



Transmittal

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Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, CA

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Northrop Grumman is submitting the above-referenced

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If you have any questions or comments regarding the enclosed report, please feel free to contact Josh Nandi at Joshua.Nandi@ngc.com.

United States Environmental Protection Agency Region 9

2021 Annual Groundwater Monitoring Report

Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

March 17, 2022

USEPA ID: CAD009159088



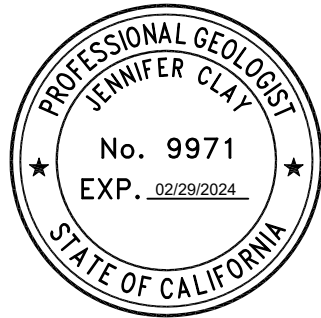


2021 Annual Groundwater Monitoring Report

Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, CA 94085

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Table of Contents

1	Introduction	1
1.1	Groundwater Monitoring Well Network	1
1.2	Groundwater Monitoring Program	1
2	Site Activities.....	2
2.1	Groundwater Monitoring.....	2
2.2	Sub-Slab Depressurization (SSD) System Inspection	2
3	Results	2
3.1	Water-Level Elevations	2
3.2	Groundwater Analytical Results	3
3.2.1	Site Upgradient Wells.....	4
	Zone A.....	4
	Zone B1	4
	Zone B2.....	5
3.2.2	Site Downgradient Wells	5
	Zone A.....	5
	Zone B1	6
	Zone B2.....	6
3.2.3	Off-site Groundwater Analytical Data	7
4	Waste Management.....	8
5	Conclusions	9
6	Recommendations	9

Figures

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Potentiometric Surface Contours, Zone A – October 2021

Figure 4 – Potentiometric Surface Contours, Zone B1, HSU 3 – October 2021

Figure 5 – Potentiometric Surface Contours, Zone B1, HSUs 1 and 2 – October 2021

Figure 6 – Potentiometric Surface Contours, Zone B2 – October 2021

Figure 7 – Analytical Results Map – Zone A

Figure 8 – Analytical Results Map – Zone B1

Figure 9 – Analytical Results Map – Zone B2

Figure 10 – TCE Concentrations vs. Time – Zone A Wells - T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A

Figure 11 – cDCE Concentrations vs. Time – Zone A Wells - T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A

Figure 12 – TCE Concentrations vs. Time – Zone B1 Wells - T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B, T-25Bs and T-25Bd

Figure 13 – cDCE Concentrations vs. Time – Zone B1 Wells - T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B T-25Bs and T-25Bd

Figure 14 – TCE Concentrations vs. Time – Zone B2 - Wells T-2C, T-10C, T-11C, and T-12C

Figure 15 – cDCE Concentrations vs. Time – Zone B2 - Wells T-2C, T-10C, T-11C, and T-12C

Figure 16 – Chlorinated Ethene Concentrations - Across Site, Zone A – T-7A, T-13A, T-14A, T-8A, T-15A, T-16A, and T-9A

Tables

Table 1 – Well Completion and Sampling Information

Table 2 – Water-Level Elevation Measurements – October 2021

Table 3 – 2021 Groundwater Volatile Organic Compound Results

Table 4 – 2021 Groundwater Water Quality Parameters Results

Appendices

Appendix A – Groundwater Sampling Procedures and Low Flow Sampling Logs

Appendix B – Technical Memorandum 2021 Annual Maintenance Inspection: Sub-Slab
Depressurization (SSD) System

Appendix C – Historical Water-Level Elevation Measurements

Appendix D – Historical Groundwater Analytical Results

Appendix E – Analytical Laboratory Reports and Chain-of-Custody Forms - 2021

Appendix F – Chlorinated Ethene Concentration Trend Plots for Selected Wells

Appendix G – Off-Site Monitoring Wells Table and Data

Appendix H – Waste Manifests – 2021



Acronyms

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
1,2-DCB	1,2-dichlorobenzene
AMD	Advanced Micro Devices
bgs	below ground surface
BFM	bromoform
CBN	chlorobenzene
cDCE	cis-1,2-dichloroethene
CoC	constituent of concern
DTSC	Department of Toxic Substance Control
EAB	Enhanced Anaerobic Bioremediation
ESS	Environmental Sequence Stratigraphy
Eurofins	Eurofins TestAmerica Laboratories, Inc.
Ft	foot or feet
Freon 11	trichlorofluoromethane
Freon 12	dichlorodifluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
GES	Groundwater & Environmental Services, Inc.
HSUs	hydrostratigraphic units
MCLs	Maximum Contaminant Levels
mg/L	milligrams per liter
NPC	Non-Pumping Conditions
OOU	Offsite Operable Unit
PCE	tetrachloroethene
Philips	Philips Semiconductors, Inc.
Report	2021 annual groundwater monitoring report
RWQCB	California Regional Water Quality Control Board – San Francisco Bay Region
SCRs	Site cleanup requirements
SDOU	Stewart Drive Operable Unit
Site	former TRW Microwave Site
TCE	trichloroethene
tDCE	trans-1,2-dichloroethene
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VC	vinyl chloride
VOCs	volatile organic compounds
µg/L	micrograms per liter



1 Introduction

Groundwater Environmental Services, Inc. (GES) on behalf of Northrop Grumman, has prepared this 2021 annual groundwater monitoring report (report) for the former TRW Microwave Site (Site) in Sunnyvale, California (**Figure 1**). This report presents the results of the 2021 groundwater monitoring program conducted at the Site. The United States Environmental Protection Agency (USEPA) is the lead regulatory agency for the Site, after regulatory oversight transferred from the California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) on August 7, 2014 (USEPA, 2014).

The groundwater monitoring program includes annual monitoring activities previously established by the RWQCB (RWQCB, 1999) including Non-Pumping Conditions (NPC) evaluation (RWQCB, 2001), updates to the monitoring schedule approved by RWQCB and USEPA in 2007 and 2011 (RWQCB, 2007; RWQCB, 2011), and the removal of the Enhanced Anaerobic Bioremediation (EAB) monitoring program as proposed in the 2017 Annual Groundwater Monitoring and Remedial Progress Report (AECOM, 2020). Primary volatile organic compounds (VOCs) monitored at the Site are trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), vinyl chloride (VC), and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113).

1.1 Groundwater Monitoring Well Network

Forty-nine (49) wells and the Eductor (a groundwater extraction pipe installed within the former underground storage tank [UST] gravel backfill pit) have been completed at the Site in five depth intervals, designated as Zones A, B1, B2, B3, and B4 (**Table 1**). These zones consist of permeable sediments, ranging from silty sand to sand and gravel, and are vertically separated by laterally continuous lower permeability clay and silt intervals. In Zone B1, multiple hydrostratigraphic units (HSUs) have been reported. HSUs 1 and 2 are overlaid by HSU 3.

In 2004, wells T-1A and T-1B were abandoned with permission from RWQCB (CDM, 2004; RWQCB, 2004). As discussed in the 2014 annual report (AECOM, 2015), four wells (T-2A, T-2B, T-2C, and T-3A) and the Eductor, all located inside the building, were destroyed in October and November 2014. In 2009, well T-6A was removed from the monitoring program from RWQCB (RWQCB, 2009). There is no available record of this well being destroyed, and the well is believed to still be in place. Installation of wells T-25Bs and T-25Bd were completed in December of 2018 in the vicinity of T-9B to address previously identified data gaps and serve as a replacement for well T-9B (AECOM, 2019). In October 2019, well T-9B was abandoned with approval from USEPA (USEPA, 2019). **Figure 2** shows the Site layout and existing well locations (as of October 2021).

1.2 Groundwater Monitoring Program

The NPC evaluation was initiated in April 2001 and involves the assessment of VOC concentration trends after complete suspension of groundwater extraction at the Site. The EAB program was initiated in October 2000 to remediate the former Site source area (the former UST area).



Select wells are sampled on an annual basis. For the 2020 calendar year, Northrop Grumman continued the monitoring schedule approved by RWQCB in 2007 and 2011 (RWQCB, 2007; RWQCB, 2011) and the removal of the EAB monitoring program in 2017 (AECOM, 2020).

All groundwater samples were analyzed for VOCs using USEPA Method 8260B.

2 Site Activities

GES conducted the 2021 annual groundwater monitoring event for the NPC evaluation.

2.1 Groundwater Monitoring

Groundwater levels were measured in 41 Site wells on October 11, 2021, in conjunction with the annual groundwater monitoring events for surrounding sites (adjacent operable units and the off-site operable unit). Groundwater samples were collected from 31 monitoring wells between October 11 and October 13, 2021. Additional groundwater analytical data collected and provided by adjacent properties is also included in this report. A description of standard field procedures utilized for groundwater sampling and copies of the low-flow sampling logs for each well are included in **Appendix A**.

Samples were collected in laboratory-supplied bottleware, placed on ice, and transported under chain of custody to Eurofins Test America, Laboratories, Inc. (Eurofins) for analysis of VOCs by USEPA Method 8260B.

Purge and decontamination water was placed in a 55-gallon drum and stored on-site until profiled and disposed of off-site as non-hazardous waste at a USEPA-approved facility.

2.2 Sub-Slab Depressurization (SSD) System Inspection

The SSD system was inspected on October 12, 2021. The SSD system that is visible on the roof was observed to assess the system's current working state. Each of the three buildings associated with the site have a cluster of two to three vent risers that extend from the sub-slab collection laterals and penetrate the roof to allow for passive depressurization of the sub-slab area. The site visit observations were made to assess if the turbines were freely turning and free of corrosion, were actively turning due to wind, and their current location relative to existing roof equipment. Details and photos from the SSD system inspection are included as **Appendix B**.

3 Results

A discussion of the water-level elevations and groundwater analytical results for the October 2021 annual groundwater monitoring event is presented below.

3.1 Water-Level Elevations

The October 2021 water-level elevation data for the Site wells is presented in **Table 2, Figures 3 through 6**, and historical water-level data is presented in **Appendix C**. Potentiometric surface



contours generated for Zones A, B1, and B2 using the October 2021 water-level elevation data are presented on **Figures 3** through **6**. In both Zone B3 and Zone B4, there is only one Site well screened within each zone, and therefore a potentiometric surface is not contoured for those zones.

As reported in the Environmental Sequence Stratigraphy (ESS) evaluation (Burns & McDonnell, 2020), groundwater movement is influenced locally by channelized flow related to stream deposits. The gray areas depicted in **Figures 3** through **6** represent areas of low permeability silt/clay-rich floodplain deposits that reportedly impede groundwater flow relative to the higher permeability sand/gravel stream channel deposits.

In October 2021, the static depth to the water in Zone A ranged from approximately 2.63 feet (ft.) (well T-8D) to 9.40 ft. below ground surface (bgs) (well T-5B). Approximate groundwater flow in Zone A is to the west at a gradient ranging from 0.004 to 0.016 vertical ft. per horizontal ft. Approximate groundwater flow in Zone B1 is southwest at a gradient ranging from 0.005 to 0.015 vertical ft. per horizontal ft. Approximate groundwater flow in Zone B2 is to the west-southwest at a gradient ranging from 0.005 to 0.013 vertical ft. per horizontal ft. Water levels and groundwater movement in Zones B1 and B2 have been reported to be affected by groundwater extraction at the Philips Semiconductors, Inc. (Philips) sites (located to the west at 811 East Arques Avenue and 440 North Wolfe Road) (AECOM, 2020; Locus, 2016). Groundwater flow directions in Zone A, Zone B1, and Zone B2 are consistent with historical reporting (AECOM, 2020).

Groundwater elevations in Zone A wells during the October 2021 monitoring event in general decreased in elevation on average by 0.28 ft. compared to the October 2020 measurements. Water levels in Zone B1 wells during October 2021 also in general decreased in elevation on average by 0.27 ft compared to October 2020. Water levels in Zone B2 wells during October 2021 decreased in elevation on average by 0.58 ft. compared to October 2020, with the exception of well T-10C, at which groundwater elevation increased by 0.09 ft.

3.2 Groundwater Analytical Results

VOCs detected during the October 2021 groundwater sampling events are summarized in **Table 3** and the historical results for previous monitoring events for pre- and post-EAB monitoring events, are presented in **Appendix D**. Historically, low concentrations of other VOCs (e.g., chloroform) have occasionally been reported. These VOCs are not listed in **Table 3** or **Appendix D** as they are not a site constituent of concern (CoC) and have not been reported above their Site cleanup requirements (SCRs) (e.g., California Maximum Contaminant Levels [MCLs] or action levels, federal MCLs, or risk-based levels). Site CoCs include tetrachloroethene (PCE), TCE, cDCE, trans-1,2-dichloroethene (tDCE), VC, 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), chlorodibromomethane, trichlorofluoromethane (Freon 11), dichlorodifluoromethane (Freon 12), Freon 113, bromoform (BFM), 1,2-dichlorobenzene (1,2-DCB), and chlorobenzene (CBN).

Figures 7 through **9** present the analytical results for TCE, cDCE, VC, and Freon 113, as appropriate, for each of the zones (A, B1, and B2). Time-series graphs of TCE and cDCE concentrations vs. time for representative Site wells, and are presented as follows:



- **Figure 10 and 11:** Seven wells in Zone A (T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A).
- **Figures 12 and 13:** Seven wells in Zone B1 (T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B, T-25Bs and T-25Bd).
- **Figures 14 and 15:** on-site Zone B2 wells (T-2C, T-10C, T-11C, and T-12C).

Note that wells T-2A, T-2B, T-2C and T-9B are still included on these figures for reference, even though the wells no longer exist.

A graph of concentrations of PCE, TCE, cDCE, tDCE, and VC for October 2021 at select wells, along the general groundwater flow direction in Zone A, across the Site are presented on **Figure 16**. Due to the identified separate HSUs in Zone B1 (AECOM, 2016), a similar figure is not presented for Zone B1.

Additional water quality parameters related to evaluation of conditions conducive to natural attenuation (nitrate, sulfate, methane, ethane, ethylene, total alkalinity and total organic carbon) were collected from select monitoring wells (T-8B, T-10B, and T-25Bs) during the 2021 groundwater sampling event. Field water quality parameters from all wells and analytical results reported for the select wells are shown on **Table 4**. For selected Site wells, trend plots of chlorinated ethene concentrations prior to and after suspension of groundwater extraction in April 2001 are presented in **Appendix D**. Copies of the laboratory analytical reports and chain-of-custody forms for the 2021 groundwater monitoring event are in **Appendix E**.

3.2.1 Site Upgradient Wells

Zone A

2021 Groundwater analytical results for CoCs from Zone A well T-7A, located along the upgradient southern Site boundary (**Figure 7**), indicate migration of CoCs, primarily TCE and cDCE, onto the Site. Concentrations of TCE migrating onto the Site (around well T-7A) are similar to or greater than those for wells downgradient of the former Site source area in Zone A (see **Figure 16**).

- The TCE concentration for upgradient Zone A well T-7A was reported at 95 micrograms per liter ($\mu\text{g/L}$). The result for T-7A is the lowest reported concentration in the historical range of concentrations for this well, but is relatively similar to the previously reported concentration for 2020 of 110 $\mu\text{g/L}$.
- The cDCE concentration for upgradient Zone A well T-7A was reported at 39 $\mu\text{g/L}$. The result for T-7A is within the historical range of concentrations for this well.
- Concentrations for other CoCs were either reported below reporting limits or less than MCLs.

Zone B1

Groundwater analytical results for CoCs from Zone B1 wells T-5B, T-7B, and T-20B along the upgradient Site boundary (**Figure 8**) also indicate CoC migration onto the Site.

- The TCE concentrations for upgradient Zone B1 wells were reported to range from 130 $\mu\text{g/L}$ (T-7B) to 1,400 $\mu\text{g/L}$ (T-5B). All reported concentrations of TCE are within the historical range;



with the exception of T-20B (first sampled October 2017) the reported concentration is the lowest in the historical range of concentrations.

- The cDCE concentrations for upgradient Zone B1 wells were reported to range from 7.0 µg/L (T-7B) to 370 µg/L (T-20B). All reported concentrations of cDCE are within the historical range of concentrations, except T-20B (first sampled October 2017) the reported concentration is the highest in the historical range of concentrations.
- The VC concentrations for upgradient Zone B1 wells were reported to range from below reporting limit (T-5B and T-7B) to 6.3 µg/L (T-20B). All reported concentrations of VC are within the historical range of concentrations.
- The PCE concentrations for upgradient Zone B1 wells were reported to range from below reporting limit (T-7B and T-20B) to 6.5 µg/L (T-5B). All reported concentrations of PCE are within the historical range.
- Concentrations for other CoCs were either reported below reporting limits or less than MCLs.

Zone B2

Groundwater analytical results for CoCs from Zone B2 well 36DD along the upgradient Site boundary (**Figure 8**) also indicate CoC migration onto the Site.

- The cDCE concentrations for upgradient Zone B2 well was reported to at 16 µg/L (36DD). The reported concentration of cDCE is within the historical range of concentrations.
- The VC concentrations for upgradient Zone B2 well was reported to at 1.6 µg/L (36DD). The reported concentration of VC is within the historical range of concentrations.
- Concentrations for other CoCs were either reported below reporting limits or less than MCLs.

3.2.2 Site Downgradient Wells

Zone A

Groundwater analytical results for CoCs from Zone A wells T-8A, T-9A, T-13A, T-14A, T-15A, T-16A, T-17A, T-19A, T-23A, T-25A, and 38-S, located downgradient of the southern Site boundary, are depicted on **Figure 7**, and summarized below.

- TCE concentrations for downgradient Zone A wells were reported to range from 0.20 µg/L (T-19A) to 78 µg/L (T-8A and T-15A). All reported concentrations of TCE are within the historical range of concentrations, with the exception of T-17A which had the lowest reported concentration to date.
- cDCE concentrations for downgradient Zone A wells were reported to range from 7.9 µg/L (T-19A) to 91 µg/L (T-9A). All reported concentrations of cDCE are within the historical range of concentrations.
- VC concentrations for downgradient Zone A wells were reported to range from 0.85 µg/L (T-8A) to 30 µg/L (T-19A). All a reported concentrations of VC are within the historical range of concentrations.
- Concentrations for other CoCs were either reported below reporting limits or less than MCLs.



Concentrations of TCE and cDCE at the downgradient wells are lower than the upgradient well T-7A (see **Figure 16**), except for cDCE at T-9A. Concentration trend plots for select Zone A wells (T-7A, T-8A, T-9A, T-13A, T-14A, T-15A, and T-16A) are included in **Appendix F**.

Zone B1

Groundwater analytical results for CoCs from Zone B1 wells T-4B, T-8B, T-10B, T-17B, T-19B, T-21B, T-22B, T-23B, T-24B, T-25Bs, and T-25Bd, located downgradient of the southern Site boundary, are depicted on **Figure 8**.

- TCE concentrations for downgradient Zone B1 wells were reported to range from 3.6 µg/L (T-4B) to 410 µg/L (T-21B). All reported concentrations of TCE are within the historical range of concentrations, with the exception of T-25Bd (first sampled December 2018) which had the lowest reported concentration to date.
- cDCE concentrations for downgradient Zone B1 wells were reported to range from 1.3 µg/L (T-19B) to 410 µg/L (T-8B). All reported concentrations of cDCE are within the historical range of concentrations, with the exception of T-24B (first sampled October 2017) and T-25Bd (first sampled December 2018) which had the lowest reported concentrations to date.
- VC concentrations for downgradient Zone B1 wells were reported to range from below reporting limit (T-4B, T-17B, T-19B, T-21B, T-23B, T-24B, and T-25Bd) to 51 µg/L (T-25Bs). All reported concentrations of VC are within the historical range of concentrations, with the exception of T-23B (first sampled October 2017) and T-24B (first sampled October 2017) which were reported as not detected at or above the reporting limit for the first time.
- Concentrations for other CoCs were either reported below reporting limits or less than MCLs.

