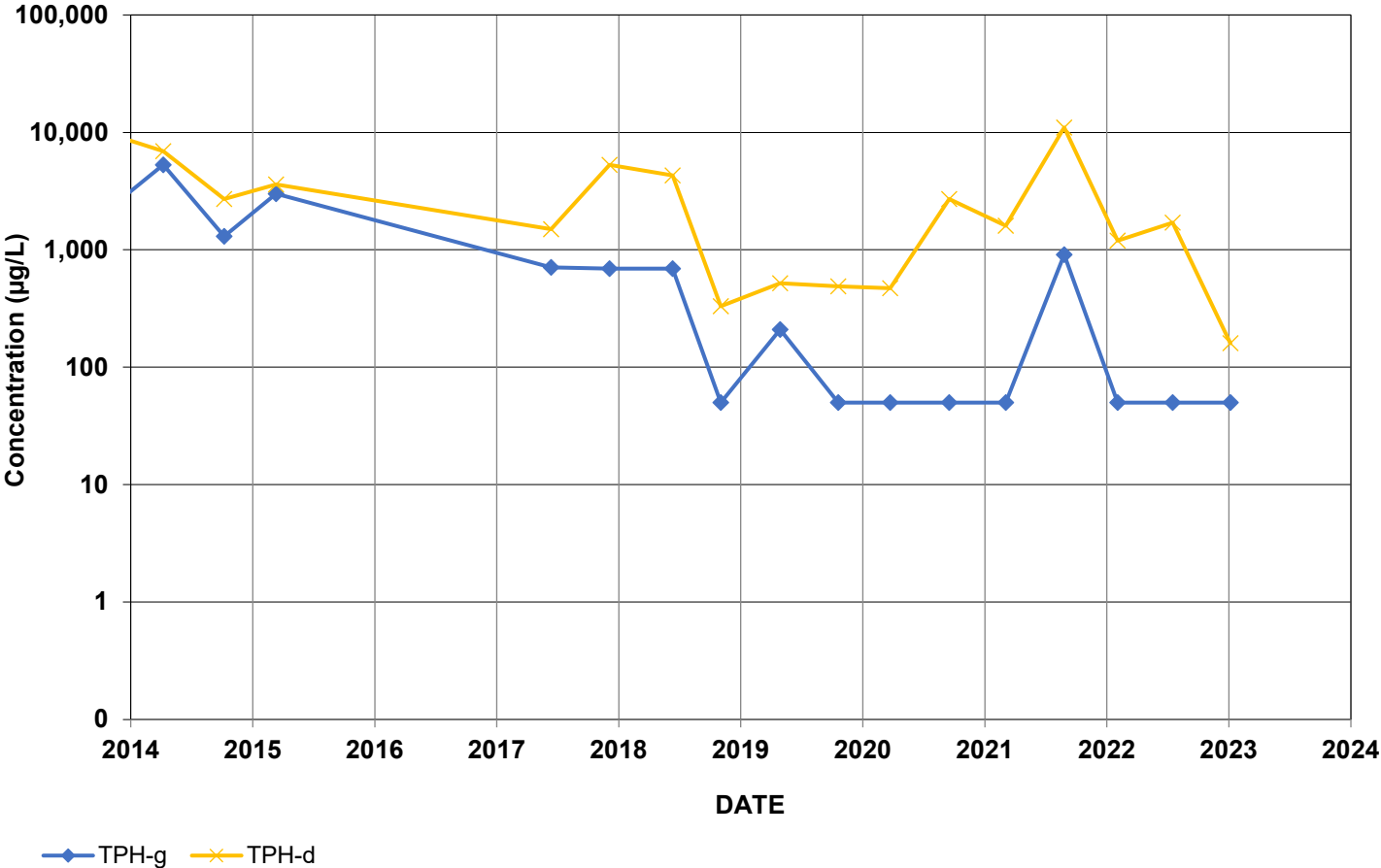
MW-29



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-7 (26 feet)