Based on the additional analytical and field parameters, conditions remain reducing which are characterized by no detectable nitrate, generally negative ORP, and generally low DO (less than one milligrams per liter [mg/L]) (USEPA, 1998). Although total organic carbon concentrations were detected below the optimal target of 20 mg/L (USEPA, 1998) for reductive dechlorination, the presence of ethylene and ethene provide a line of evidence that degradation of TCE, cDCE, and VC is occurring in this zone.

Concentration trend plots for select Zone B wells (T-4B, T-7B, T-8B, T-10B, and T-17B) are included in **Appendix F**.

Zone B2

Groundwater analytical results for CoCs from Zone B2 wells T-10C, T-11C, and T-12C, located onsite, are depicted on **Figure 9**.

- TCE concentrations for Zone B2 wells were reported to range from 1.9 µg/L (T-12C) to 240 µg/L (T-10C). All reported concentrations of TCE are within the historical range of concentrations.
- cDCE concentrations for Zone B2 wells were reported to range from 0.54 µg/L (T-12C) to 290 µg/L (T-10C). All reported concentrations of cDCE are within the historical range of concentrations.



- VC concentrations for Zone B2 wells were reported to range from not reported above the laboratory reporting limit (T-10C and T-12C) to 0.72 µg/L (T-11C [Duplicate]). All reported concentrations of VC are within the historical range of concentrations.
- Freon 113 concentrations for Zone B2 wells were reported to range from not reported above the laboratory reporting limit (T-12C) to 55 µg/L (T-10C). Presence of Freon 113 in these wells is associated with offsite contamination, indicating a possible impact to these Zone B2 wells by offsite sources.
- Concentrations for other CoCs were either reported below reporting limits or less than MCLs.

3.2.3 Off-site Groundwater Analytical Data

The VOC results for the October 2021 monitoring events for the following nearby sites were provided to Northrop Grumman and reviewed during the preparation of this annual report:

- Philips 811 Arques former Signetics site (RWQCB ID SL721141219 /USEPA ID CAD070466479);
- Advanced Micro Devices (AMD) property: 915 DeGuigne Drive (Department of Toxic Substance Control [DTSC] ID 43360095);
- Advanced Micro Devices (AMD) property: 901/902 Thompson Place Facility (RWQCB ID SL720041205/USEPA ID CAD048634059) sites;
- Offsite Operable Unit (OOU), a combined area downgradient of the other sites (RWQCB ID T10000005145/USEPA ID multiple) and;
- Stewart Drive Operable Unit (SDOU) Subunits 3 and 4, CSOU, Subunit 1 and Subunit 2 & 999 Arques.

The October 2021 reported data indicates that the neighboring Philips 811 Arques former Signetics site continues to report VOC impacts in groundwater with maximum concentrations of TCE reported at 1,100 µg/L (S146A) and cDCE reported at 57,000 µg/L (S140A). Both wells are located west-southwest of TRW Microwave in an area of reported groundwater extraction (Locus, 2016). A table showing nearby off-site monitoring wells with groundwater data and copies of the tables provided by the other properties are in **Appendix G**.

VOC data for the AMD 901/902 Thompson Place site, located upgradient of the Site, indicate a maximum TCE concentration of 63 µg/L (23S) for Zone A and 210 µg/L (23D) for Zone B1.

TCE concentrations on the AMD 915 DeGuigne Drive site, located downgradient of the Site, indicate a maximum of 71 µg/L (53-S) for Zone A and 81 µg/L (41-D) for Zone B1.

TCE concentrations on the OOU site, located downgradient of the Site, indicate a maximum of 94 µg/L (S072A) for Zone A and 300 µg/L (S077B1) for Zone B1.

TCE concentrations on the Stewart Drive Operable Unit site, located upgradient of the Site, indicate a maximum of 190 µg/L (SU4A-1 and SU4A-5) for Zone A and 170 µg/L (73B1) for Zone B1.



TCE concentrations on the Mohawk Laboratories site, located upgradient of the Site, indicate a maximum of 300 µg/L (RCW-01B) for Zone A, Subunit 1, and 460 µg/L (PBMW-12), for Zone A, Subunit 2.

The VOC concentrations observed in wells along the upgradient Site boundary were reported as attributing to the migration of contamination from upgradient properties such as Mohawk Laboratories (SL20201820) and AMD (Burns & McDonnell, 2020). The data reported for the upgradient wells is consistent with the observations regarding migration of contamination from upgradient properties (**Appendix F**).

4 Waste Management

Wastewater generated during groundwater monitoring activities was temporarily stored on site before being transferred for offsite treatment or disposal at a USEPA-approved facility. The non-hazardous waste disposal manifest for wastewater transferred off-site during the annual monitoring period is in **Appendix H**.

5 Conclusions

Groundwater monitoring data collected through 2021 support the following conclusions:

- Groundwater movement generally flows to the north with slight variability between Zones A, B1, and B2.
- Impact to the Site from off-site sources continues to be reported in Zones A, B1, and B2. This continued migration of VOC-impacted groundwater onto the Site from upgradient sources complicates long-term achievement of Site cleanup goals.
- Based on the additional parameters and field parameters collected from selected wells, reduction of chlorinated compounds is ongoing at the site.

6 Recommendations

Based on these conclusions, the following action(s) are recommended:

- Continue annual groundwater monitoring to monitor the impacts from offsite sources.

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Figures

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Potentiometric Surface Contours, Zone A – October 2021

Figure 4 – Potentiometric Surface Contours, Zone B1, HSU 3 – October 2021

Figure 5 – Potentiometric Surface Contours, Zone B1, HSUs 1 and 2 – October 2021

Figure 6 – Potentiometric Surface Contours, Zone B2 – October 2021

Figure 7 – Analytical Results Map – Zone A

Figure 8 – Analytical Results Map – Zone B1

Figure 9 – Analytical Results Map – Zone B2

Figure 10 – TCE Concentrations vs. Time – Zone A Wells - T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A

Figure 11 – cDCE Concentrations vs. Time – Zone A Wells - T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A

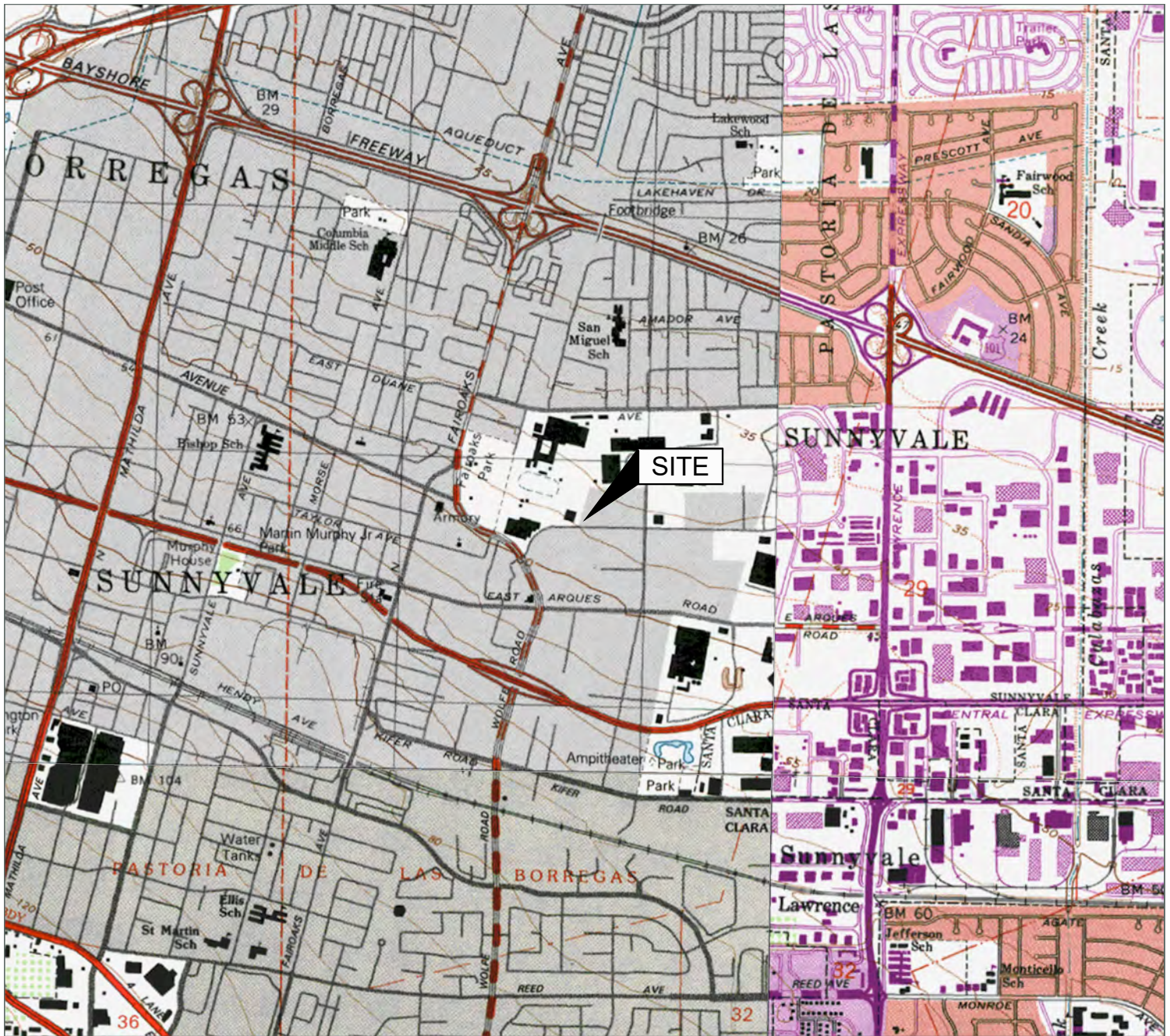
Figure 12 – TCE Concentrations vs. Time – Zone B1 Wells - T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B, T-25Bs and T-25Bd

Figure 13 – cDCE Concentrations vs. Time – Zone B1 Wells - T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B T-25Bs and T-25Bd

Figure 14 – TCE Concentrations vs. Time – Zone B2 Wells - T-2C, T-10C, T-11C, and T-12C

Figure 15 – cDCE Concentrations vs. Time – Zone B2 Wells - T-2C, T-10C, T-11C, and T-12C

Figure 16 – Chlorinated Ethene Concentrations - Across Site, Zone A – T-7A, T-13A, T-14A, T-8A, T-15A, T-16A, and T-9A

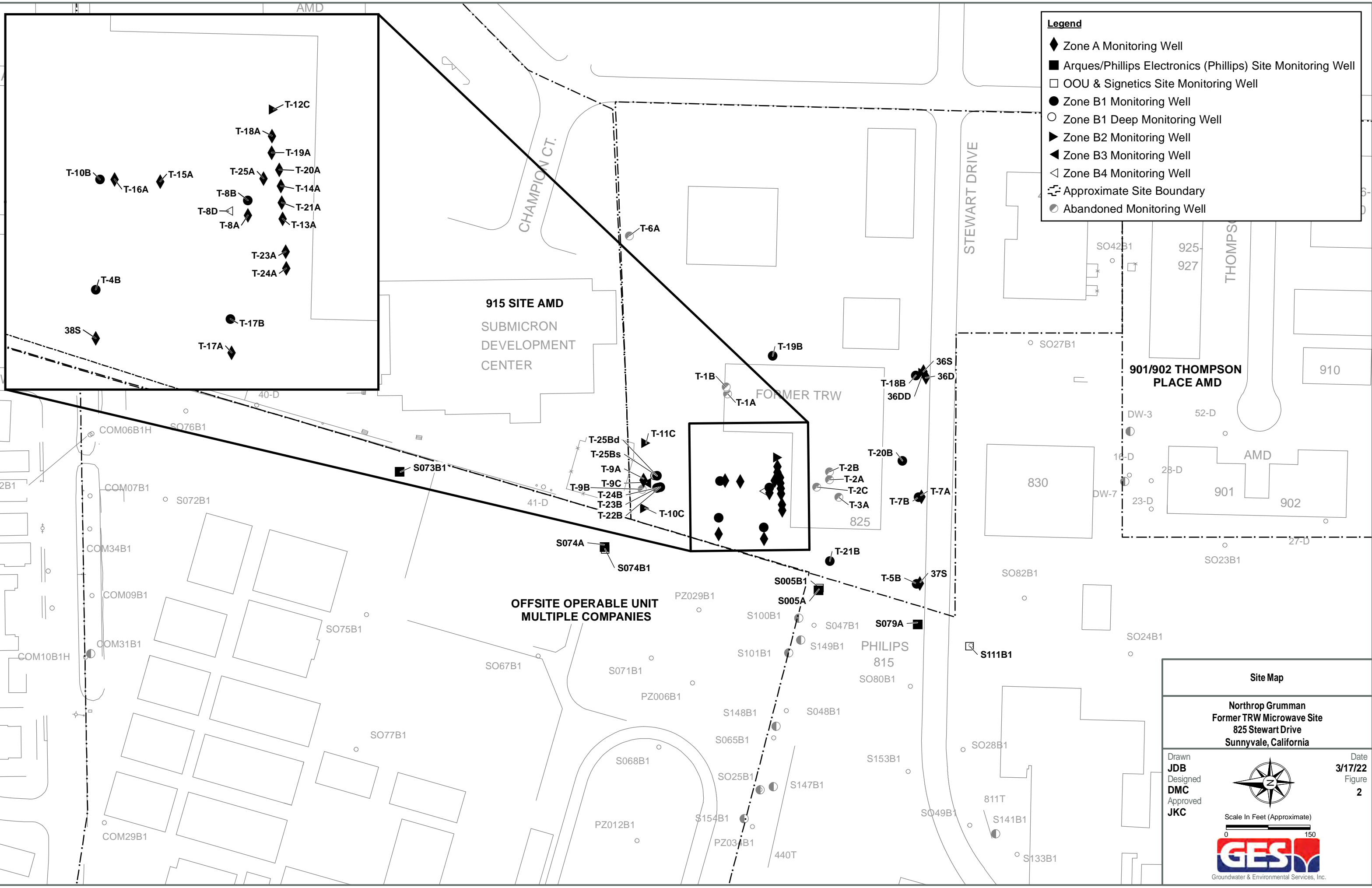


Source:
 USGS 7.5 Minute Series
 Topographic Quadrangle, 1997
 Mountain View, California
 Contour Interval = 5'
 Township - 6S
 Range - 1W



Site Location Map	
Northrop Grumman Former TRW Microwave Site 825 Stewart Drive Sunnyvale, California	
Drawn J.D.B. Designed J.K.C. Approved T.W.	Date 03/01/22 Figure 1
 Scale In Feet  	

L:\Projects\NorthropGrumman\Microwave\GIS\INGC_Microwave_SM.mxd - Scale 1:600 - 3/17/2022 2:25:00 PM - jbarnard - NAD 1983 StatePlane California III FIPS 0403 Feet



Legend

- ◆ Zone A Monitoring Well
- Arques/Phillips Electronics (Phillips) Site Monitoring Well
- OOU & Signetics Site Monitoring Well
- Zone B1 Monitoring Well
- Zone B1 Deep Monitoring Well
- ▶ Zone B2 Monitoring Well
- ◀ Zone B3 Monitoring Well
- ◁ Zone B4 Monitoring Well
- - - Approximate Site Boundary
- Abandoned Monitoring Well

Site Map

**Northrop Grumman
Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, California**

Drawn
JDB
Designed
DMC
Approved
JKC

Date
3/17/22
Figure
2

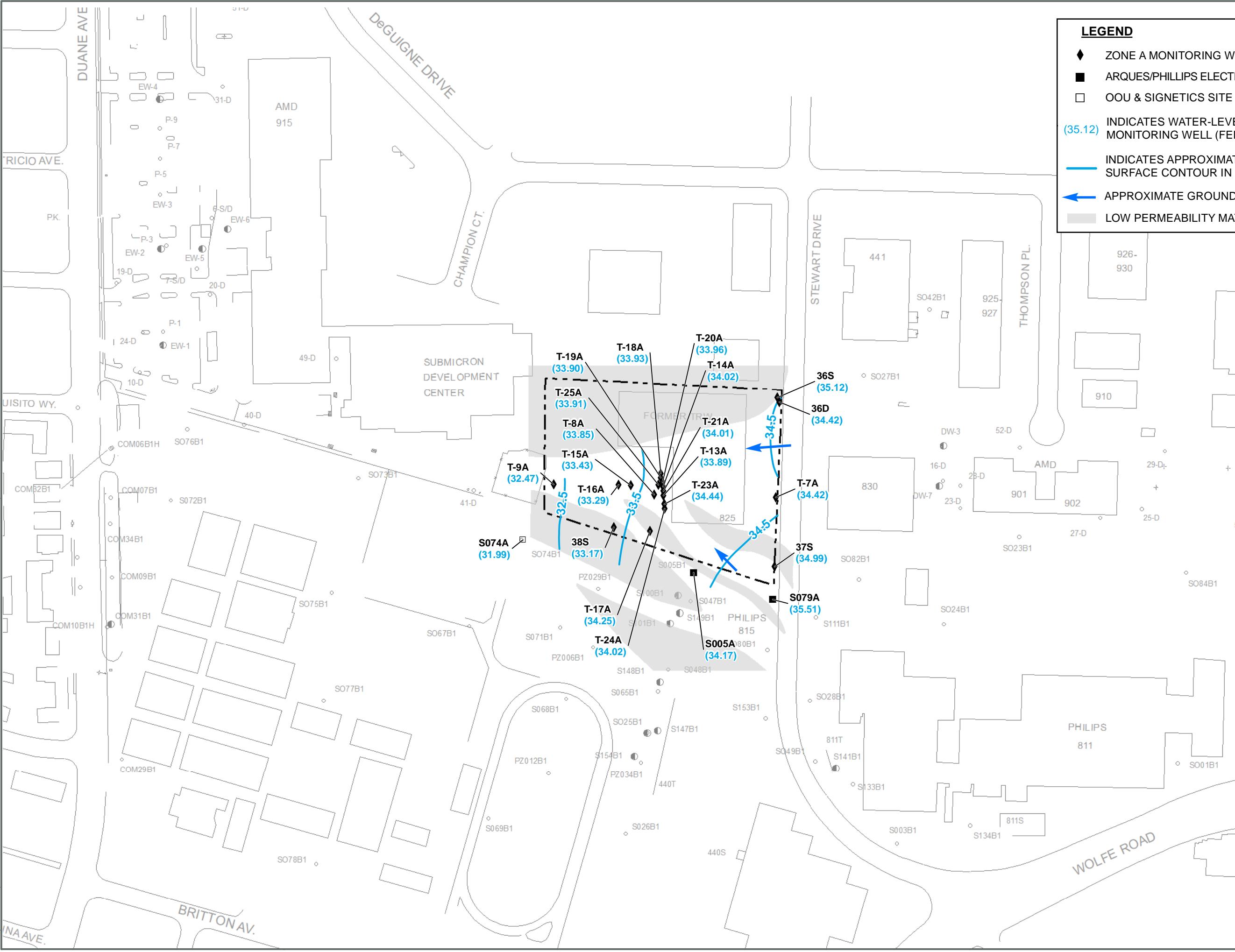
Scale In Feet (Approximate)
0 150

GES
Groundwater & Environmental Services, Inc.

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LEGEND

- ◆ ZONE A MONITORING WELL
- ARQUES/PHILLIPS ELECTRONICS (PHILLIPS) SITE MONITORING WELL
- OOU & SIGNETICS SITE MONITORING WELL
- (35.12) INDICATES WATER-LEVEL ELEVATION IN ZONE A MONITORING WELL (FEET, MSL)
- INDICATES APPROXIMATE POTENTIOMETRIC SURFACE CONTOUR IN ZONE A
- ← APPROXIMATE GROUNDWATER FLOW DIRECTION
- LOW PERMEABILITY MATERIAL



**Potentiometric Surface Contour Map
Zone A - October 2021**

**Northrop Grumman
Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, California**

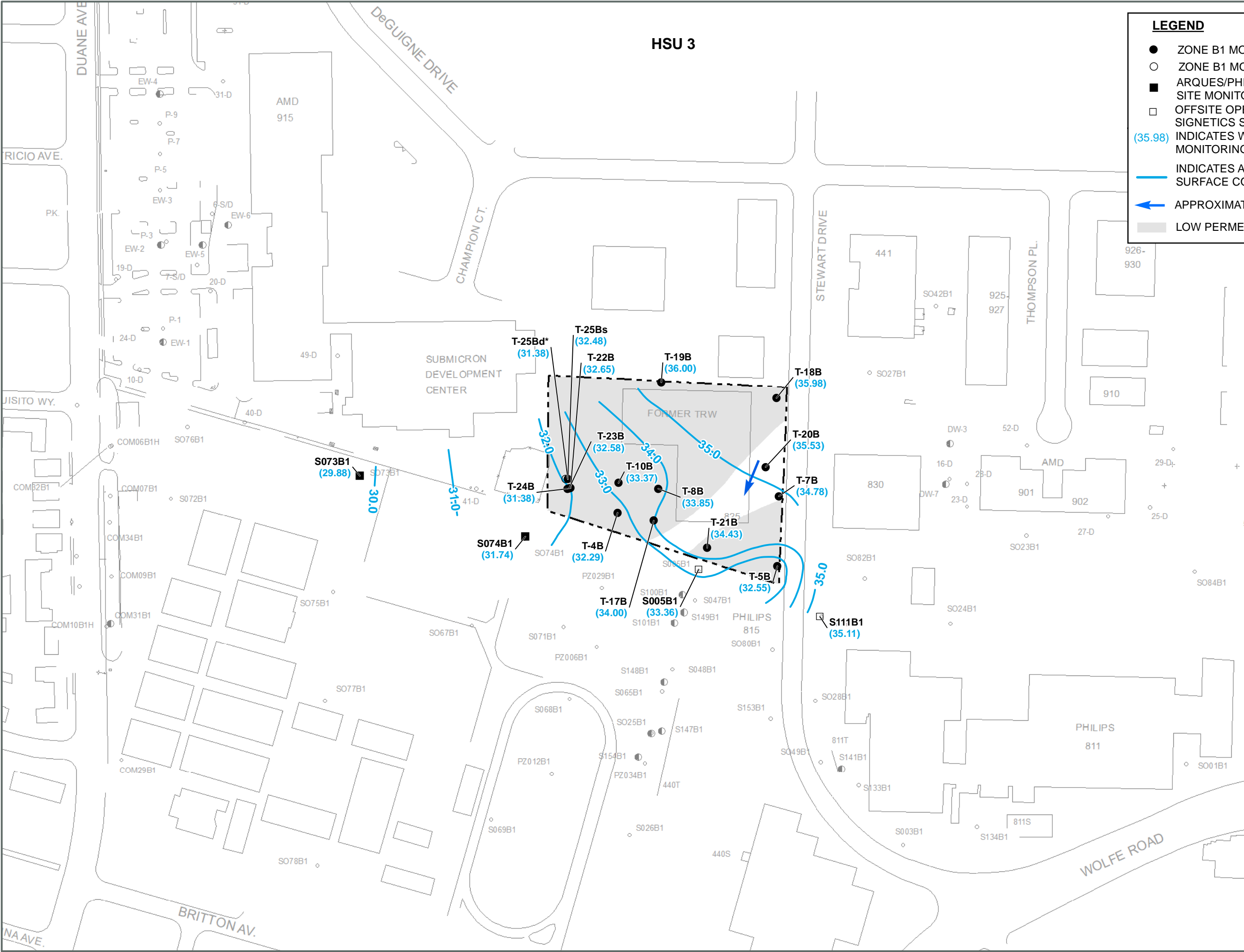
Drawn
JDB
Designed
DMC
Approved
JKC

Date
3/1/22
Figure
3

Scale In Feet (Approximate)
0 200

GES
Groundwater & Environmental Services, Inc.

L:\Projects\NorthropGrumman\Microwave\GIS\INGC_Microwave_GWE_Zone_HSU3_B1_202110.mxd - Scale 1:2,400 - 3/1/2022 8:13:44 AM - jbarnard - NAD 1983 StatePlane California III FIPS 0403 Feet



HSU 3

LEGEND

- ZONE B1 MONITORING WELL
- ZONE B1 MONITORING WELL
- ARQUES/PHILLIPS ELECTRONICS (PHILLIPS) SITE MONITORING
- OFFSITE OPERABLE UNIT (OOU) & SIGNETICS SITE MONITORING WELL
- (35.98) INDICATES WATER-LEVEL ELEVATION IN ZONE A MONITORING WELL (FEET, MSL)
- INDICATES APPROXIMATE POTENTIOMETRIC SURFACE CONTOUR IN ZONE B1
- ← APPROXIMATE GROUNDWATER FLOW DIRECTION
- LOW PERMEABILITY MATERIAL

NOTES:

HSU HYDROSTRATIGRAPHIC UNIT
 MSL MEAN SEA LEVEL
 * NOT USED FOR CONTOURING

HSU 3 IS AT A SHALLOWER DEPTH THAN HSU 1 AND 2 WHICH WERE THE FIRST TO BE ESTABLISHED IN ZONE B1 (2018, AECOM)

*T-25Bd IS SCREENED IN A DEEPER SECTION OF ZONE B1 AND IS NOT USED FOR CONTOURING

**Potentiometric Surface Contours Map
 Zone B1 - HSU 3 - October 2021**

**Northrop Grumman
 Former TRW Microwave Site
 825 Stewart Drive
 Sunnyvale, California**

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3/1/22
 Figure
4

Scale In Feet (Approximate)
 0 200

L:\Projects\NorthropGrumman\Microwave\GIS\INGC_Microwave_GWE_Zone_HSU1-2_B1_202110.mxd - Scale 1:2,400 - 3/1/2022 8:25:50 AM - jbarnard - NAD 1983 StatePlane California III FIPS 0403 Feet

HSU 1 (10 - 20 FEET MSL)

HSU 2 (0 - 10 FEET MSL)

- LEGEND**
- ZONE B1 MONITORING WELL
 - ZONE B1 DEEP MONITORING WELL
 - ARQUES/PHILLIPS ELECTRONICS (PHILLIPS) SITE MONITORING WELL
 - OFFSITE OPERABLE UNIT (OOU) & SIGNETICS SITE MONITORING WELL
 - INDICATES WATER-LEVEL ELEVATION IN ZONE B1 MONITORING WELL (FEET, MSL)
 - INDICATES APPROXIMATE POTENTIOMETRIC SURFACE CONTOUR IN ZONE B1
 - ← APPROXIMATE GROUNDWATER FLOW DIRECTION
 - LOW PERMEABILITY MATERIAL

- NOTES:**
- HSU HYDROSTRATIGRAPHIC UNIT
 - MSL MEAN SEA LEVEL
 - * NOT USED FOR CONTOURING
 - *T-25Bd IS SCREENED IN A DEEPER SECTION OF ZONE B1 AND IS NOT USED FOR CONTOURING

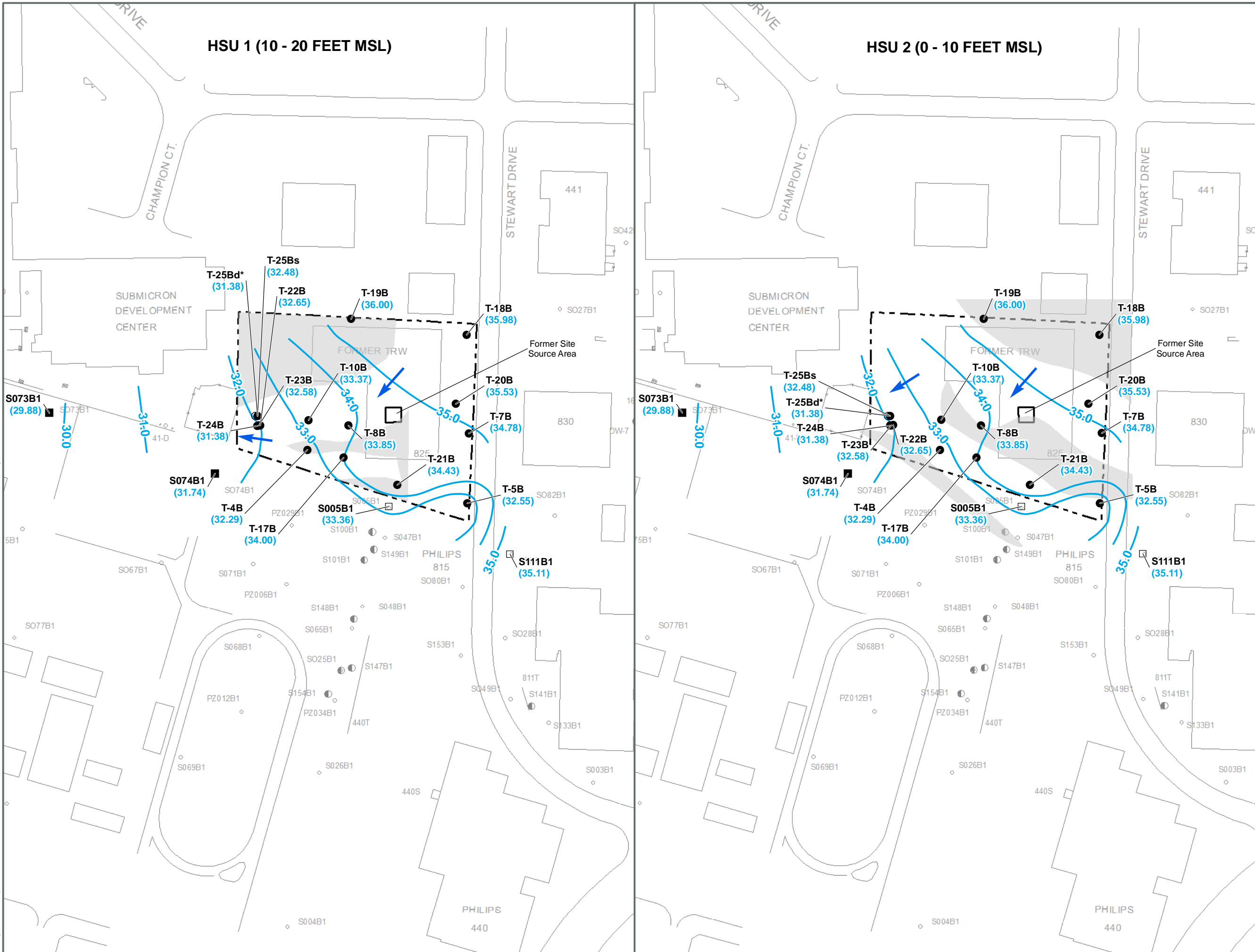
Potentiometric Surface Contours Map Zone B1 HSUs 1 and 2 - October 2021

**Northrop Grumman
Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, California**

Drawn
JDB
Designed
DMC
Approved
JKC








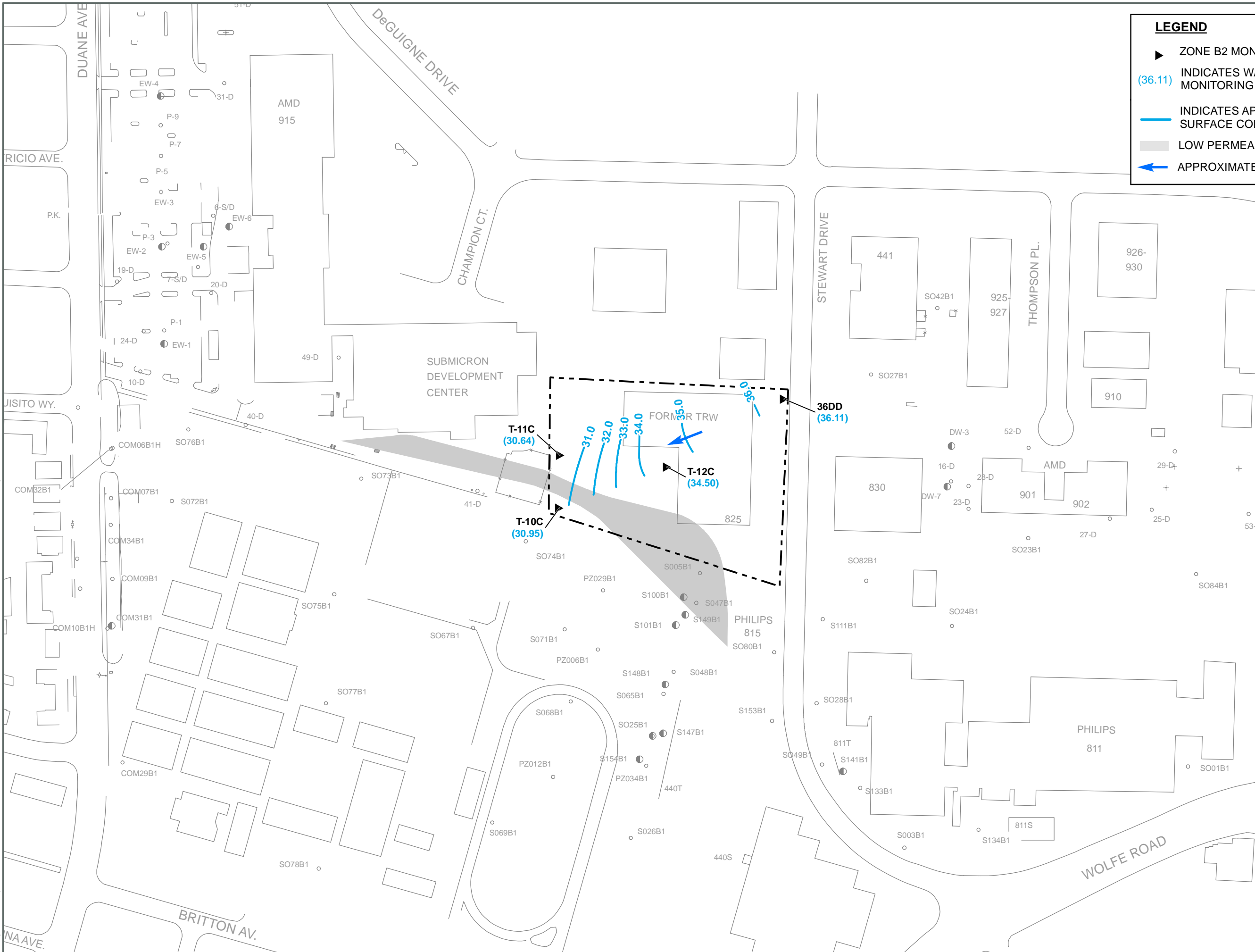
Date
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Figure
5



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LEGEND

-  ZONE B2 MONITORING WELL
-  (36.11) INDICATES WATER-LEVEL ELEVATION IN ZONE A MONITORING WELL (FEET, MSL)
-  INDICATES APPROXIMATE POTENTIOMETRIC SURFACE CONTOUR IN ZONE B2
-  LOW PERMEABILITY MATERIAL
-  APPROXIMATE GROUNDWATER FLOW DIRECTION



**Potentiometric Surface Contours Map
Zone B2 - October 2021**

**Northrop Grumman
Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, California**

Drawn JDB Designed DMC Approved JKC	Date 3/1/22 Figure 6
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Scale In Feet (Approximate)




Groundwater & Environmental Services, Inc.

L:\Projects\NorthropGrumman\Microwave\GIS\INGC_Microwave_AR_Zone_A_202110.mxd - Scale 1:2,400 - 3/1/2022 8:33:45 AM - jbarnd - NAD 1983 StatePlane California III FIPS 0403 Feet

Legend

- ◆ ZONE A MONITORING WELL
- ARQUES/PHILLIPS ELECTRONICS (PHILLIPS) SITE MONITORING WELL
- OOU & SIGNETICS SITE MONITORING WELL
- ⊞ SITE BOUNDARY

Notes:
 Concentrations are reported in micrograms per liter (ug/L).
 Concentrations above California Maximum Contaminant Levels (MCLs) or federal MCLs are shown in **bold**.
 ND<# - Analyte was reported as Non-detect (ND) for the indicated reporting limit.
 J - Laboratory qualifier, indicates result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
 TCE - Trichloroethene
 cDCE - cis-1,2-Dichloroethene
 VC - Vinyl Chloride
 Freon 113 - 1,1,2-trichloro-1,2,2-trifluoroethane
 Dup - Field Duplicate
 NS - Not Sampled
 NA - Not Analyzed
 *Analytical Results Provided by AMD, Phillips, or OOU & Signetics

T-8A
10/12/21

TCE	78
cDCE	21
VC	0.39 J
Freon 113	0.81

T-25A
10/11/21

TCE	71
cDCE	60
VC	4.7
Freon 113	ND<0.50

T-19A
10/11/21

TCE	0.20 J
cDCE	6.8
VC	17
Freon 113	ND<0.50

T-14A
10/11/21

TCE	29
cDCE	49
VC	27
Freon 113	ND<0.50

36S*
10/15/21

TCE	56
cDCE	12
VC	0.58
Freon 113	ND<0.50

T-15A
10/12/21

TCE	78
cDCE	61
VC	ND<1.0
Freon 113	ND<1.0

36D*
10/15/21

TCE	5.4
cDCE	58
VC	0.78
Freon 113	ND<0.50

T-9A
10/11/21

TCE	48
cDCE	110
VC	ND<0.50
Freon 113	ND<0.50

T-13A
10/11/21

TCE	61
cDCE	29
VC	2.4
Freon 113	ND<1.0

S074A
NA

TCE	NS
cDCE	NS
VC	NS
Freon 113	NS

T-7A
10/12/21

TCE	95
cDCE	39
VC	ND<1.0
Freon 113	1.2

T-16A
10/12/21

TCE	54
cDCE	61
VC	0.51 J
Freon 113	ND<1.0

37S*
10/15/21

TCE	40
cDCE	11
VC	0.76
Freon 113	0.62

38-S
10/12/21

TCE	58
cDCE	88
VC	1.3
Freon 113	1.0

T-17A
10/12/21

TCE	40
cDCE	8.2
VC	6.2
Freon 113	ND<0.50

S005A*
11/5/21

TCE	170
cDCE	78
VC	ND<0.72
Freon 113	NA

T-23A
10/11/21

TCE	53
cDCE	16
VC	6.8
Freon 113	ND<0.50

S079A
11/3/21

TCE	36
cDCE	7.5
VC	ND<0.18
Freon 113	NA

Analytical Results Map
Zone A - October 2021

Northrop Grumman
Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, California

Drawn
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JKC

Date
3/1/22
Figure
7

Scale In Feet (Approximate)
0 200

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LEGEND

- ZONE B1 MONITORING WELL
- ZONE B1 DEEP MONITORING WELL
- ARQUES/PHILLIPS ELECTRONICS (PHILLIPS) SITE MONITORING WELL
- OFFSITE OPERABLE UNIT (OOU) & SIGNETICS SITE MONITORING WELL
- ⊞ SITE BOUNDARY