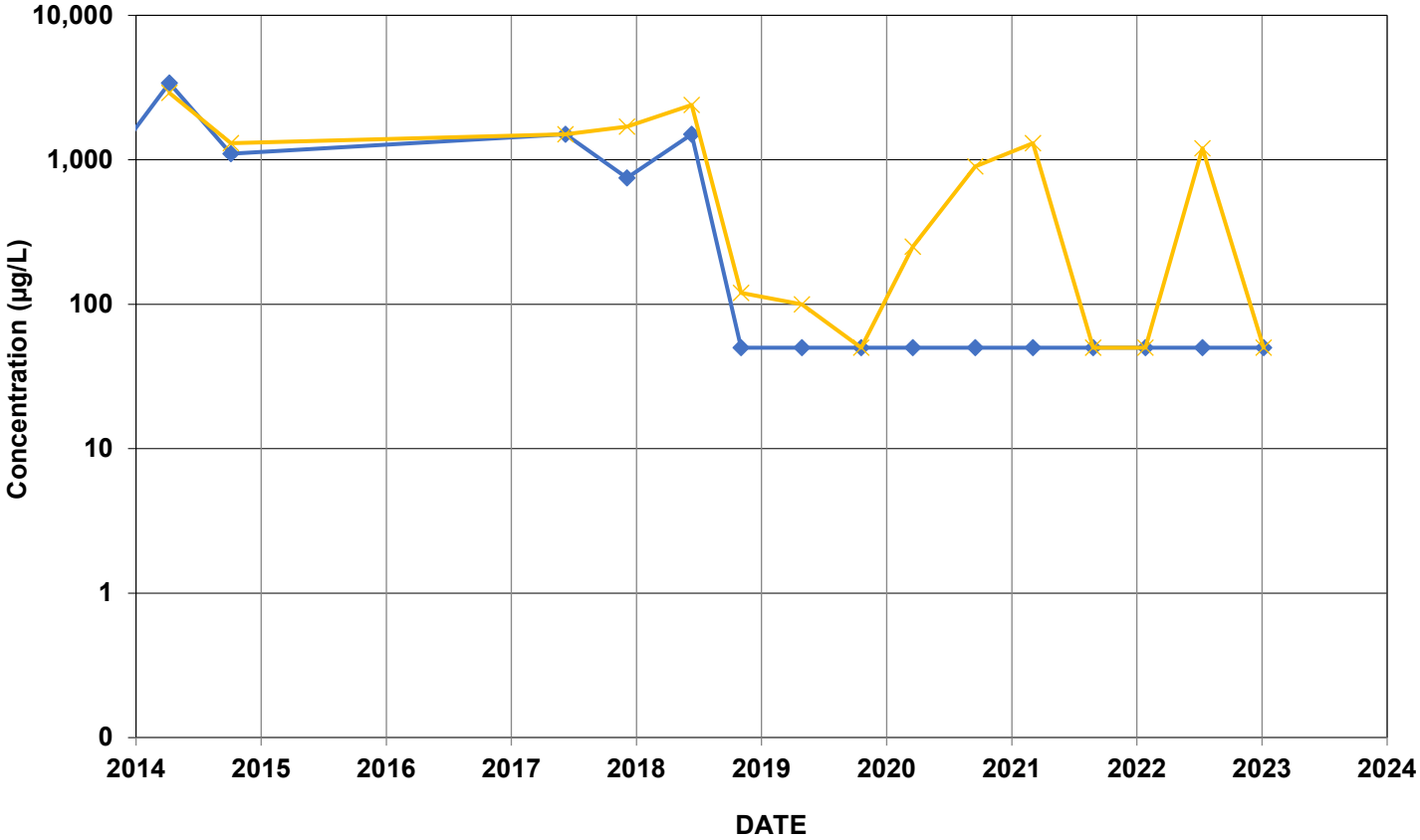
PZ-3



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-23 (35 feet), BSP-31 (10 feet)