T-25Bd
10/12/21

TCE	170
cDCE	9.9
VC	ND<2.0
Freon 113	ND<2.0

T-25Bs
10/12/21

TCE	11
cDCE	400
VC	42
Freon 113	ND<5.0

T-10B
10/12/21

TCE	22
cDCE	93
VC	51
Freon 113	ND<1.0

T-19B
10/13/21

TCE	50
cDCE	1.3
VC	ND<0.50
Freon 113	0.98

T-8B
10/12/21

TCE	18
cDCE	410
VC	11
Freon 113	1.0

T-18B
10/13/21

TCE	16
cDCE	1.0
VC	ND<0.50
Freon 113	0.87

S073B1*
11/12/21

TCE	1.3
cDCE	55
VC	65
Freon 113	ND<0.50

T-24B
10/12/21

TCE	7.8
cDCE	49
VC	ND<0.50
Freon 113	ND<0.50

T-23B
10/12/21

TCE	70
cDCE	120
VC	ND<2.0
Freon 113	ND<2.0

T-22B
10/12/21

TCE	78
cDCE	140
VC	0.52
Freon 113	0.17 J

S074B1*
11/15/21

TCE	260
cDCE	80
VC	ND<2.5
Freon 113	6.3

T-4B
10/12/21

TCE	3.6
cDCE	140
VC	ND<2.0
Freon 113	ND<2.0

T-17B
10/12/21

TCE	160
cDCE	240
VC	ND<2.0
Freon 113	6.3

S005B1*
11/5/21

TCE	320
cDCE	200
VC	ND<1.8
Freon 113	NA

T-21B
10/13/21

TCE	410
cDCE	260
VC	ND<5.0
Freon 113	14

T-20B
10/13/21

TCE	170
cDCE	370
VC	6.3
Freon 113	ND<5.0

T-7B
10/12/21

TCE	130
cDCE	7.0
VC	ND<2.0
Freon 113	2.7

T-5B
10/13/21

TCE	1,400
cDCE	95
VC	ND<10
Freon 113	200

S111B1*
11/2/21

TCE	300
cDCE	230
VC	ND<0.90
Freon 113	NA

Notes:
 Concentrations are reported in micrograms per liter (ug/L).
 Concentrations above California Maximum Contaminant Levels (MCLs) or federal MCLs are shown in **bold**.
 ND<# - Analyte was reported as Non-detect (ND) for the indicated reporting limit.
 J - Laboratory qualifier, indicates result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
 TCE - Trichloroethene
 cDCE - cis-1,2-Dichloroethene
 VC - Vinyl Chloride
 Freon 113 - 1,1,2-trichloro-1,2,2-trifluoroethane
 Dup - Field Duplicate
 NA - Not Analyzed
 *Analytical Results Provided by AMD, Phillips, or OOU & Signetics

Analytical Results Map
Zone B1 - October 2021

Northrop Grumman
Former TRW Microwave Site
825 Stewart Drive
Sunnyvale, California

Drawn
JDB
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JKC

Date
3/1/22
Figure
8

Scale In Feet (Approximate)
0 200

L:\Projects\NorthropGrumman\Microwave\GIS\INGC_Microwave_AR_Zone_B2_202110.mxd - Scale 1:2,400 - 3/1/2022 9:20:56 AM - jbarnard - NAD 1983 StatePlane California III FIPS 0403 Feet

LEGEND

- ▶ ZONE B2 MONITORING WELL
- ▭ SITE BOUNDARY

Notes:
 Concentrations are reported in micrograms per liter (ug/L).
 Concentrations above California Maximum Contaminant Levels (MCLs) or federal MCLs are shown in **bold**.
 ND<# - Analyte was reported as Non-detect (ND) for the indicated reporting limit.
 J - Laboratory qualifier, indicates result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
 TCE - Trichloroethene
 cDCE - cis-1,2-Dichloroethene
 VC - Vinyl Chloride
 Freon 113 - 1,1,2-trichloro-1,2,2-trifluoroethane
 NA - Not Analyzed
 *Analytical Results Provided by AMD, Phillips, or OOU & Signetics

T-11C
 10/12/21

TCE	200
cDCE	17
VC	ND<2.0
Freon 113	5.0

T-10C
 10/12/21

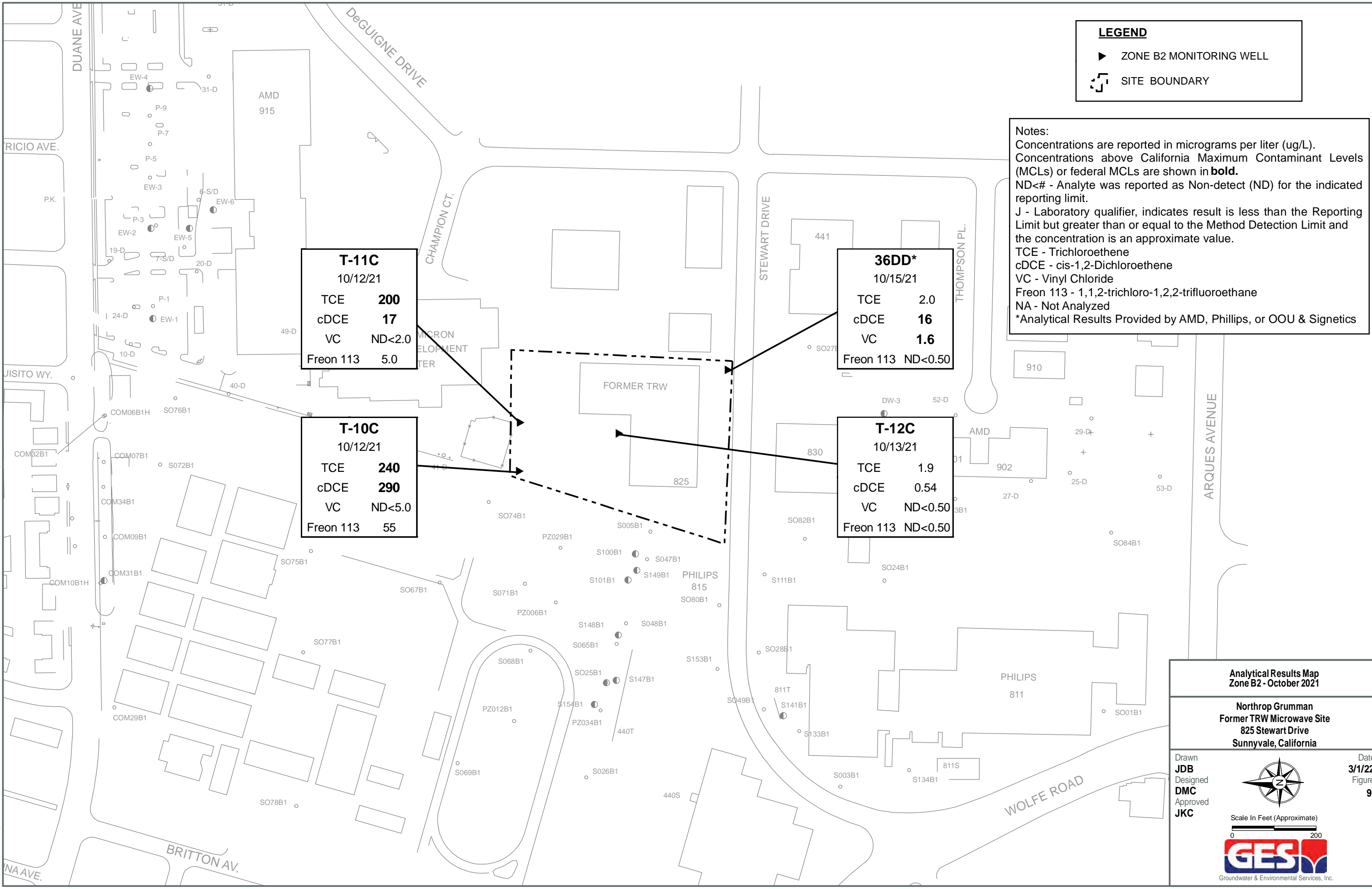
TCE	240
cDCE	290
VC	ND<5.0
Freon 113	55

36DD*
 10/15/21

TCE	2.0
cDCE	16
VC	1.6
Freon 113	ND<0.50

T-12C
 10/13/21

TCE	1.9
cDCE	0.54
VC	ND<0.50
Freon 113	ND<0.50



Analytical Results Map
 Zone B2 - October 2021

Northrop Grumman
 Former TRW Microwave Site
 825 Stewart Drive
 Sunnyvale, California

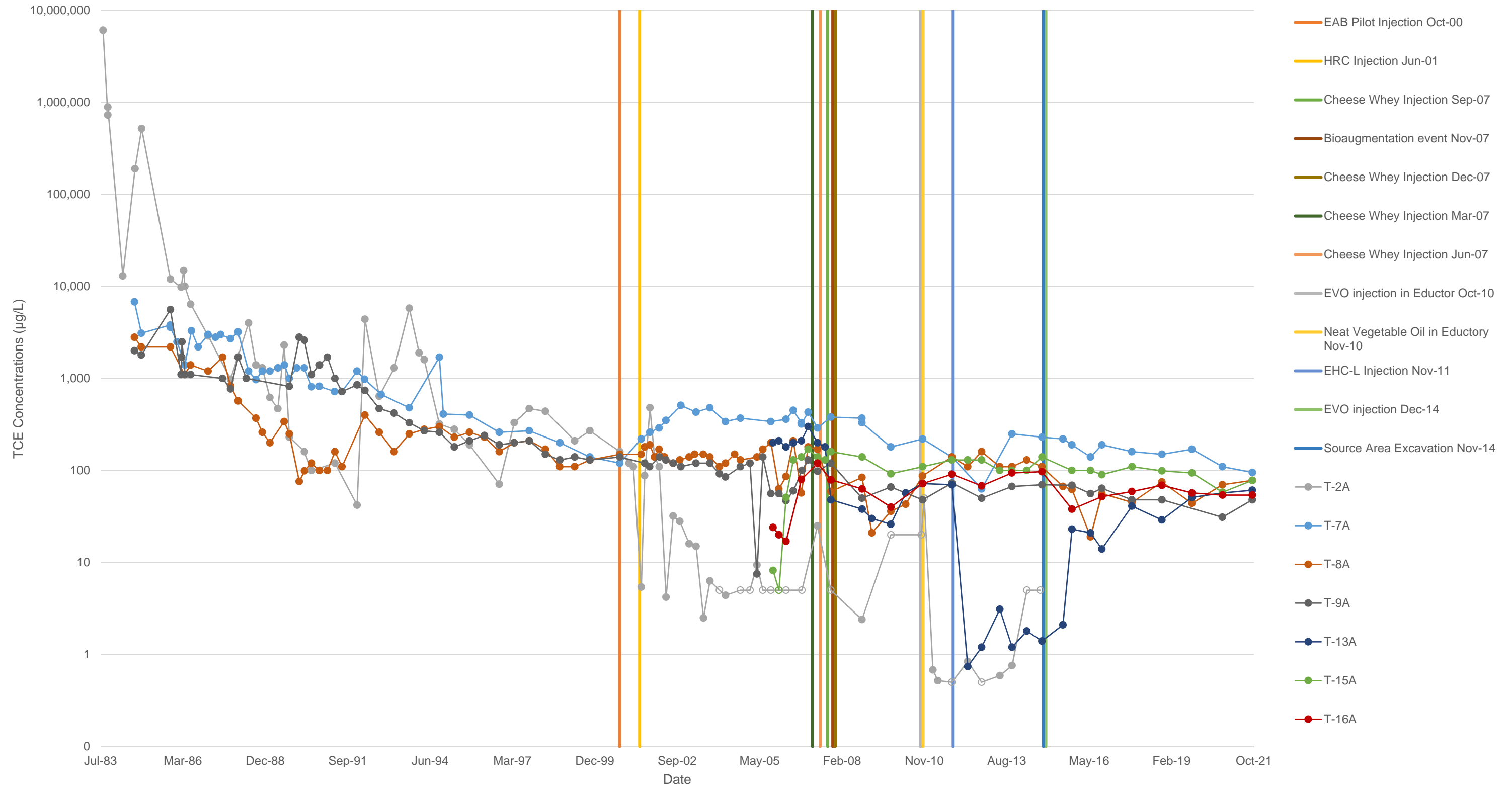
Drawn
JDB
 Designed
DMC
 Approved
JKC

Date
3/1/22
 Figure
9

Scale In Feet (Approximate)
 0 200

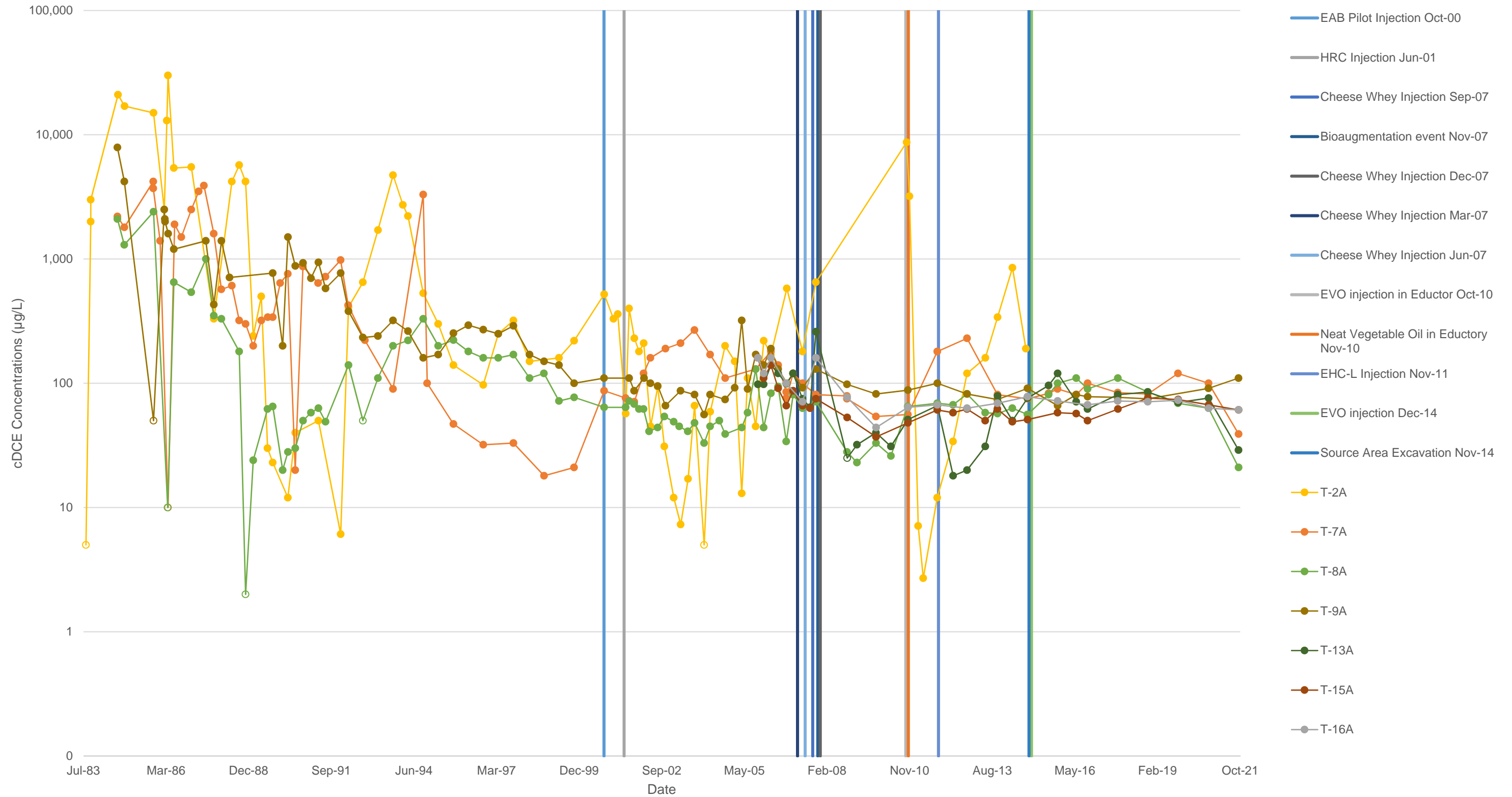
GES
 Groundwater & Environmental Services, Inc.

Figure 10
Trichloroethene (TCE) Concentrations vs. Time
Zone A Wells - T-2A, T-7A, T-8A, T-9A, T-13A, T-15A and T-16A



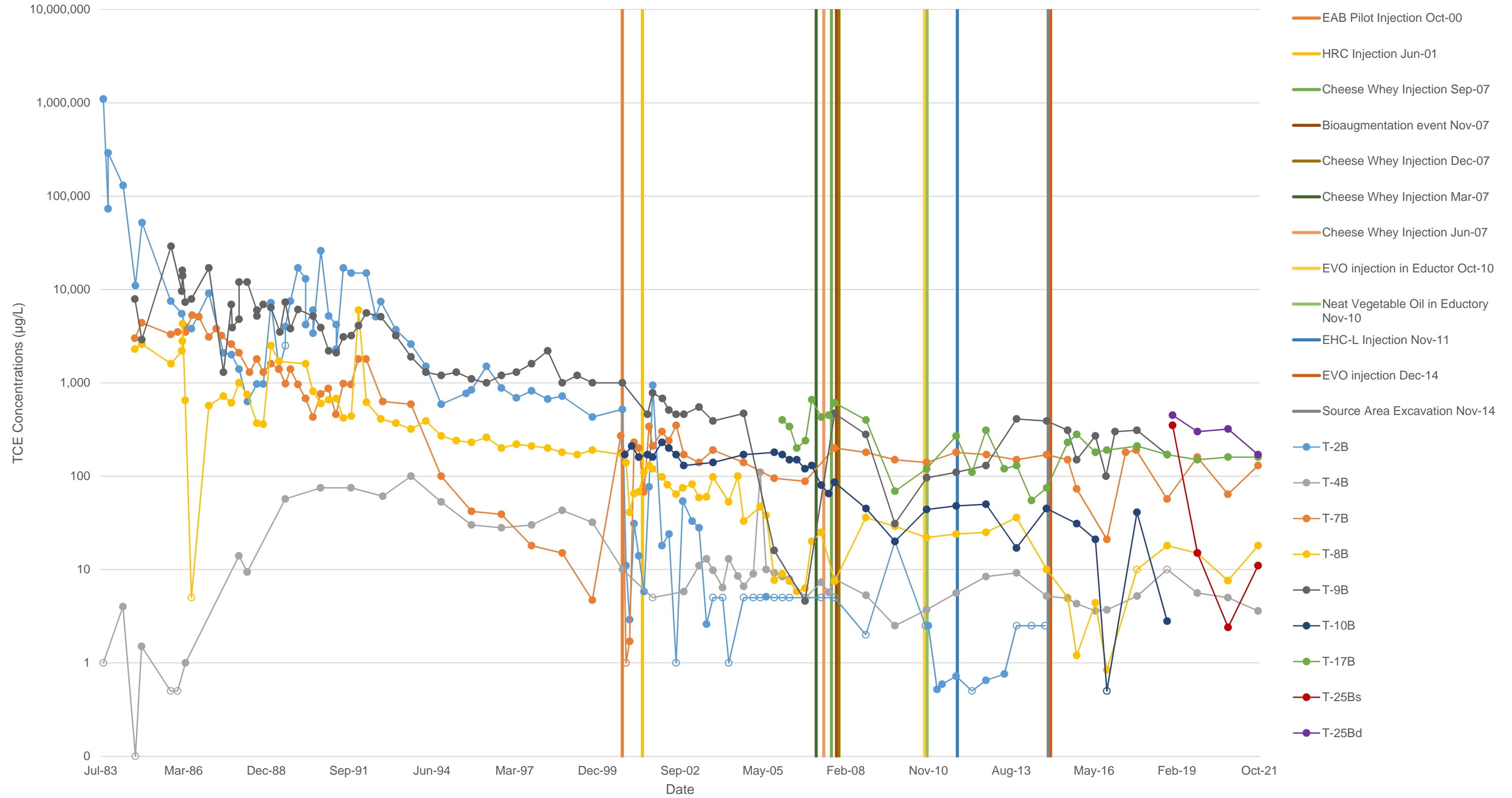
Notes: Open symbols indicate sample was non-detect, where no reporting limit was previously reported a default value of 0.1 was used.
 µg/L - micrograms per Liter, EAB - enhanced anaerobic bioremediation, HRC -Hydrogen Release Compound , EVO - emulsified vegetable oil, EHC-L - EHC© Liquid
 T-2A was abandoned in November 2014.

Figure 11
 cis-1,2-Dichloroethene (cDCE) Concentrations vs. Time
 Zone A Wells - T-2A, T-7A, T-8A, T-9A, T-13A, T-15A and T-16A



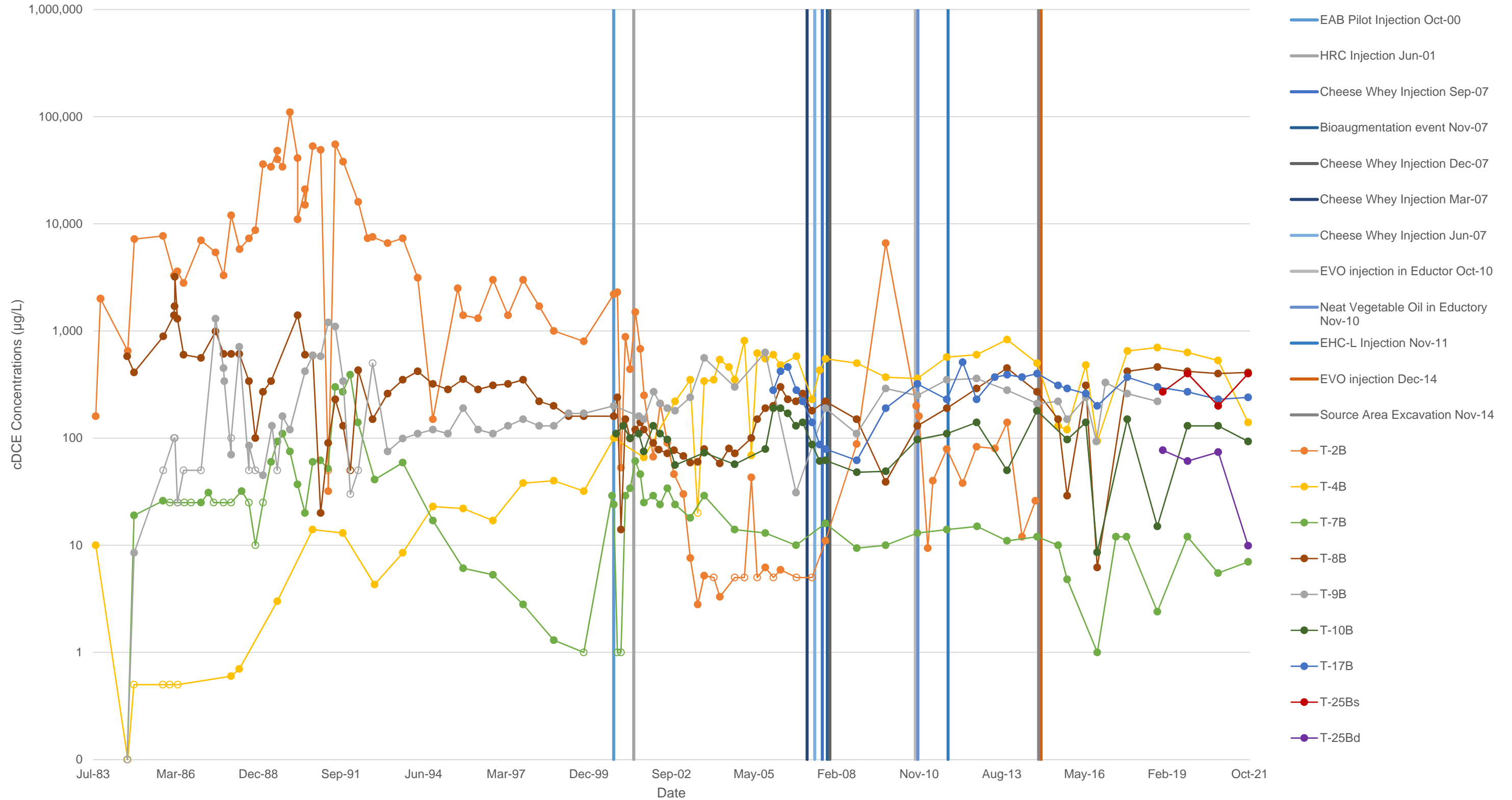
Notes: Open symbols indicate sample was non-detect, where no reporting limit was previously reported a default value of 0.1 was used.
 µg/L - micrograms per Liter, EAB - enhanced anaerobic bioremediation, HRC -Hydrogen Release Compound , EVO - emulsified vegetable oil, EHC-L - EHC© Liquid
 T-2A was abandoned in November 2014.

Figure 12
Trichloroethene (TCE) Concentrations vs. Time
Zone B1 Wells - T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B T-25Bs and T-25Bd



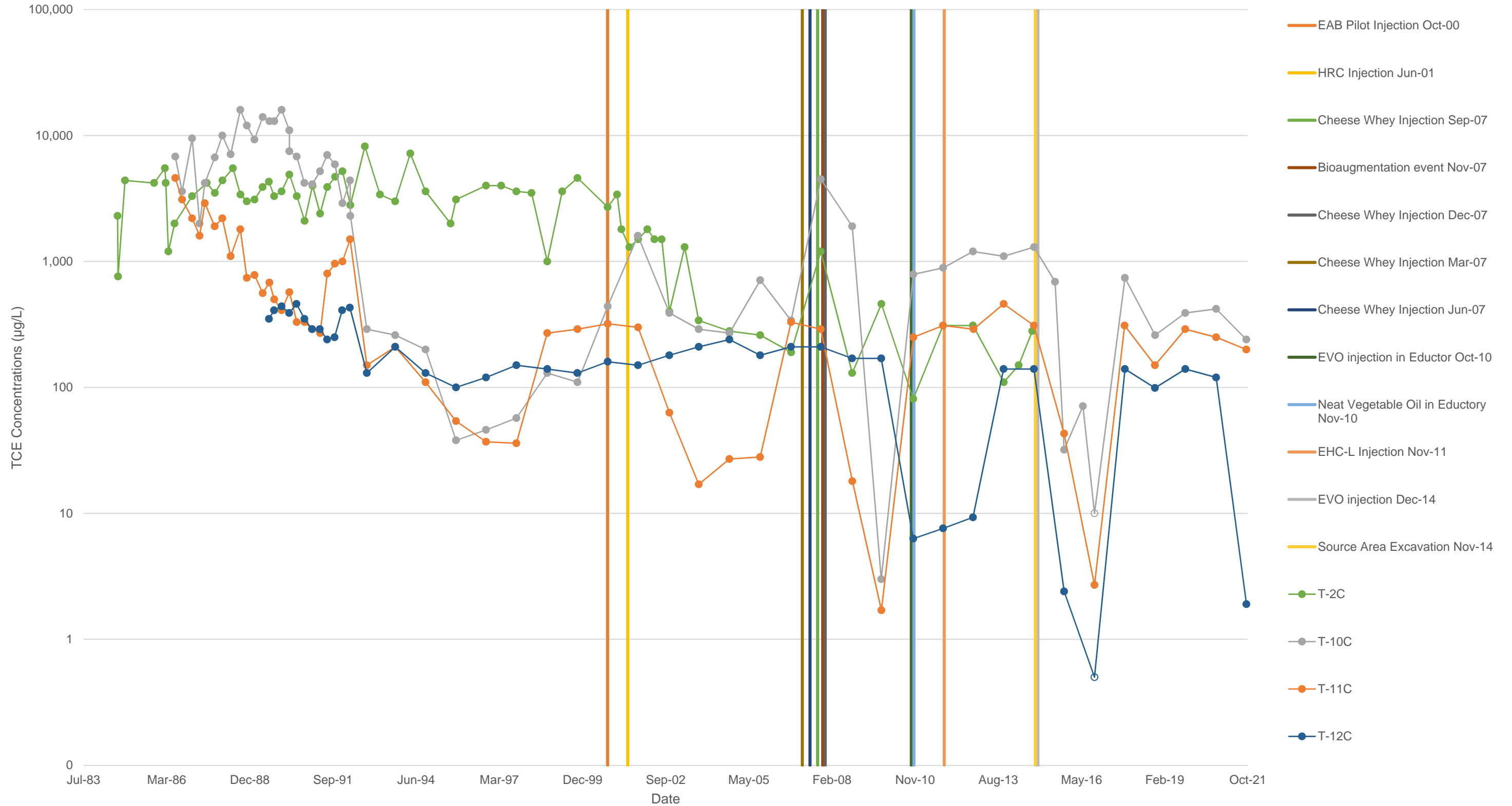
Notes: Open symbols indicate sample was non-detect, where no reporting limit was previously reported a default value of 0.1 was used.
 µg/L - micrograms per Liter, EAB - enhanced anaerobic bioremediation, HRC -Hydrogen Release Compound , EVO - emulsified vegetable oil, EHC-L - EHC© Liquid
 T-2B was abandoned in November 2014 and T-9B was abandoned November 2019.

Figure 13
cis-1,2-Dichloroethene (cDCE) Concentrations vs. Time
Zone B1 Wells - T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, T-17B T-25Bs and T-25Bd



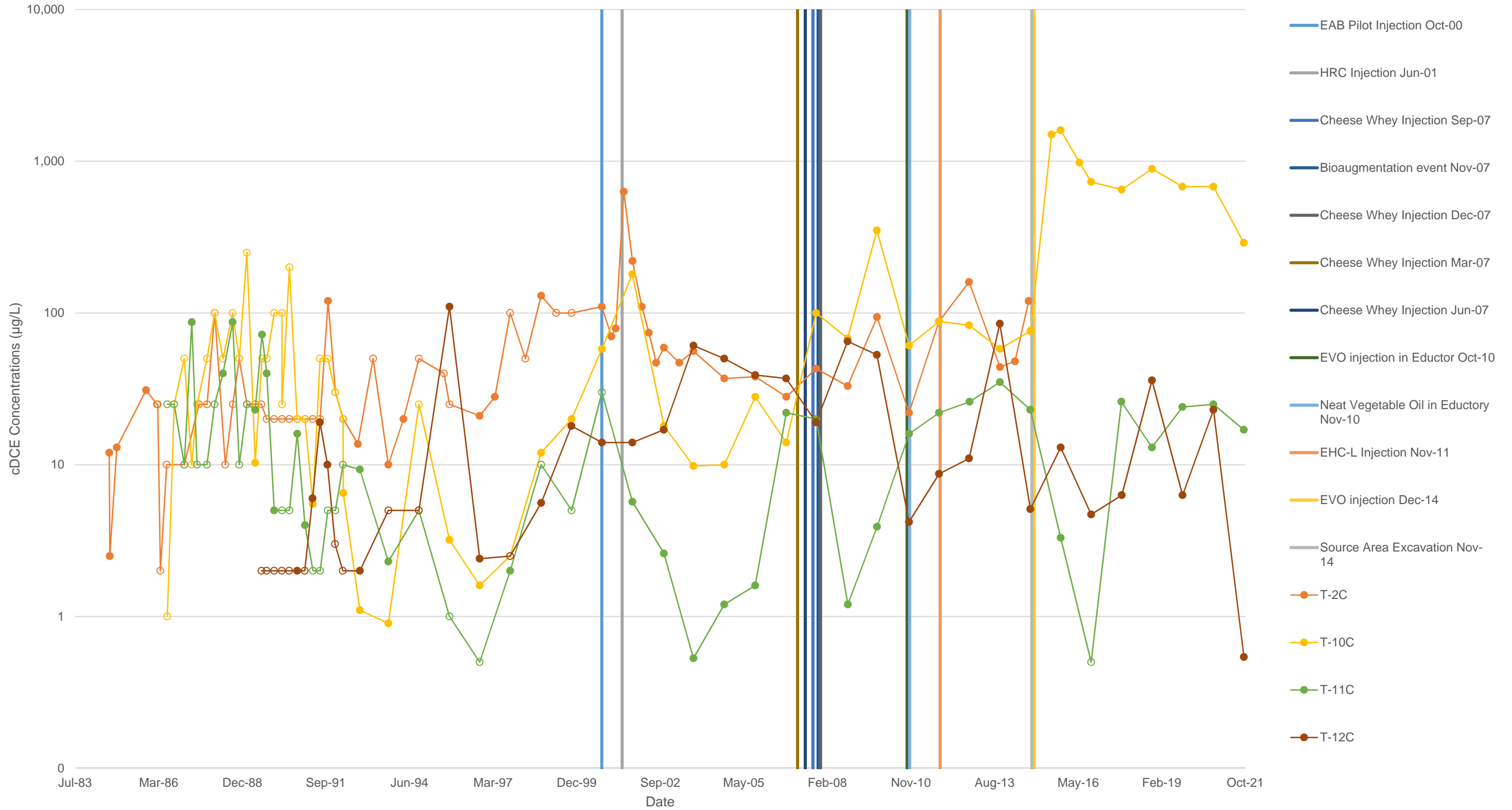
Notes: Open symbols indicate sample was non-detect, where no reporting limit was previously reported a default value of 0.1 was used.
 µg/L - micrograms per Liter, EAB - enhanced anaerobic bioremediation, HRC -Hydrogen Release Compound , EVO - emulsified vegetable oil, EHC-L - EHC© Liquid
 T-2B was abandoned in November 2014 and T-9B was abandoned in November 2019.

Figure 14
Trichloroethene (TCE) Concentrations vs. Time
Zone B2 Wells - T-2C, T-10C, T-11C, and T-12C



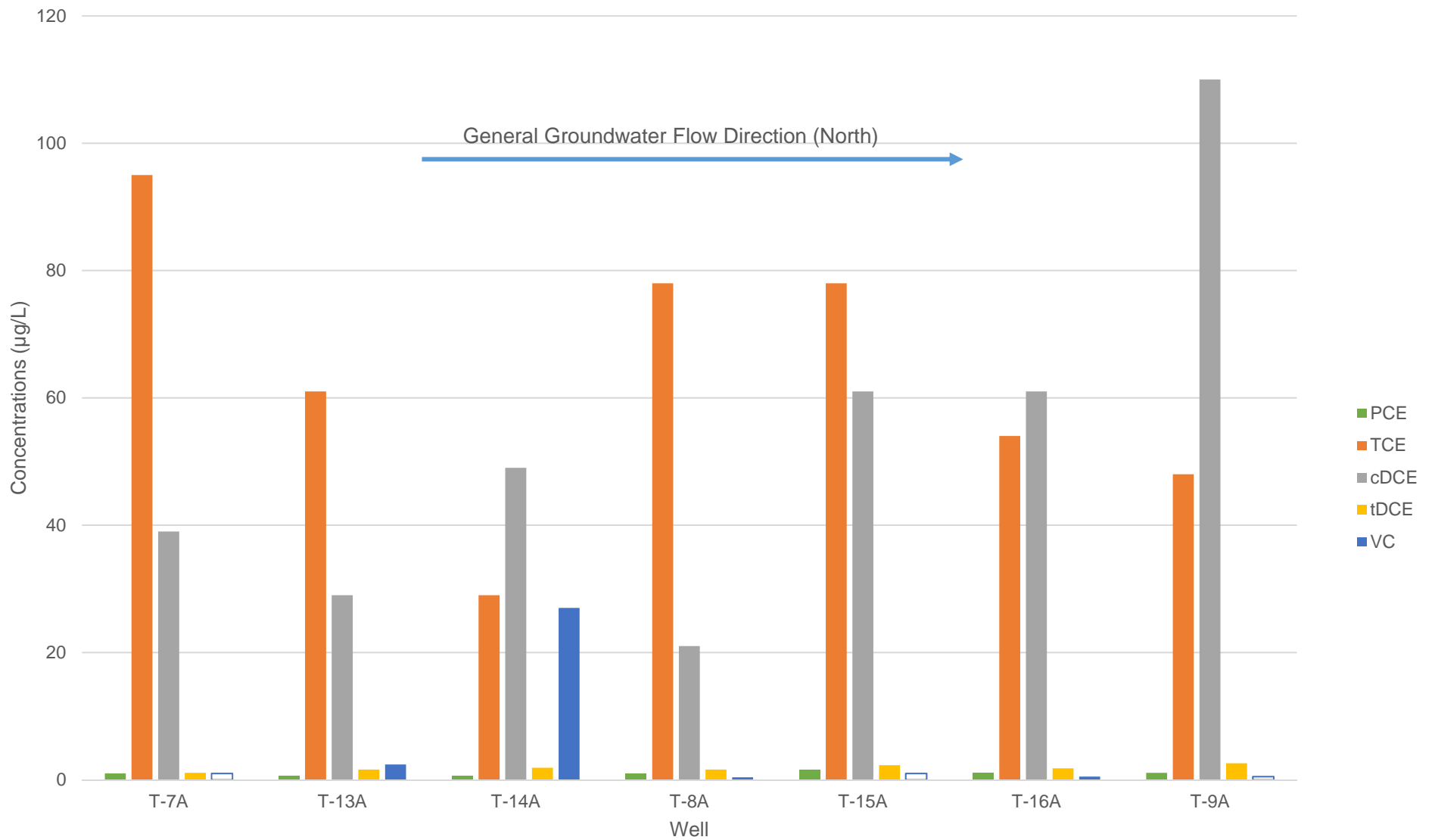
Notes: Open symbols indicate sample was non-detect, where no reporting limit was previously reported a default value of 0.1 was used.
 µg/L - micrograms per Liter, EAB - enhanced anaerobic bioremediation, HRC -Hydrogen Release Compound , EVO - emulsified vegetable oil, EHC-L - EHC© Liquid

Figure 15
cis-1,2-Dichloroethene (cDCE) Concentrations vs. Time
Zone B2 Wells - T-2C, T-10C, T-11C, and T-12C



Notes: Open symbols indicate sample was non-detect, where no reporting limit was previously reported a default value of 0.1 was used.
 µg/L - micrograms per Liter, EAB - enhanced anaerobic bioremediation, HRC -Hydrogen Release Compound , EVO - emulsified vegetable oil, EHC-L - EHC© Liquid

Figure 16
Chlorinated Ethene Concentrations - Across Site
Zone A Wells - T-7A, T-13A, T-14A, T-8A, T-15A, T-16A, and T-9A



Notes:

Distance between wells are not shown to scale.

Tetrachloroethene (PCE), Trichloroethene (TCE), cis-1,2-Dichloroethene (cDCE), trans-1,2-Dichloroethene (tDCE), Vinyl Chloride (VC)

µg/L - micrograms per Liter

Open bars indicate sample was non-detect, at reporting limit.