TF-9R

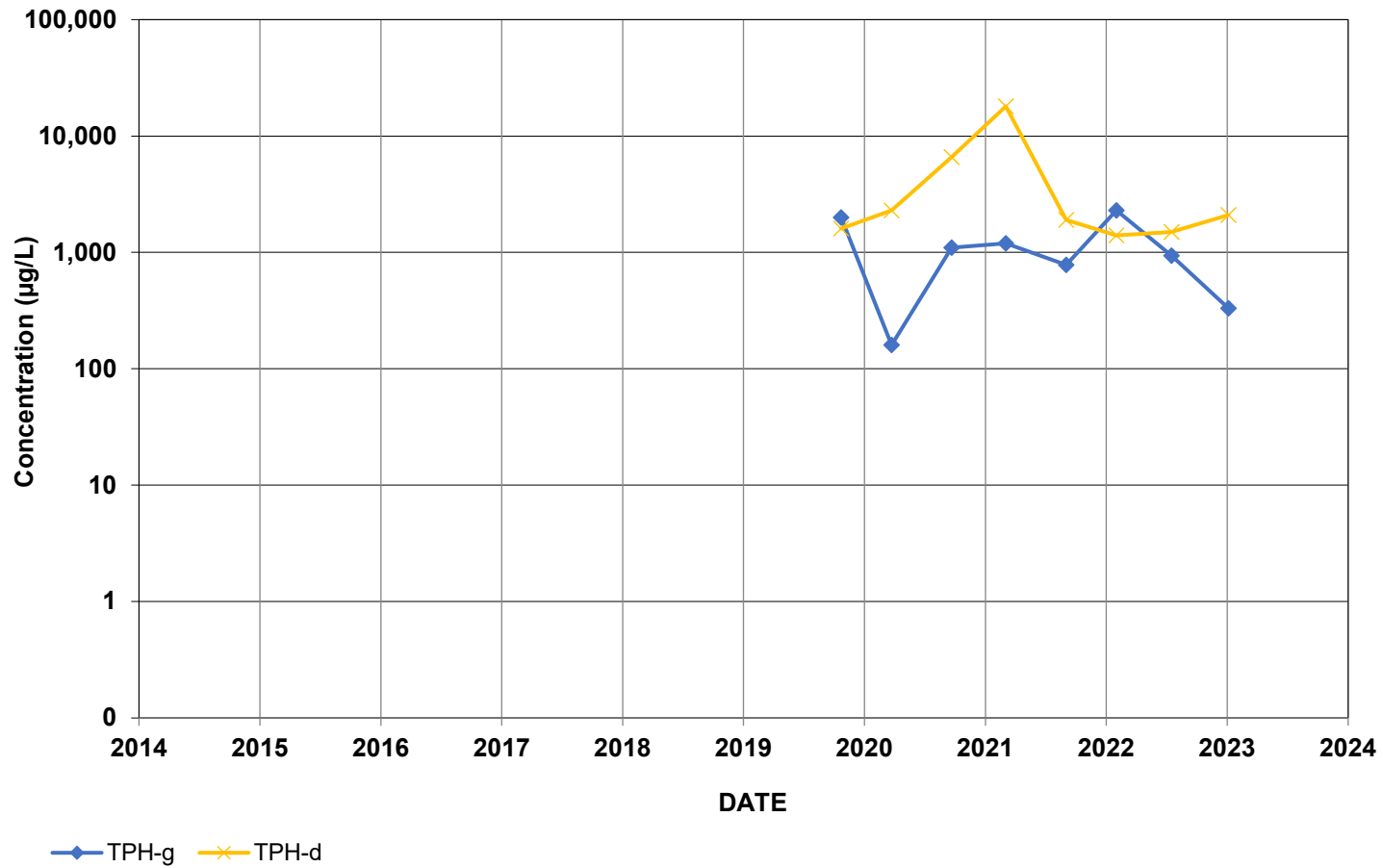


TPH-g TPH-d

Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-35 (23 feet), TFB-13 (35 feet)