Tables

Table 1 – Well Completion and Sampling Information

Table 2 – Water-Level Elevation Measurements – October 2021

Table 3 – 2021 Groundwater Volatile Organic Compound Results

Table 4 – 2021 Groundwater Water Quality Parameters Results



Table 1
Well Completion and Sampling Information
 Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California

MONITORING PROGRAM										Annual GWM		MNA		
ANALYSES REQUESTED							Gauge	Field Parameters DO, ORP, pH, Cond., Temp., Turb.	Field Testing - Ferrous Iron & Manganese (Hach Field Test)	VOCs (µg/l)	Sulfate, Nitrate	TOC	Alkalinity	Dissolved Gases (Methan, ethane, ethene)
METHOD										EPA 8260B	EPA 300	EPA 9060A	SM 2320B	RSK-175
LABORATORY										Eurofins	Eurofins	Eurofins	Eurofins	Eurofins
CONTAINER TYPE										40 mL VOA	250 mL Poly	250 mL Amber	250 mL Poly	40 mL VOA
PRESERVATIVES										HCl	None	HCl	None	HCl
ANALYTICAL HOLDING TIMES										14 days	48 hours SHORT	28 days	14 days	14 days
NO. BOTTLES PER ANALYSIS							3	1	1	1	3			
WELL ID / SAMPLE LOCATION	Total Depth (ft)	WELL SCREENS TOP (ft bgs) BOTTOM (ft bgs)		GW ZONE	Well Diameter (inch)	SAMPLE/ PURGE METHOD								
T7A	20	8	20	A	4	Low flow	✓	✓	-	✓	-	-	-	-
T8A	19	8	19	A	4	Low flow	✓	✓	-	✓	-	-	-	-
T9A	19	7	19	A	4	Low flow	✓	✓	-	✓	-	-	-	-
T13A	20	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
T14A	20	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
T15A	20	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
T16A	20	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
T17A	20	10	20	A	2	Low flow	✓	✓	-	✓	-	-	-	-
T18A	22	12	22	A	1	-	✓	-	-	-	-	-	-	-
T19A	22	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
T20A	20	7	17	A	1	-	✓	-	-	-	-	-	-	-
T21A	20	10	20	A	2	-	✓	-	-	-	-	-	-	-
T22A	20	10	20	A	1	-	✓	-	-	-	-	-	-	-
T23A	20	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
T24A	20	10	20	A	1	-	✓	-	-	-	-	-	-	-
T25A	20	10	20	A	1	Low flow	✓	✓	-	✓	-	-	-	-
36S	15	10	16	A	4	+	✓	-	-	+	-	-	-	-
36D	20	15	20	A	4	+	✓	-	-	+	-	-	-	-
37S	13	9	15	A	4	+	✓	-	-	+	-	-	-	-
38S	15	9	15	A	4	Low flow	✓	✓	-	✓	-	-	-	-
T4B	42	31.5	41.5	B1	4	Low flow	✓	✓	-	✓	-	-	-	-
T5B	45	34.5	44.5	B1	4	Low flow	✓	✓	-	✓	-	-	-	-
T7B	41	34	41	B1	4	Low flow	✓	✓	-	✓	-	-	-	-
T8B	36	24	36	B1	4	Low flow	✓	✓	✓	✓	✓	✓	✓	✓
T10B	32	23	32	B1	2	Low flow	✓	✓	✓	✓	✓	✓	✓	✓
T17B	35	25	35	B1	1	Low flow	✓	✓	-	✓	-	-	-	-
T18B	46	41	46	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T19B	39	29	39	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T20B	27	22	27	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T21B	27	22	27	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T22B	25	24	25	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T23B	30	27	30	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T24B	36	33	36	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T25BS	27	25	27	B1	2	Low flow	✓	✓	✓	✓	✓	✓	✓	✓
T25BD	36	33	36	B1	2	Low flow	✓	✓	-	✓	-	-	-	-
T10C	60	49	59	B2	4	Low flow	✓	✓	-	✓	-	-	-	-
T11C	56	46	56	B2	4	Low flow	✓	✓	-	✓	-	-	-	-
T12C	56	45.5	55.5	B2	2	Low flow	✓	✓	-	✓	-	-	-	-
36DD	55	51.5	61.5	B2	4	+	✓	-	-	+	-	-	-	-
T9C	65	55	65	B3	4	Low flow	✓	✓	-	✓	-	-	-	-
T8D	102	90	102	B4	4	-	-	-	-	-	-	-	-	-
TOTAL							41	31	3	31	3	3	3	3

Notes:

GMW	= Groundwater Monitoring	DO	= Dissolved Oxygen
MNA	= Monitoring Natural Attenuation	ORP	= Oxidation Reduction Potential
ft bgs	= feet below ground surface	Cond.	= Specific Conductivity
µg/L	= Micrograms per liter	Temp.	= Temperature
mL	= Milliliters	Turb.	= Turbidity
USEPA	= United States Environmental Protection Agency	-	= Not Applicable/Sampled
HCL	= Hydrochloric acid		
+	= Well Sampled by AMD		



Table 2
Water-Level Elevation Measurements - October 2021
 Former TRW Microwave Facility - 825 Stewart Drive, Sunnyvale, California

Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet, BTOC)	(feet, MSL)	(feet, MSL)
T-1A	A	Per RWQCB approval, well was destroyed.			
T-2A	A	Per USEPA approval, well was destroyed.			
T-3A	A	Per USEPA approval, well was destroyed.			
T-6A	A	Per RWQCB approval, well was removed from monitoring program.			
T-7A	A	10/11/2021	7.42	41.84	34.42
T-8A	A	10/11/2021	6.62	40.48	33.85
T-9A	A	10/11/2021	6.82	39.30	32.47
T-13A	A	10/11/2021	7.10	40.99	33.89
T-14A	A	10/11/2021	6.79	40.81	34.02
T-15A	A	10/11/2021	6.79	40.22	33.43
T-16A	A	10/11/2021	6.83	40.12	33.29
T-17A	A	10/11/2021	6.63	40.88	34.25
T-18A	A	10/11/2021	7.27	41.20	33.93
T-19A	A	10/11/2021	7.10	41.00	33.90
T-20A	A	10/11/2021	6.90	40.86	33.96
T-21A	A	10/11/2021	7.19	41.20	34.01
T-22A	A	10/11/2021	7.18	NS	NA
T-23A	A	10/11/2021	7.00	41.44	34.44
T-24A	A	10/11/2021	7.27	41.29	34.02
T-25A	A	10/11/2021	6.35	40.26	33.91
36-S	A	10/11/2021	6.32	41.44	35.12
36-D	A	10/11/2021	6.78	41.20	34.42
37-S	A	10/11/2021	7.02	42.01	34.99
38-S	A	10/11/2021	7.96	41.13	33.17
Eductor	A	Per USEPA approval, Eductor was destroyed.			
T-1B	B1	Per RWQCB approval, well was destroyed.			
T-2B	B1	Per USEPA approval, well was destroyed.			
T-4B	B1	10/11/2021	8.69	40.98	32.29
T-5B	B1	10/11/2021	9.40	41.95	32.55
T-7B	B1	10/11/2021	6.97	41.75	34.78
T-8B	B1	10/11/2021	6.58	40.43	33.85
T-9B	B1	Per USEPA approval, well was destroyed.			
T-10B	B1	10/11/2021	6.76	40.13	33.37
T-17B	B1	10/11/2021	6.72	40.72	34.00
T-18B	B1	10/11/2021	5.43	41.41	35.98
T-19B	B1	10/11/2021	5.38	41.38	36.00
T-20B	B1	10/11/2021	5.12	40.65	35.53
T-21B	B1	10/11/2021	7.10	41.53	34.43
T-22B	B1	10/11/2021	6.48	39.13	32.65
T-23B	B1	10/11/2021	6.70	39.28	32.58
T-24B	B1	10/11/2021	7.81	39.19	31.38
T-25Bd	B1	10/11/2021	7.41	38.79	31.38
T-25Bs	B1	10/11/2021	6.64	39.12	32.48
T-2C	B2	Per USEPA approval, well was destroyed.			
T-10C	B2	10/11/2021	8.51	39.46	30.95
T-11C	B2	10/11/2021	8.13	38.77	30.64
T-12C	B2	10/11/2021	6.34	40.84	34.50
36-DD	B2	10/11/2021	5.41	41.52	36.11
T-9C	B3	10/11/2021	7.32	38.82	31.50
T-8D	B4	10/11/2021	2.63	40.46	37.83

Notes:

Elevations in NAVD88.

BTOC Below Top of Casing

MSL Mean Sea Level

NA Not Applicable

NS Not Surveyed

RWQCB California Regional Water Quality Control Board - San Francisco Region

USEPA United States Environmental Protection Agency



Table 3
2021 Groundwater Volatile Organic Compound Results Summary
 Former TRW Microwave Site - 825 Steward Drive, Sunnyvale, California

Well/Sample Number	Zones	Sample Dates	Contaminants of Concern ^(a)														
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN
			(µg/L) ^(b)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Drinking Water Standard ^(c)			5	5	6	10	0.5	200	6	5	100	150	NE ^(d)	1200	100	600	70
T-1A	B1	NA ^(e)	Per RWQCB ^(f) approval, the well was abandoned in February 2004.														
T-2A	B1	NA	Per USEPA approval, the well was abandoned in November 2014.														
T-3A	B1	NA	Per USEPA approval, the well was abandoned in November 2014.														
T-6A	B1	NA	Per RWQCB approval, the well was removed from monitoring program in 2009.														
T-7A	A	10/12/21	1.0	95	39	1.1	ND<1.0 ^(g)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	1.2	ND<2.0	ND<1.0	ND<1.0
T-7A (Dup ⁽ⁱ⁾)	A	10/12/21	1.0	94	38	1.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	1.2	ND<2.0	ND<1.0	ND<1.0
T-8A	A	10/12/21	0.98	78	21	1.6	0.39 J ^(h)	ND<0.50	0.27 J	0.24 J	ND<0.50	ND<1.0	ND<1.0	0.81	ND<1.0	0.30 J	ND<0.50
T-9A	A	10/11/21	1.1	48	110	2.6	ND<0.50	ND<0.50	0.59	0.40 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	3.3	0.28 J
T-13A	A	10/11/21	0.67 J	61	29	1.6	2.4	ND<1.0	ND<1.0	0.24 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	0.21 J	ND<1.0
T-14A	A	10/11/21	0.65	29	49	1.9	27	ND<0.50	0.31 J	0.42 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	2.2	0.11 J
T-15A	A	10/12/21	1.6	78	61	2.3	ND<1.0	ND<1.0	0.47 J	0.28 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	1.1	ND<1.0
T-16A	A	10/12/21	1.1	54	61	1.8	0.51 J	ND<1.0	0.31 J	0.28 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	1.4	ND<1.0
T-17A	A	10/12/21	0.81	40	8.2	1.6	6.2	ND<0.50	ND<0.50	0.18 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50
T-19A	A	10/11/21	ND<0.50	0.20 J	6.8	0.92	17	ND<0.50	ND<0.50	0.43 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	1.2	0.37 J
T-23A	A	10/11/21	0.69	53	16	1.1	6.8	ND<0.50	ND<0.50	0.19 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	0.13 J	ND<0.50
T-25A	A	10/11/21	1.6	71	60	1.9	4.7	ND<0.50	0.48 J	0.40 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	2.0	ND<0.50
36S ^(j)	A	10/15/21	1.7	56	12	0.54	0.58	ND<0.50	ND<0.50	ND<0.50	NA	NA	NA	ND<0.50	NA	ND<0.50	NA
36D ^(j)	A	10/15/21	ND<0.50	5.4	58	3.5	0.78	ND<0.50	ND<0.50	0.60	NA	NA	NA	ND<0.50	NA	ND<0.50	NA
37S ^(j)	A	10/15/21	0.54	40	11	ND<0.50	0.76	ND<0.50	ND<0.50	ND<0.50	NA	NA	NA	0.62	NA	ND<0.50	NA
38-S	A	10/12/21	0.78 J	58	88	0.70 J	1.3	ND<1.0	0.28 J	ND<1.0	ND<1.0	ND<2.0	ND<2.0	1.0	ND<2.0	ND<1.0	ND<1.0
S005A ^(j)	A	11/5/21	2.3	170	78	0.89 J	ND<0.72	ND<0.40	ND<0.52	ND<0.40	ND<0.64	ND<0.52	ND<1.3	NA	ND<0.76	ND<0.39	ND<0.28
S074A ^(j)	A	NS ^(k)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
S079A ^(j)	A	11/3/21	0.21 J	36	7.5	0.12 J	ND<0.18	ND<0.10	ND<0.13	0.12 J	ND<0.16	ND<0.13	ND<0.32	NA	ND<0.19	ND<0.097	ND<0.070
Eductor	A	NA	Per USEPA approval, the Eductor was abandoned in November 2014.														
T-1B	B1	NA	Per RWQCB approval, the well was abandoned in February 2004.														
T-2B	B1	NA	Per USEPA approval, the well was abandoned in November 2014.														
T-4B	B1	10/12/21	ND<2.0	3.6	140	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0
T-5B	B1	10/13/21	6.5 J	1,400	95	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<20	200	ND<20	ND<10	ND<10
T-5B (Dup)	B1	10/13/21	2.7 J	870	45	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<20	93	ND<20	ND<10	ND<10
T-7B	B1	10/12/21	ND<2.0	130	7.0	1.2 J	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	2.7	ND<4.0	1.3 J	ND<2.0
T-7B (Dup)	B1	10/12/21	0.46 J	130	7.1	1.3 J	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	2.9	ND<4.0	1.2 J	ND<2.0
T-8B	B1	10/12/21	ND<0.50	18	410	5.6	11	ND<0.50	1.8	0.72	ND<0.50	ND<1.0	ND<1.0	1.0	ND<1.0	5.2	ND<0.50
T-9B	B1	NA	Per USEPA approval, the well was abandoned in November 2019.														
T-10B	B1	10/12/21	0.31 J	22	93	2.3	51	ND<1.0	0.38 J	0.46 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	2.9	ND<1.0
T-17B	B1	10/12/21	0.71 J	160	240	1.4 J	ND<2.0	ND<2.0	0.97 J	ND<2.0	ND<2.0	ND<4.0	ND<4.0	6.3	ND<4.0	ND<2.0	ND<2.0
T-18B	B1	10/13/21	ND<0.50	16	1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	0.87	ND<1.0	ND<0.50	ND<0.50
T-19B	B1	10/13/21	ND<0.50	50	1.3	ND<0.50	ND<0.50	0.17 J	ND<0.50	0.23 J	ND<0.50	ND<1.0	ND<1.0	0.98	ND<1.0	ND<0.50	ND<0.50
T-20B	B1	10/13/21	ND<5.0	170	370	2.9 J	6.3	ND<5.0	1.7 J	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<10	ND<5.0	ND<5.0
T-21B	B1	10/13/21	ND<5.0	410	260	1.7 J	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	14	ND<10	ND<5.0	ND<5.0
T-22B	B1	10/12/21	1.5	78	140	3.2	0.52	ND<0.50	0.91	0.36 J	ND<0.50	ND<1.0	ND<1.0	0.17 J	ND<1.0	2.2	ND<0.50
T-23B	B1	10/12/21	1.2 J	70	120	2.7	ND<2.0	ND<2.0	0.75 J	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	2.6	ND<2.0

Table 3
2021 Groundwater Volatile Organic Compound Results Summary
 Former TRW Microwave Site - 825 Steward Drive, Sunnyvale, California

Well/Sample Number	Zones	Sample Dates	Contaminants of Concern ^(a)														
			PCE (µg/L) ^(b)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	VC (µg/L)	1,1,1-TCA (µg/L)	1,1-DCE (µg/L)	1,1-DCA (µg/L)	CDM (µg/L)	Freon 11 (µg/L)	Freon 12 (µg/L)	Freon 113 (µg/L)	BFM (µg/L)	1,2-DCB (µg/L)	CBN (µg/L)
Drinking Water Standard ^(c)			5	5	6	10	0.5	200	6	5	100	150	NE ^(d)	1200	100	600	70
T-24B	B1	10/12/21	ND<0.50	7.8	49	0.63	ND<0.50	ND<0.50	0.36 J	0.24 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	0.14 J	ND<0.50
T-25Bd	B1	10/12/21	3.4	170	9.9	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0
T-25Bs	B1	10/12/21	ND<5.0	11	400	5.2	42	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<10	ND<5.0	ND<5.0
S005B1 ⁽ⁱ⁾	B2	11/5/21	1.9 J	320	200	ND<1.1	ND<1.8	ND<1.0	ND<1.3	ND<1.0	ND<1.6	ND<1.3	ND<3.2	NA	ND<1.9	ND<0.97	ND<0.70
S073B1 ⁽ⁱ⁾	B2	11/12/21	ND<0.50	1.3	55	1.2	65	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	NA	ND<0.50	ND<1.0	ND<0.50	ND<0.50
S074B1 ⁽ⁱ⁾	B2	11/15/21	ND<2.5	260	80	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	NA	6.3	ND<5.0	ND<2.5	ND<2.5
S111B1 ⁽ⁱ⁾	B2	11/2/21	ND<0.50	300	230	2.2 J	ND<0.90	ND<0.50	ND<0.65	ND<0.50	ND<0.80	ND<0.65	ND<1.6	NA	ND<0.95	ND<0.49	ND<0.35
T-2C	B2	NA	Per USEPA approval, the well was abandoned in November 2014.														
T-10C	B2	10/12/21	ND<5.0	240	290	3.1 J	ND<5.0	ND<5.0	2.1 J	ND<5.0	ND<5.0	ND<10	4.3 J	55	ND<10	ND<5.0	ND<5.0
T-11C	B2	10/12/21	ND<2.0	200	17	0.57 J	ND<2.0	ND<2.0	1.4 J	ND<2.0	ND<2.0	ND<4.0	ND<4.0	5.0	ND<4.0	ND<2.0	ND<2.0
T-11C (Dup)	B2	10/12/21	ND<2.0	200	18	0.55 J	0.72 J	ND<2.0	1.6 J	ND<2.0	ND<2.0	ND<4.0	1.3 J	5.6	ND<4.0	ND<2.0	ND<2.0
T-12C	B2	10/13/21	ND<0.50	1.9	0.54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50
36DD ⁽ⁱ⁾	B2	10/15/21	ND<0.50	2.0	16	2.9	1.6	ND<0.50	ND<0.50	ND<0.50	NA	NA	NA	ND<0.50	NA	ND<0.50	NA
T-9C	B3	10/13/21	ND<0.50	0.31 J	0.31 J	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50
T-8D	B4	NA	Per RWQCB approval, groundwater sampling of well was suspended in 2002.														