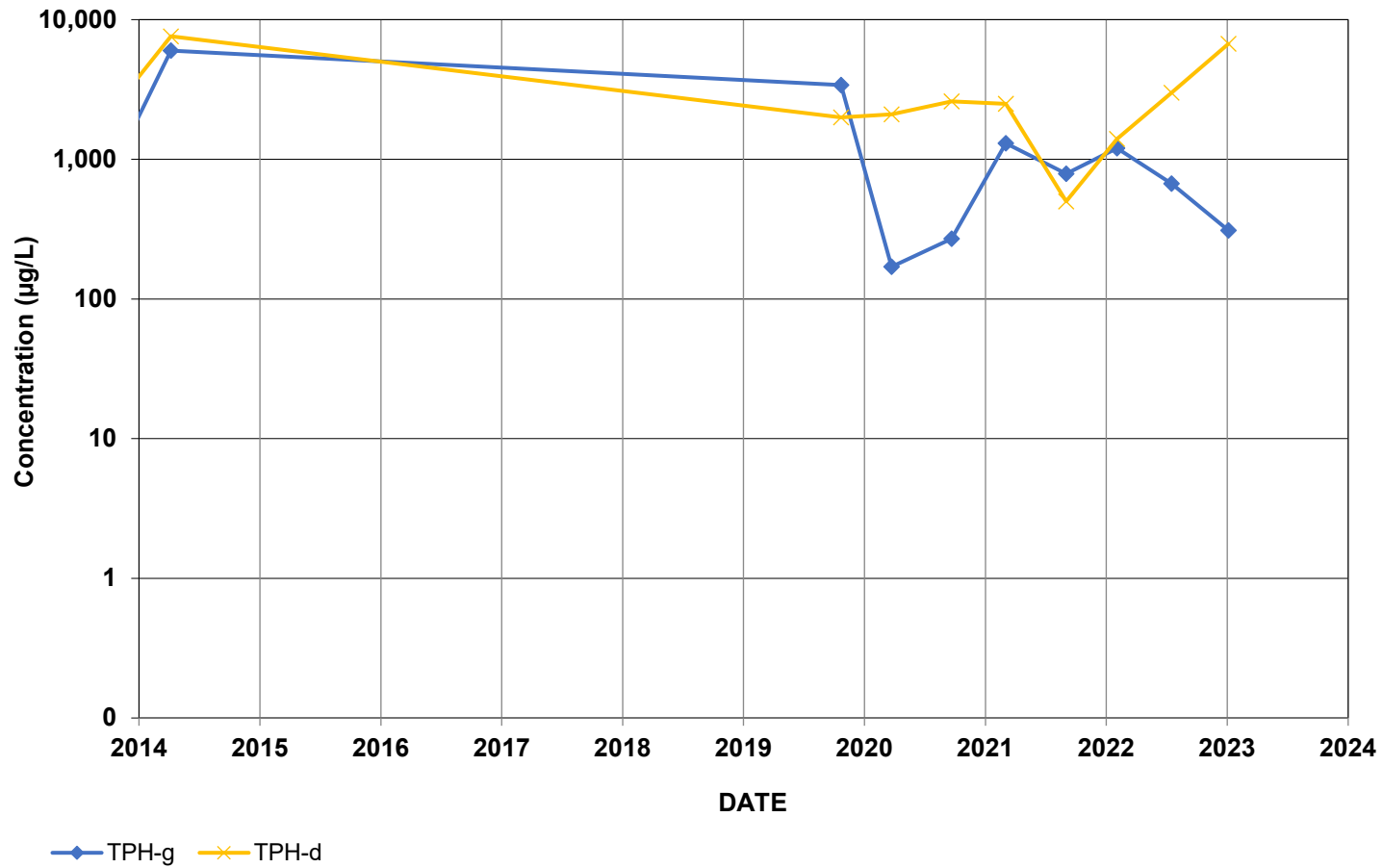
TF-15



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-37 (27 feet), TFB-15 (35 feet)

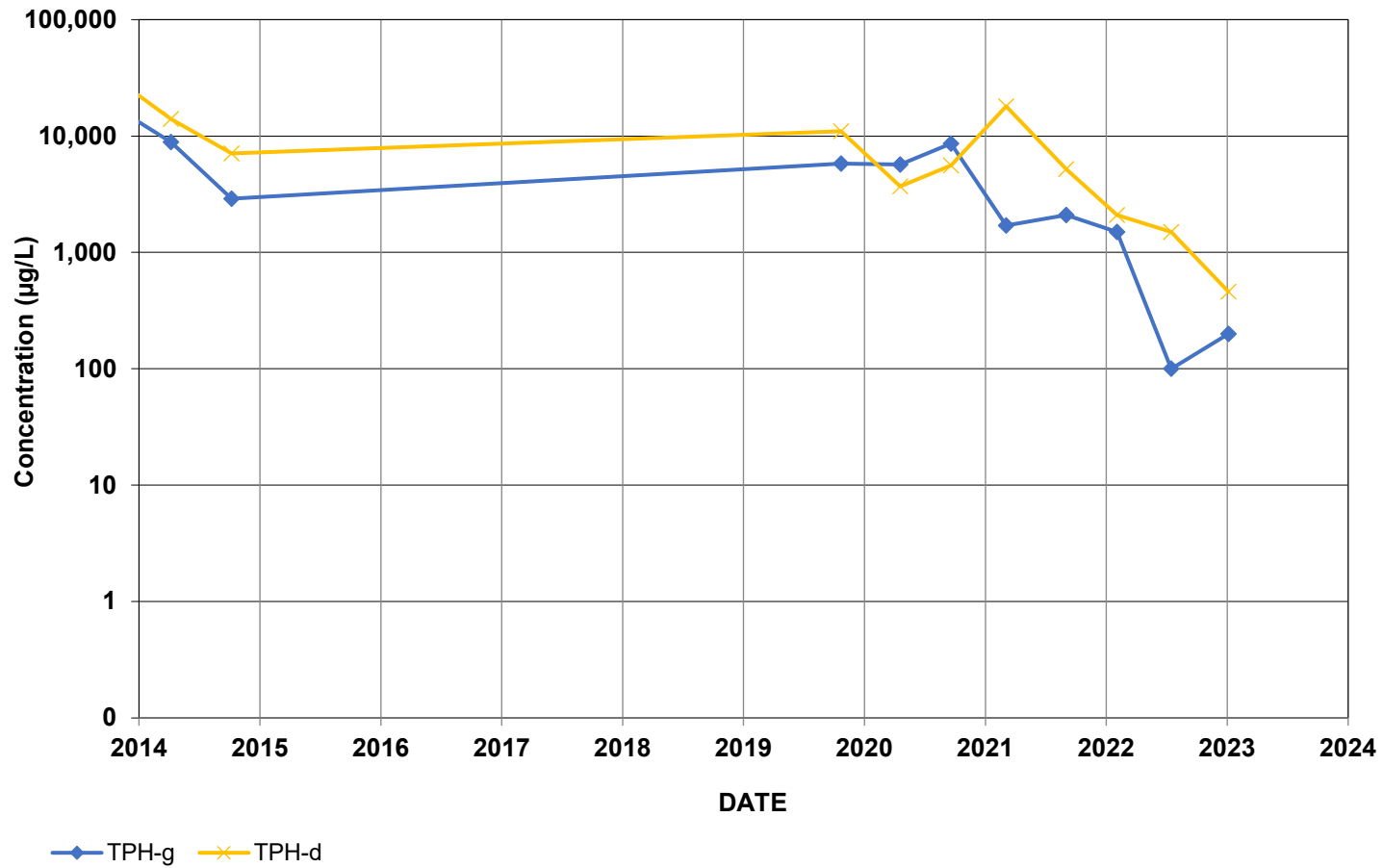
TF-16



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: TFB-44 (14 feet), TFB-24 (44 feet)