Notes:

- (a) 1,1,1-TCA = 1,1,1-trichloroethane cis-1,2-DCE = cis-1,2-dichloroethene CDM = Chlorodibromomethane/Dibromochloromethane PCE = Tetrachloroethene
 1,1-DCA = 1,1-dichloroethane trans-1,2-DCE = trans-1,2-dichloroethene Freon 11 = Trichlorofluoromethane TCE = Trichloroethene
 1,1-DCE = 1,1-dichloroethene BFM = Bromoform Freon 12 = Dichlorodifluoromethane VC = Vinyl Chloride
 1,2-DCB = 1,2-dichlorobenzene CBN = Chlorobenzene Freon 113 = 1,1,2-trichloro-1,2,2-trifluoroethane
- (b) µg/L = microgram per liter
- (c) Drinking water standards are Maximum Contaminant Levels (MCLs) as established by the California Department of Health Services, or if no California MCLs have been established, then United States Environmental Protection Agency (USEPA) MCLs were used.
 Concentrations reported above MCLs are shown in **bold**.
- (d) NE = Not Established
- (e) NA = Not Analyzed
- (f) RWQCB = California Regional Water Quality Control Board - San Francisco Bay Region
- (g) ND< = Not Detected at the indicated laboratory reporting limit shown.
- (h) J = Result is less than the RL but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.
- (i) Dup = Field Duplicate Sample
- (j) Data provided by Advanced Micro Devices, Inc. (AMD) or Philips Electronics (Philips)/The Companies Offsite Operable Unit (OOU).
- (k) NS = Not sampled

Table 4
2021 Groundwater Water Quality Parameters Results
 Former TRW Microwave Site - 825 Stewart Drive, Sunnyvale, California

Well	Date	Temperature	pH	Conductivity	Turbidity	Oxidation-Reduction Potential	Nitrate	Sulfate	Methane	Ethane	Ethylene	Total Alkalinity	Total Organic Carbon
		(°C)	(SU)	(mS/cm)	(NTU)	(mV)	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L as CaCO3)	(mg/L)
Zone A Aquifer Wells													
38-S	10/12/21	22.1	7.02	1.318	1	-38.9	--	--	--	--	--	--	--
T-7A	10/12/21	23.1	6.89	1.427	10	98.0	--	--	--	--	--	--	--
T-8A	10/12/21	21.8	6.95	1.398	16	50.6	--	--	--	--	--	--	--
T-9A	10/11/21	23.6	6.70	1.366	2	154.9	--	--	--	--	--	--	--
T-13A	10/11/21	20.2	6.90	1.416	9	-72.1	--	--	--	--	--	--	--
T-14A	10/11/21	20.2	6.60	1.318	1	-130.9	--	--	--	--	--	--	--
T-15A	10/12/21	21.0	6.91	1.285	1	59.1	--	--	--	--	--	--	--
T-16A	10/12/21	21.7	6.85	1.336	11	163.5	--	--	--	--	--	--	--
T-17A	10/12/21	20.7	6.99	1.320	3	39.5	--	--	--	--	--	--	--
T-19A	10/11/21	22.0	6.90	1.369	1	-89.6	--	--	--	--	--	--	--
T-23A	10/11/21	20.4	6.83	1.484	12	-50.3	--	--	--	--	--	--	--
T-25A	10/11/21	20.8	6.82	1.290	36	-20.6	--	--	--	--	--	--	--
Zone B1 Aquifer Wells													
T-4B	10/12/21	22.4	7.67	0.984	1	-48.0	--	--	--	--	--	--	--
T-5B	10/13/21	19.8	7.25	1.070	1	183.6	--	--	--	--	--	--	--
T-7B	10/12/21	21.4	7.11	1.000	1	129.5	--	--	--	--	--	--	--
T-8B	10/12/21	21.9	7.07	1.297	9	-50.6	ND<1.3	200	270	1.8	0.28 J	390	0.74 J
T-10B	10/12/21	21.7	6.90	0.673	5	148.3	ND<1.3	160	860	8.2	3.5	420	1.9
T-17B	10/12/21	20.6	7.18	1.181	2	-6.6	--	--	--	--	--	--	--
T-18B	10/13/21	20.5	7.94	0.663	0	131.1	--	--	--	--	--	--	--
T-19B	10/13/21	20.9	7.27	1.006	11	-131.5	--	--	--	--	--	--	--
T-20B	10/13/21	20.0	7.26	1.370	2	-38.2	--	--	--	--	--	--	--
T-21B	10/13/21	20.5	7.22	1.239	1	163.3	--	--	--	--	--	--	--
T-22B	10/12/21	22.0	6.20	1.352	1	200.3	--	--	--	--	--	--	--
T-23B	10/12/21	21.6	6.89	1.348	3	88.7	--	--	--	--	--	--	--
T-24B	10/12/21	21.7	7.42	1.239	1	1.79	--	--	--	--	--	--	--
T-25Bd	10/12/21	23.9	7.27	1.035	1	81.3	--	--	--	--	--	--	--
T-25Bs	10/12/21	23.8	7.09	1.413	2	-53.0	ND<1.3	170	120	1.4	2.9	490	0.95 J

Table 4
2021 Groundwater Water Quality Parameters Results
 Former TRW Microwave Site - 825 Stewart Drive, Sunnyvale, California

Well	Date	Temperature	pH	Conductivity	Turbidity	Oxidation-Reduction Potential	Nitrate	Sulfate	Methane	Ethane	Ethylene	Total Alkalinity	Total Organic Carbon
		(°C)	(SU)	(mS/cm)	(NTU)	(mV)	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L as CaCO ₃)	(mg/L)
Zone B2 Aquifer Wells													
T-10C	10/12/21	21.9	7.72	0.772	5	64.3	--	--	--	--	--	--	--
T-11C	10/12/21	24.7	7.31	0.939	1	159.7	--	--	--	--	--	--	--
T-12C	10/13/21	21.0	9.18	0.255	0	49.1	--	--	--	--	--	--	--
Zone B3 Aquifer Wells													
T-9C	10/13/21	21.9	7.83	0.726	4	-61.1	--	--	--	--	--	--	--

Notes:

°C = degree Celsius

SU = standard units

mS/cm = milliSiemens per centimeter

NTU = Nephelometric Turbidity Unit

mV = millivolts

nM = nanomolar

mg/L = milligrams per liter

CaCO₃ = calcium carbonate

-- = not analyzed/measured

µg/L = micrograms per liter

ND<#.# = Not detected at or above indicated laboratory reporting limit

Appendix A – Groundwater Sampling Procedures and Low Flow Sampling Logs

Blaine Tech Services, Inc.
Standard Operating Procedure

LOW-FLOW SAMPLING

SAMPLE-PRO BLADDER PUMP

1. Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:
 - A. pH (use 3-point calibration of 7, 4, 10)
 - B. Oxygen Reduction Potential (ORP)
 - C. Specific Conductance
 - D. Dissolved Oxygen (DO) (calibrate simulating 100% oxygen saturation)
2. Insert new bladder into Sample-Pro pump housing.
3. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
4. Attach the PE tubing to the Sample-Pro Bladder Pump.
5. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the center of the screened interval. Take care to minimize disturbance to the water column.
6. Direct effluent line into YSI 556 Flow Cell.
7. Set Sample-Pro Bladder Pump speed at 100 - 500 ml/min.
8. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
9. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. **MAXIMUM DRAWDOWN IS 0.33 FEET.**
10. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp	± 1° Celsius
pH	± 0.1
Conductivity	± 3%
Turbidity	± 10% NTU
DO	± 0.3 mg/l
ORP	± 10 Mv

11. Ensure at least one System Volume is removed from the well before sampling. A System Volume is equal to the volume of the bladder plus the volume of the water line.
12. Disconnect effluent line from YSI 556 Flow Cell.

13. Sample through effluent line while maintaining constant flow rate of 100mL/min.
14. Remove Sample-Pro Bladder Pump, and PE tubing from well.
15. Detach and reinstall dedicated PE tubing in well.

WELL GAUGING SHEET

Client: GES

Date: 10/11/2021

Project Name/Site Address: TRW Microwave @ 825 Stewart Dr., Sunnyvale, CA

Job #: 211011SC-1

Technician(s): SC

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
36D	1000	4	—	—	—	—	6.78	20.10	TOC	
36DD	1003	4	—	—	—	—	5.41	55.07	TOC	
36S	1005	4	—	—	—	—	6.32	15.00	TOC	
37S	0955	4	—	—	—	—	7.02	13.00	TOC	
38S	0854	4	—	—	—	—	7.96	14.51	TOC	
T-4B	0850	4	—	—	—	—	8.69	39.27	TOC	
T-5B	0950	4	—	—	—	—	9.40	42.98	TOC	
T-7A	0945	4	—	—	—	—	7.42	18.71	TOC	
T-7B	0940	4	—	—	—	—	6.97	41.60	TOC	
T-8A	0825	4	—	—	—	—	6.62	15.32	TOC	
T-8B	0827	4	—	—	—	—	6.58	35.01	TOC	
T-8D	0835	4	—	—	—	—	2.63	100.27	TOC	
T-9A	1110	4	—	—	—	—	6.82	18.39	TOC	
T-9C	0859	4	—	—	—	—	7.32	63.52	TOC	
T-10B	0840	2	—	—	—	—	6.76	24.46	TOC	
T-10C	0905	4	—	—	—	—	8.51	57.30	TOC	
T-11C	0920	4	—	—	—	—	8.13	55.49	TOC	
T-12C	0935	2	—	—	—	—	6.34	54.83	TOC	
T-13A	0900	1	—	—	—	—	7.10	18.79	TOC	
T-14A	0750	1	—	—	—	—	6.79	17.86	TOC	

WELL GAUGING SHEET

Page: 2 of 2

Client: GESDate: 10/11/2021Project Name/Site Address: TRW Microwave @ 825 Stewart Dr., Sunnyvale, CAJob #: 211011SC-1Technician(s): SC

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
T-15A	0843	1	—	—	—	—	6.79	18.90	TOC	
T-16A	0845	1	—	—	—	—	6.83	18.72	TOC	
T-17A	0935	2	—	—	—	—	6.63	20.13	TOC	
T-17B	0940	1	—	—	—	—	6.72	34.39	TOC	
T-18A	0800	1	—	—	—	—	7.27	19.73	TOC	
T-18B	1025	2	—	—	—	—	5.43	47.28	TOC	
T-19A	0805	1	—	—	—	—	7.10	20.73	TOC	
T-19B	1027	2	—	—	—	—	5.38	39.21	TOC	
T-20A	0807	1	—	—	—	—	6.90	15.84	TOC	
T-20B	1030	2	—	—	—	—	5.12	26.91	TOC	
T-21A	0755	1	—	—	—	—	7.19	17.78	TOC	
T-21B	1020	2	—	—	—	—	7.10	27.26	TOC	
T-22A	0810	1	—	—	—	—	7.18	18.08	TOC	
T-22B	1015	2	—	—	—	—	6.48	24.42	TOC	
T-23A	0815	1	—	—	—	—	7.00	18.00	TOC	
T-23B	0917	2	—	—	—	—	6.70	29.10	TOC	
T-24A	1010	1	—	—	—	—	7.27	18.90	TOC	
T-24B	0915	2	—	—	—	—	7.81	35.38	TOC	
T-25A	0830	1	—	—	—	—	6.35	18.90	TOC	
T-25BS	0930	2	—	—	—	—	6.64	26.45	TOC	
T-25BD	0927	2	—	—	—	—	7.41	36.00	TOC	

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/12/2021</u>
Well I.D.: <u>38S</u>	Well Diameter (inch): <u>4</u>
Total Well Depth: <u>14.51</u>	Depth to Water: Pre: <u>7.96</u> Post: <u>8.02</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 9.0-15.0

Start Purge: 1030 Flow Rate: 200 ml/min Pump Depth: 14

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1033	22.0	7.03	1318	2	0.68	-52.6	600	8.00	clear
1036	22.0	7.03	1318	2	0.64	-45.9	1200	8.00	
1039	22.1	7.05	1318	1	0.61	-42.1	1800	8.00	
1042	22.1	7.02	1318	1	0.59	-39.2	2400	8.02	
1045	22.1	7.02	1318	1	0.58	-38.9	3000	8.02	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: <u>3000</u> ml
--	---

Sampling Time: <u>1050</u>	Sampling Date: <u>10/12/2021</u>
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Sample I.D.: <u>J6038-38S-101221</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: <u>SEE COC</u>

Blank I.D.: _____ @ Time	Duplicate I.D.: _____ @ Time
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Analyzed for: <u>SEE COC</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/13/2021</u>
Well I.D.: <u>T-5B</u>	Well Diameter (inch): <u>4</u>
Total Well Depth: <u>4298</u>	Depth to Water: Pre: <u>9.40</u> Post: <u>9.47</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 34.5-44.5

Start Purge: 0741 Flow Rate: 200 ml/min Pump Depth: 39.5

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0744	19.5	7.26	1071	2	0.02	181.7	600	9.40	clear
0747	19.5	7.26	1070	2	0.01	180.6	1200	9.45	
0750	19.7	7.25	1068	1	0.02	182.2	1800	9.47	
0753	19.8	7.25	1068	1	0.02	185.1	2400	9.47	
0756	19.8	7.25	1070	1	0.02	183.6	3000	9.47	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: <u>3000</u> ml
Sampling Time: <u>0801</u>	Sampling Date: <u>10/13/2021</u>
Sample I.D.: <u>J6038-T5B-101321-1</u>	Laboratory: <u>EUROFINS - TA</u>
Analyzed for: <u>SEE COC</u>	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
<u>TRIPBLANK - J6038-101321</u> <u>0730</u>	<u>J6038-T5B-101321-2</u> <u>0806</u>
Analyzed for: <u>SEE COC</u>	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 2110115C-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/12/2021
Well I.D.: T-7A	Well Diameter (inch): 4
Total Well Depth: 18.71	Depth to Water: Pre: 7.42 Post: 7.48
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 8-20

Start Purge: 1430 Flow Rate: 200 ml/min Pump Depth: 14

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1433	23.4	6.91	1430	12	0.45	53.4	600	7.45	clear
1436	23.2	6.90	1429	10	0.02	82.6	1200	7.48	
1439	23.1	6.89	1428	10	0.01	94.4	1800	7.48	
1442	23.1	6.89	1426	10	0.01	97.8	2400	7.48	
1445	23.1	6.89	1427	10	0.01	98.0	3000	7.48	

HACH Field Test:	Ferrous Iron: \emptyset NA mg/L	
	Manganese: NA mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 1450 Sampling Date: 10/12/2021

Sample I.D.: J6038-T7A-101221-1 Laboratory: EUROFINs - TA

Analyzed for: SEE COC

Blank I.D.: @ Time	Duplicate I.D.: @ Time 1455 J6038-T7A-101221-2
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/12/2021</u>
Well I.D.: <u>T-8A</u>	Well Diameter (inch): <u>4</u>
Total Well Depth: <u>15.32</u>	Depth to Water: Pre: <u>6.62</u> Post: <u>6.64</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 8.0-19.0

Start Purge: 1350 Flow Rate: 200 ml/min Pump Depth: 12.0

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
<u>1353</u>	<u>22.0</u>	<u>6.96</u>	<u>1400</u>	<u>22</u>	<u>0.47</u>	<u>51.2</u>	<u>600</u>	<u>6.62</u>	<u>Clear</u>
<u>1356</u>	<u>21.9</u>	<u>6.96</u>	<u>1399</u>	<u>20</u>	<u>0.42</u>	<u>48.7</u>	<u>1200</u>	<u>6.64</u>	
<u>1359</u>	<u>21.8</u>	<u>6.95</u>	<u>1398</u>	<u>16</u>	<u>0.36</u>	<u>50.0</u>	<u>1800</u>	<u>6.64</u>	
<u>1402</u>	<u>21.8</u>	<u>6.95</u>	<u>1398</u>	<u>16</u>	<u>0.35</u>	<u>50.4</u>	<u>2400</u>	<u>6.64</u>	
<u>1405</u>	<u>21.8</u>	<u>6.95</u>	<u>1398</u>	<u>16</u>	<u>0.37</u>	<u>50.6</u>	<u>3000</u>	<u>6.64</u>	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 1410 Sampling Date: 10/12/2021

Sample I.D.: J6038-T8A-101221 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: <u>—</u> @ Time	Duplicate I.D.: <u>—</u> @ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/12/2021
Well I.D.: T-8B	Well Diameter (inch): 4
Total Well Depth: 35.01	Depth to Water: Pre: 6.58 Post: 6.62
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 24-36

Start Purge: 1315 Flow Rate: 200 ml/min Pump Depth: 30

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1318	22.0	7.05	1283	12	0.48	-45.2	600	6.58	Clear
1321	22.0	7.05	1300	10	0.35	-46.6	1200	6.61	
1324	21.9	7.07	1299	9	0.26	-51.6	1800	6.62	
1327	21.9	7.07	1297	9	0.25	-51.0	2400	6.62	
1330	21.9	7.07	1297	9	0.26	-50.6	3000	6.62	

HACH Field Test:	Ferrous Iron: <u>∅</u> mg/L	
	Manganese: <u>∅</u> mg/L	

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000</u> ml
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Sampling Time: <u>1335</u>	Sampling Date: <u>10/12/2021</u>
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Sample I.D.: <u>J6038-T8B-101221</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: <u>SEE COC</u>	
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Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: <u>SEE COC</u>	
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LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/11/2021
Well I.D.: T-9A	Well Diameter (inch): 4
Total Well Depth: 18.39	Depth to Water: Pre: 6.82 Post: 6.90
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 7.0-19.0

Start Purge: 1123 Flow Rate: 200 ml/min Pump Depth: 13

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1126	23.6	6.83	1375	6	0.36	169.3	600	6.84	Clear
1129	23.6	6.84	1374	5	0.23	160.1	1200	6.90	
1132	23.6	6.80	1372	4	0.19	166.9	1800	6.90	
1135	23.6	6.68	1368	2	0.16	153.2	2400	6.90	
1138	23.6	6.70	1367	2	0.15	155.6	3000	6.90	
1141	23.6	6.70	1366	2	0.15	154.9	3600	6.90	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes No Amount actually evacuated: 3600 ml

Sampling Time: 1146 Sampling Date: 10/11/2021

Sample I.D.: J6038-T9A-101121 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: TRIPBLANK-J6038-101121 @ Time 0800	Duplicate I.D.: @ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/13/2021
Well I.D.: T-9C	Well Diameter (inch): 4
Total Well Depth: 63.52	Depth to Water: Pre: 7.32 Post: 7.37
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 55-65

Start Purge: 1115 Flow Rate: 200 ml/min Pump Depth: 60

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1118	22.0	7.82	726	2	0.02	-55.9	600	7.32	red specks
1121	21.9	7.82	726	4	0.01	-57.2	1200	7.37	
1124	21.9	7.83	726	4	0.01	-60.2	1800	7.37	
1127	21.9	7.83	726	4	0.01	-61.0	2400	7.37	
1130	21.9	7.83	726	4	0.01	-61.1	3000	7.37	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: <u>3000</u> ml
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Sampling Time: <u>1135</u>	Sampling Date: <u>10/13/2021</u>
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Sample I.D.: <u>J6038- T9C-101321</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: <u>SEE COC</u>

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: <u>SEE COC</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z110115C-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>CE</u>	Start Date: <u>10/12/21</u>
Well I.D.: <u>T-10B</u>	Well Diameter (inch): <u>2</u>
Total Well Depth: <u>24.46</u>	Depth to Water: Pre: <u>6.76</u> Post: <u>6.81</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 23-32

Start Purge: 0910 Flow Rate: 200 ml/min Pump Depth: 23

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0913	21.7	6.90	691	8	1.24	99.2	600	6.78	clear
0916	21.8	6.91	678	9	1.14	118.5	1200	6.79	"
0919	21.4	6.90	674	8	1.07	135.7	1800	6.80	"
0922	21.6	6.90	674	6	1.09	143.8	2400	6.80	"
0925	21.7	6.90	673	4	1.07	146.5	3000	6.81	"
0928	21.7	6.90	673	5	1.05	148.3	3600	6.81	"

HACH Field Test:	Ferrous Iron: <u>0.0</u> mg/L	
	Manganese: <u>0.0</u> mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: <u>3600</u> ml
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Sampling Time: <u>0935</u>	Sampling Date: <u>10/12/21</u>
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Sample I.D.: <u>J6038-T10B-101221</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: <u>SEE COC</u>

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: <u>SEE COC</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/12/2021
Well I.D.: T-10C	Well Diameter (inch): 2 ^{3/4}
Total Well Depth: 57.30	Depth to Water: Pre: 8.51 Post: 8.54
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 49-59

Start Purge: 1235 Flow Rate: 200 ml/min Pump Depth: 54

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1238	21.9	7.81	771	10	0.01	67.8	600	8.51	clear
1241	21.9	7.79	770	6	0.0	65.1	1200	8.53	
1244	21.9	7.73	772	5	0.01	64.2	1800	8.53	
1247	21.9	7.73	771	5	0.01	64.2	2400	8.54	
1250	21.9	7.72	772	5	0.0	64.3	3000	8.54	

HACH Field Test:	Ferrous Iron: \emptyset mg/L	
	Manganese: — mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 1255 Sampling Date: 10/12/2021

Sample I.D.: J6038-T10C-101221 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ Time	Duplicate I.D.: _____ @ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>2110115C-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>CE</u>	Start Date: <u>10/12/21</u>
Well I.D.: <u>T-11C</u>	Well Diameter (inch): <u>4</u>
Total Well Depth: <u>55.49</u>	Depth to Water: Pre: <u>8.13</u> Post: <u>8.13</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro P10S</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 46-56