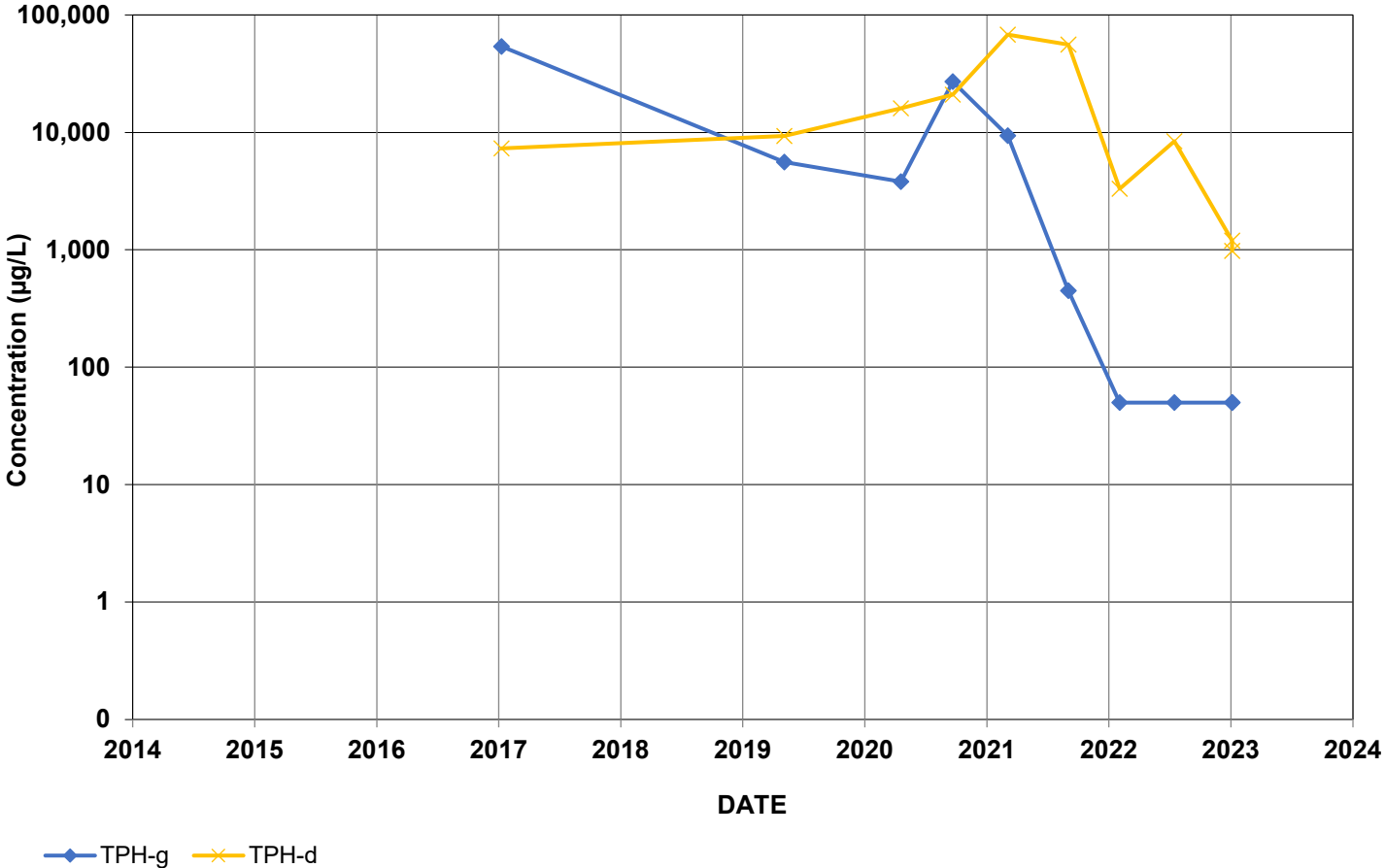
TF-17R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-39 (20 feet), TFB-23 (53 feet)

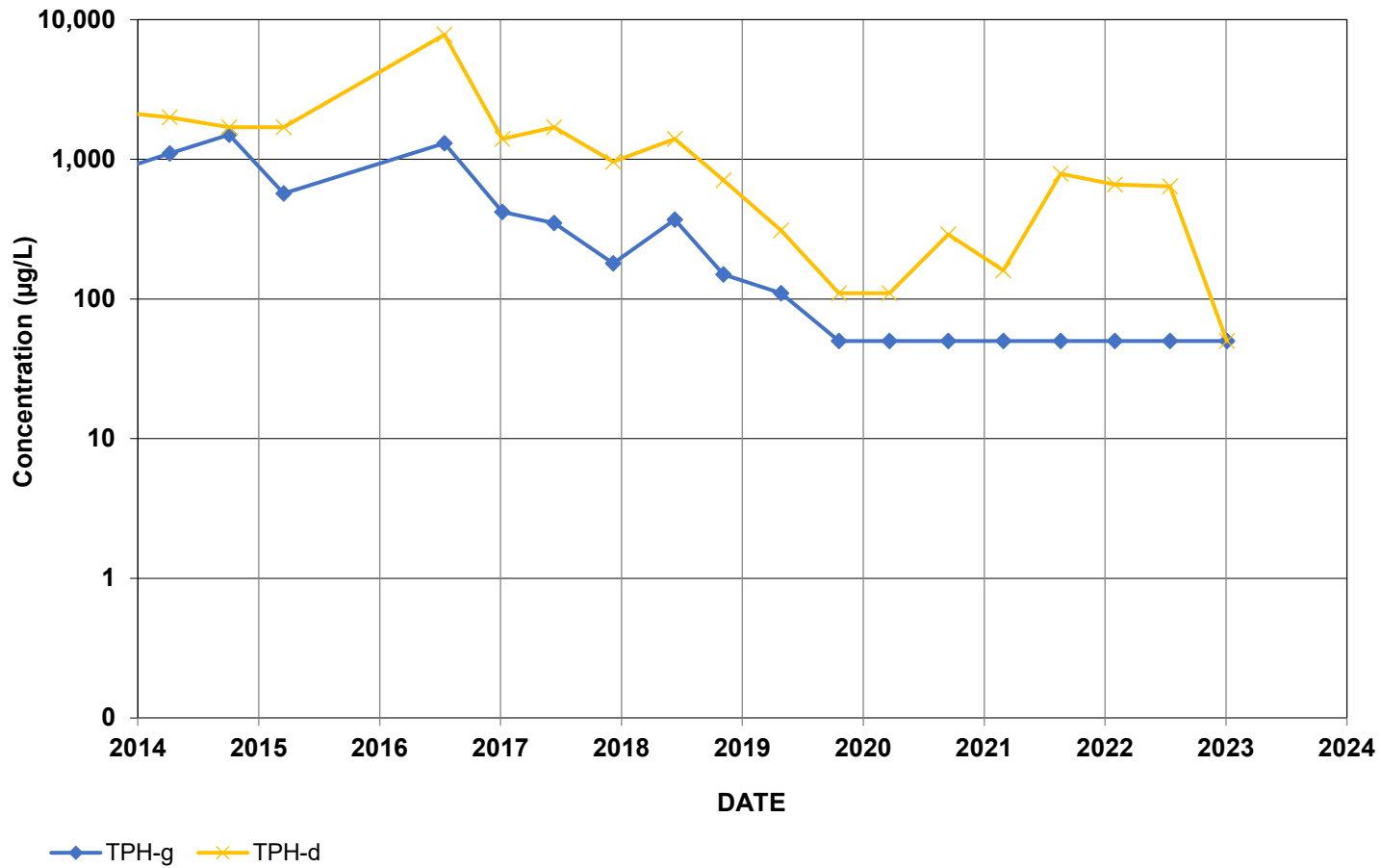
TF-18



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-35 (18 feet)

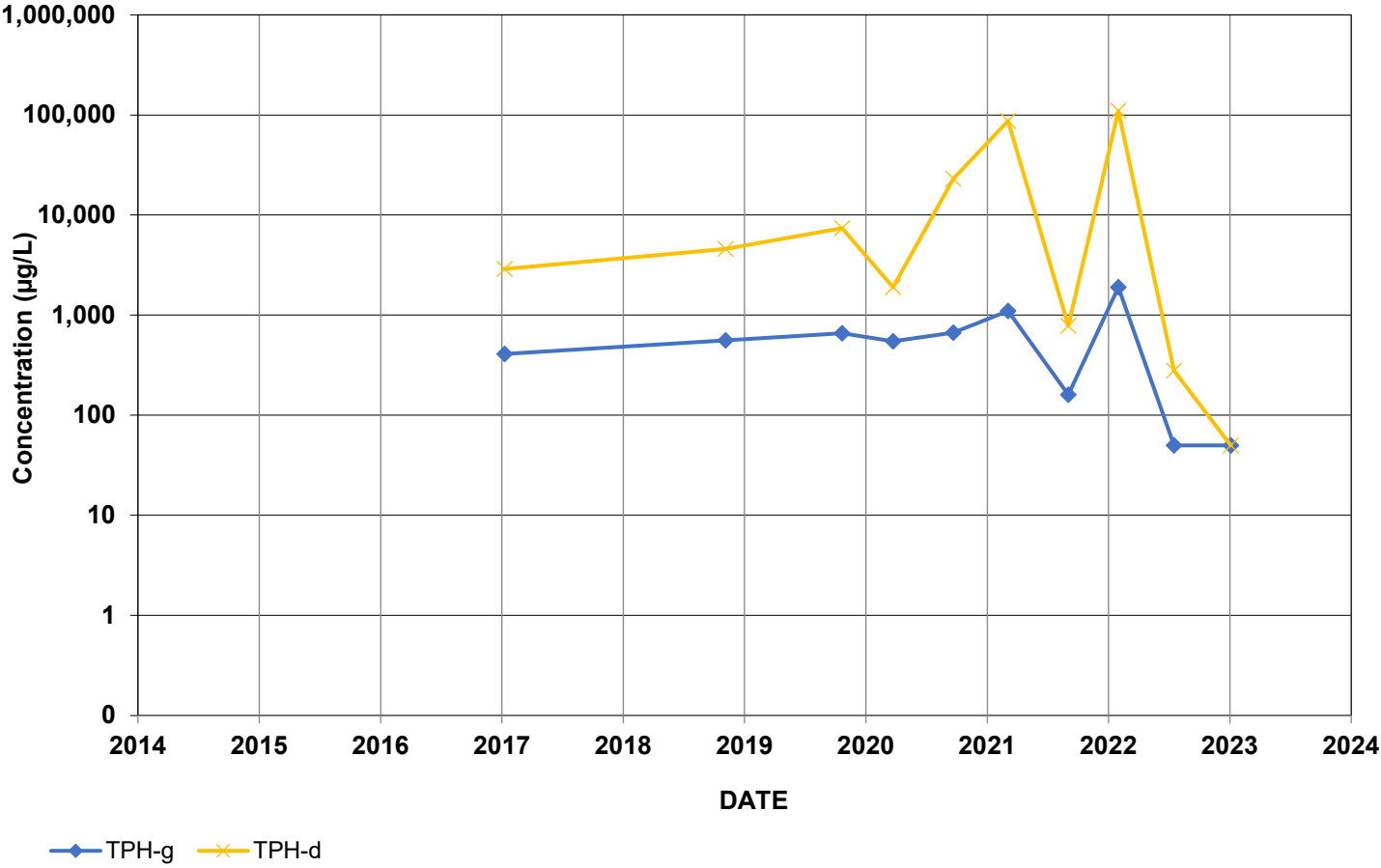
TF-21



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-40 (10 feet), TFB-21 (53 feet)

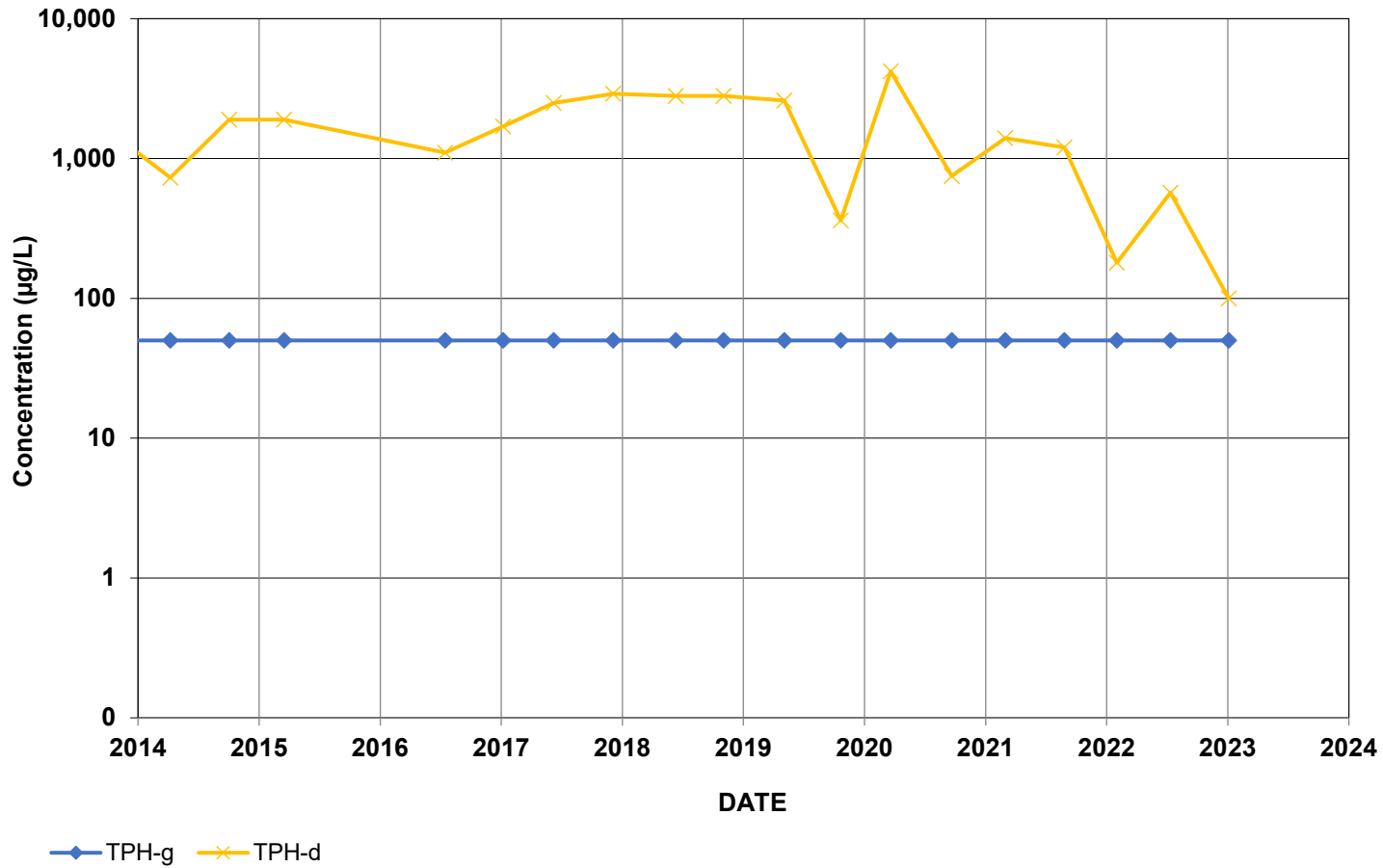
TF-23



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Wells: BSP-33 (15 feet), TFB-6 (35 feet)

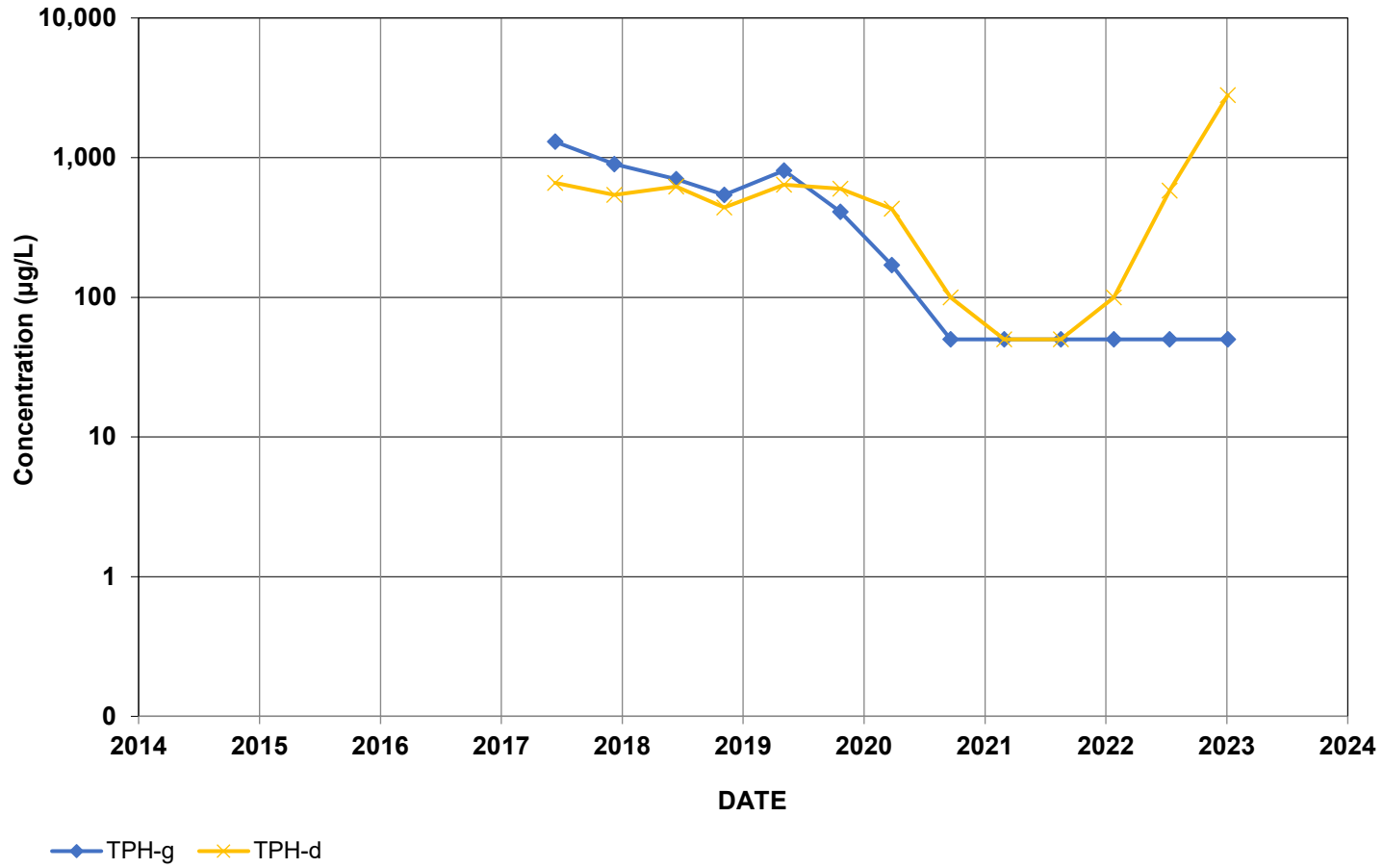
TF-24



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)

Closest Biosparge Well: TFB-30 (35 feet)

TF-20R



Non-detect results are plotted at the laboratory reporting limit (see table in Appendix C)