Start Purge: 1245 Flow Rate: 200 ml/min Pump Depth: 54

Time	Temp. (°C)	pH	Cond. (μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
<u>1248</u>	<u>24.7</u>	<u>7.32</u>	<u>930</u>	<u>1</u>	<u>0.88</u>	<u>159.6</u>	<u>600</u>	<u>8.13</u>	<u>clear</u>
<u>1251</u>	<u>24.5</u>	<u>7.32</u>	<u>939</u>	<u>1</u>	<u>0.69</u>	<u>159.3</u>	<u>1200</u>	<u>8.13</u>	<u>" "</u>
<u>1254</u>	<u>24.6</u>	<u>7.31</u>	<u>940</u>	<u>1</u>	<u>0.53</u>	<u>159.9</u>	<u>1800</u>	<u>8.13</u>	<u>" "</u>
<u>1257</u>	<u>24.7</u>	<u>7.31</u>	<u>939</u>	<u>1</u>	<u>0.50</u>	<u>159.9</u>	<u>2400</u>	<u>8.13</u>	<u>" "</u>
<u>1300</u>	<u>24.7</u>	<u>7.31</u>	<u>939</u>	<u>1</u>	<u>0.49</u>	<u>159.7</u>	<u>3000</u>	<u>8.13</u>	<u>" "</u>

HACH Field Test:	Ferrous Iron: <u> </u> mg/L	
	Manganese: <u> </u> mg/L	

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3000</u> ml
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Sampling Time: <u>1305</u>	Sampling Date: <u>10/12/21</u>
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Sample I.D.: <u>J6038-T11C-101221-1</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: SEE COC

Blank I.D.: @ _____ Time	Duplicate I.D.: @ <u>1310</u> Time <u>J6038-T11C-101221-2</u>
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/13/2021
Well I.D.: T-12C	Well Diameter (inch): 2
Total Well Depth: 54.83	Depth to Water: Pre: 6.34 Post: 6.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump

Sampling Method: New Tubing Other: _____

Screen Interval: 45.5 - 55.5

Start Purge: 1040 Flow Rate: 200 ml/min Pump Depth: 50.5

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1049	21.1	9.06	265	0	3.63	46.7	600	6.34	clear
1052	21.1	9.12	255	0	3.70	47.9	1200	6.39	↓
1055	21.0	9.17	255	0	3.46	47.9	1800	6.39	
1058	21.0	9.18	256	0	3.45	49.3	2400	6.41	
1101	21.0	9.18	255	0	3.44	49.1	3000	6.41	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 1106 Sampling Date: 10/13/2021

Sample I.D.: J6038-T12C Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ Time	Duplicate I.D.: _____ @ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/11/2021
Well I.D.: T-14A	Well Diameter (inch): 1
Total Well Depth: 17.86	Depth to Water: Pre: 6.79 Post: 6.84
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 10.0-20.0

Start Purge: 1316 Flow Rate: 200 ml/min Pump Depth: 15

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1319	20.2	6.36	1316	2	0.23	-128.3	600	6.79	sulfur odor
1322	20.2	6.56	1317	2	0.23	-133.4	1200	6.82	
1325	20.2	6.58	1317	1	0.22	-133.1	1800	6.84	
1328	20.2	6.60	1318	1	0.22	-132.6	2400	6.84	
1331	20.2	6.60	1318	1	0.21	-130.9	3000	6.84	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3000 ml
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Sampling Time: 1336	Sampling Date: 10/11/2021
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Sample I.D.: J6038-T14A-101121	Laboratory: EUROFINs - TA
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Analyzed for: SEE COC

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 21101150-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/12/2021
Well I.D.: T-15A	Well Diameter (inch): 1
Total Well Depth: 18.90	Depth to Water: Pre: 6.79 Post: 6.91
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 10.0-20.0

Start Purge: 0829 Flow Rate: 200 ml/min Pump Depth: 15

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0832	21.2	6.92	1287	2	0.02	59.6	600	6.82	Clear
0835	21.1	6.92	1287	2	0.01	59.8	1200	6.87	
0838	21.2	6.91	1284	2	0.38	56.9	1800	6.87	
0841	21.1	6.91	1286	1	0.36	58.9	2400	6.91	
0844	21.0	6.91	1285	1	0.34	59.1	3000	6.91	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 0849 Sampling Date: 10/12/2021

Sample I.D.: J6038-T15A-101221 Laboratory: EUROFINs - TA

Analyzed for: SEE COC

Blank I.D.: @ Time	Duplicate I.D.: @ Time
TRIPBLANK - J6038-101221 0800	

Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/12/2021
Well I.D.: T-17A	Well Diameter (inch): 2
Total Well Depth: 20.13	Depth to Water: Pre: 6.63 Post: 6.72
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 10-20

Start Purge: 0900 Flow Rate: 200 ml/min Pump Depth: 15

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0903	20.7	7.04	1305	6	0.58	28.3	600	6.68	Clear
0906	20.7	7.00	1318	5	0.44	33.7	1200	6.72	
0909	20.7	7.00	1318	3	0.38	38.1	1800	6.72	
0912	20.7	6.99	1320	3	0.37	39.2	2400	6.72	
0915	20.7	6.99	1320	3	0.38	39.5	3000	6.72	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 0920 Sampling Date: 10/12/2021

Sample I.D.: J6038- T17A-101221 Laboratory: EUROFINs - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ Time	Duplicate I.D.: _____ @ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/12/2021</u>
Well I.D.: <u>T-17B</u>	Well Diameter (inch): <u>1</u>
Total Well Depth: <u>34.39</u>	Depth to Water: Pre: <u>6.72</u> Post: <u>6.76</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 25-35

Start Purge: 0925 Flow Rate: 200 ml/min Pump Depth: 27.5

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0928	20.6	7.16	1196	2	0.01	-6.0	600	6.72	clear
0931	20.6	7.16	1178	2	0.03	-6.2	1200	6.74	
0934	20.6	7.18	1179	2	0.02	-6.5	1800	6.76	
0937	20.6	7.18	1180	2	0.02	-6.3	2400	6.76	
0940	20.6	7.18	1181	2	0.03	-6.6	3000	6.76	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 0945 Sampling Date: 10/12/2021

Sample I.D.: J6038-T17B-101221 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 2110115C-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/13/2021
Well I.D.: T-18B	Well Diameter (inch): 2
Total Well Depth: 47.28	Depth to Water: Pre: 5.43 Post: 5.44
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 41-46

Start Purge: 0905 Flow Rate: 200 ml/min Pump Depth: 43.5

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0908	20.4	7.94	663	2	0.91	134.0	600	5.43	
0911	20.5	7.94	662	2	0.92	134.0	1200	5.43	
0914	20.5	7.94	663	1	0.88	133.8	1800	5.44	
0917	20.5	7.94	663	0	0.87	132.0	2400	5.44	
0920	20.5	7.94	663	0	0.88	131.1	3000	5.44	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes <input checked="" type="radio"/> (No)	Amount actually evacuated: 3000 ml
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Sampling Time: 0925	Sampling Date: 10/13/2021
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Sample I.D.: J6038-T18B-101321	Laboratory: EUROFINS - TA
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Analyzed for: SEE COC

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/11/2021
Well I.D.: T-19A	Well Diameter (inch): 1
Total Well Depth: 20.73	Depth to Water: Pre: 7.10 Post: 7.15
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____
 Sampling Method: New Tubing Other: _____

Screen Interval: 10.0-20.0

Start Purge: 1248 Flow Rate: 200 ml/min Pump Depth: 15

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1251	21.7	6.99	1369	3	0.67	-45.9	600	7.10	clear
1254	22.1	6.93	1369	2	0.29	-92.5	1200	7.13	
1257	22.0	6.90	1369	2	0.29	-92.2	1800	7.15	
1300	22.1	6.91	1369	1	0.27	-90.9	2400	7.15	
1303	22.0	6.90	1369	1	0.28	-89.6	3000	7.15	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3000 ml
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Sampling Time: 1308	Sampling Date: 10/11/2021
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Sample I.D.: J6038-T19A-101121	Laboratory: EUROFINS - TA
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Analyzed for: SEE COC	
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Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC	
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LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/13/2021
Well I.D.: T-19B	Well Diameter (inch): 2
Total Well Depth: 39.21	Depth to Water: Pre: 5.38 Post: 5.47
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 29-39

Start Purge: 1213 Flow Rate: 300 ml/min Pump Depth: 34

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1216	20.9	7.31	999	12	0.12	-130.8	900	5.42	clear
1219	20.9	7.27	1006	12	0.12	-131.6	1800	5.47	↓
1222	20.9	7.27	1007	11	0.11	-131.4	2700	5.47	
1225	20.9	7.27	1006	11	0.11	-131.5	3600	5.47	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes No Amount actually evacuated: 3600 ml

Sampling Time: 1230 Sampling Date: 10/13/2021

Sample I.D.: J6038-T19B-101321 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211011SC-1	Client: GES @ TRW Microwave - Sunnyvale, CA
Sampler: SC	Start Date: 10/13/2021
Well I.D.: T-21B	Well Diameter (inch): 2
Total Well Depth: 27.26	Depth to Water: Pre: 7.10 Post: 7.13
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: TOC	Flow Cell Type: YSI Pro Plus

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____
 Sampling Method: New Tubing Other: _____

Screen Interval: 22-27

Start Purge: 0821 Flow Rate: 200 ml/min Pump Depth: 24.5

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
0824	20.5	7.22	1233	3	0.28	163.4	600	7.10	Clear
0827	20.6	7.23	1237	3	0.26	163.5	1200	7.13	
0830	20.5	7.22	1239	1	0.26	163.4	1800	7.13	
0833	20.4	7.22	1239	1	0.23	163.3	2400	7.13	
0836	20.5	7.22	1239	1	0.23	163.3	3000	7.13	

HACH Field Test:	Ferrous Iron: — mg/L	
	Manganese: — mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3000 ml
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Sampling Time: 0841	Sampling Date: 10/13/2021
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Sample I.D.: J6038- T21B -101321	Laboratory: EUROFINs - TA
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Analyzed for: SEE COC

Blank I.D.: — @ Time	Duplicate I.D.: — @ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/11/2021</u>
Well I.D.: <u>T-23A</u>	Well Diameter (inch): <u>1</u>
Total Well Depth: <u>18.10</u>	Depth to Water: Pre: <u>7.00</u> Post: <u>7.08</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____
 Sampling Method: New Tubing Other: _____

Screen Interval: 10-20

Start Purge: 1420 Flow Rate: 200 ml/min Pump Depth: 15

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1423	20.4	6.85	1484	24	0.33	-39.6	600	7.00	clear
1426	20.4	6.85	1484	18	0.33	-42.1	1200	7.08	
1429	20.4	6.83	1484	13	0.33	-48.4	1800	7.08	
1432	20.4	6.83	1483	12	0.33	-49.6	2400	7.08	
1435	20.4	6.83	1484	12	0.32	-50.3	3000	7.08	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: <u>3000</u> ml
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Sampling Time: <u>1440</u>	Sampling Date: <u>10/11/2021</u>
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Sample I.D.: <u>J6038- T23A-101121</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: <u>SEE COC</u>

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: <u>SEE COC</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>CE</u>	Start Date: <u>10/12/21</u>
Well I.D.: <u>T-23B</u>	Well Diameter (inch): <u>2</u>
Total Well Depth: <u>29.10</u>	Depth to Water: Pre: <u>6.07</u> Post: <u>6.09</u> 6.07
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____
 Sampling Method: New Tubing Other: _____

Screen Interval: 27-30

Start Purge: 1038 Flow Rate: 200 ml/min Pump Depth: 28

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1041	22.1	6.70	1364	4	0.21	207.3	600	6.07	clear
1044	21.9	6.90	1359	4	0.11	189.2	1200	6.08	"
1047	21.8	6.90	1355	3	0.09	120.6	1800	6.09	"
1050	21.7	6.89	1352	3	0.08	84.2	2400	6.09	"
1053	21.6	6.89	1348	2	0.08	86.1	3000	6.09	"
1056	21.6	6.89	1348	3	0.08	88.7	3600	6.09	"

HACH Field Test:	Ferrous Iron: _____ mg/L	
	Manganese: _____ mg/L	

Did well dewater? Yes No Amount actually evacuated: 3600 ml

Sampling Time: 1101 Sampling Date: 10/12/21

Sample I.D.: J6038-T23B-101221 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/11/2021</u>
Well I.D.: <u>T-25A</u>	Well Diameter (inch): <u>1</u>
Total Well Depth: <u>18.90</u>	Depth to Water: Pre: <u>6.35</u> Post: <u>6.42</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 10-20

Start Purge: 1447 Flow Rate: 200 ml/min Pump Depth: 15

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1450	20.9	6.76	1307	47	0.26	-5.4	600	6.35	red/orange
1453	20.8	6.80	1296	42	0.20	-10.8	1200	6.39	↓
1456	20.8	6.82	1290	36	0.14	-13.2	1800	6.42	
1459	20.8	6.82	1293	35	0.15	-18.5	2400	6.42	
1502	20.8	6.82	1290	36	0.14	-20.6	3000	6.42	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: <u>3000</u> ml
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Sampling Time: <u>1507</u>	Sampling Date: <u>10/11/2021</u>
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Sample I.D.: <u>J6038-T25A-101121</u>	Laboratory: <u>EUROFINS - TA</u>
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Analyzed for: <u>SEE COC</u>

Blank I.D.: <u>—</u> @ <u>—</u> Time	Duplicate I.D.: <u>—</u> @ <u>—</u> Time
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Analyzed for: <u>SEE COC</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211011SC-1</u>	Client: <u>GES @ TRW Microwave - Sunnyvale, CA</u>
Sampler: <u>SC</u>	Start Date: <u>10/12/2021</u>
Well I.D.: <u>T-258D</u>	Well Diameter (inch): <u>2</u>
Total Well Depth: <u>36.00</u>	Depth to Water: Pre: <u>7.41</u> Post: <u>7.46</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>TOC</u>	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: Bladder Pump Other: _____
 Peristaltic Pump _____

Sampling Method: New Tubing Other: _____

Screen Interval: 33 - 36

Start Purge: 1124 Flow Rate: 200 ml/min Pump Depth: 34.5

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW (ft)	Observations
1127	23.8	7.27	1035	4	0.98	79.6	600	7.41	clear
1130	23.9	7.27	1036	2	0.96	80.1	1200	7.45	
1133	23.9	7.27	1035	2	0.97	82.4	1800	7.46	
1136	23.9	7.27	1035	1	0.98	81.6	2400	7.46	
1139	23.9	7.27	1035	1	0.98	81.3	3000	7.46	

HACH Field Test:	Ferrous Iron: <u>—</u> mg/L	
	Manganese: <u>—</u> mg/L	

Did well dewater? Yes No Amount actually evacuated: 3000 ml

Sampling Time: 1144 Sampling Date: 10/12/2021

Sample I.D.: J6038-T258D-101221 Laboratory: EUROFINS - TA

Analyzed for: SEE COC

Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____ @ _____ Time
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Analyzed for: SEE COC

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

EUROFINS -TA

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice to: NGC
 Report to: GES - Jennifer Clay 619-743-9953
 JeClay@gesonline.com
 Cc Report to: twright@gesonline.com

SSOW Ref. Code: 11224293-J6038-010

CHAIN OF CUSTODY

BTS # 2110115C-1

CLIENT: GES (Groundwater & Environmental Services)

SITE: TRW Microwave

825 Stewart Dr., Sunnyvale, CA

GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS		C = COMPOSITE ALL CONTAINERS	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				TOTAL	TYPE										
J6038-T08-101221	10/12/21	0935	W	1	250 NP Poly			X							
J6038-T2585-101221	1	1117	1	1	1			X							
J6038-T08-101221	1	1335	1	1	1			X							

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	10/12/2021	1335	Ciara Shirey	Standard TAT	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/12/2021	1700			
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	Page: of	
FedEx	10/12/2021	1700			

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB EUROFINS -TA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
 LIA
 OTHER
 RWQCB REGION

CHAIN OF CUSTODY

BTS # 2110115C-1

CLIENT: GES (Groundwater & Environmental Services)

SITE: TRW Microwave

825 Stewart Dr., Sunnyvale, CA

GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)
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SPECIAL INSTRUCTIONS

Invoice to: NGC

Report to: GES - Jennifer Clay 619-743-9953
 JeClay@gesonline.com

Cc Report to: twright@gesonline.com

SSOW Ref. Code: 11224293-J6038-010

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS		C = COMPOSITE ALL CONTAINERS	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				TOTAL	TYPE										
J6038-T17B-101221	10/12/21	0945	W	3	various		X								
J6038-T4B-101221		1017		3			X								
J6038-385-101221		1050		3			X								
J6038-T25BS-101221		1117		9			X	X	X	X					
J6038-T25BD-101221		1144		3			X								
J6038-T24B-101221		1130		3			X								
J6038-T23B-101221		1101		3			X								
J6038-T10B-101221		0935		9			X	X	X	X					
J6038-T16A-101221		0855		3			X								
J6038-T10C-101221		1255		3			X								

SAMPLING COMPLETED DATE 10/13/21 TIME 1230

SAMPLING PERFORMED BY Ciara Shirey

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE 10/13/2021	TIME 1330	RECEIVED BY	DATE 10/13/2021	TIME 1330
RELEASED BY	DATE 10/14/21	TIME 0945	RECEIVED BY	DATE 10-14-21	TIME 9:45
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA DATE SENT TIME SENT COOLER #

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB EUROFINS - TA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA RWQCB REGION
 LIA
 OTHER

CHAIN OF CUSTODY

CLIENT BTS # 211011SC-1

SITE

GES (Groundwater & Environmental Services)

TRW Microwave

825 Stewart Dr., Sunnyvale, CA

GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD ^	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)
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SPECIAL INSTRUCTIONS

Invoice to: NGC

Report to: GES - Jennifer Clay 619-743-9953
 JeClay@gesonline.com

Cc Report to: twright@gesonline.com

SSOW Ref. Code: 11224293-J6038-010

SAMPLE ID.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS		C	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD ^	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				TOTAL	TYPE										
J6038-T8B-101221	10/12/21	1335	W	9	various		X	X	X	X					
J6038-T8A-101221	10/12/21	1410		3			X								
J6038-T11C-101221-1	10/12/21	1305		3			X								
J6038-T11C-101221-2	10/12/21	1310		3			X								
J6038-T7B-101221-1	10/12/21	1430		3			X								
J6038-T7B-101221-2	10/12/21	1435		3			X								
J6038-T7A-101221-1	10/12/21	1450		3			X								
J6038-T7A-101221-2	10/12/21	1455		3			X								
J6038-T22B-101221	10/12/21	1028		3			X								
TRIPBLANK - J6038-101321	10/13/21	0730		2			X								

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	10/13/21	1230	Ciara Shirey	Standard TAT	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>CS</i>	10/13/2021	1330	<i>CS (sc)</i>	10/13/2021	1330
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	10/14/21	0945	<i>[Signature]</i>	10-14-21	945
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		
				Page: 3 of 4	

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB EUROFINS -TA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA
 LIA
 OTHER

RWQCB REGION

CHAIN OF CUSTODY

BTS # 21101150-1

CLIENT: GES (Groundwater & Environmental Services)

SITE: TRW Microwave

825 Stewart Dr., Sunnyvale, CA

GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)
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SPECIAL INSTRUCTIONS



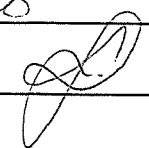
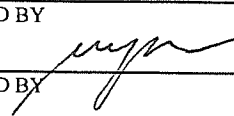
Invoice to: NGC

Report to: GES - Jennifer Clay 619-743-9953
 JeClay@gesonline.com

Cc Report to: twright@gesonline.com

SSOW Ref. Code: 11224293-J6038-010

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS		C	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				TOTAL	TYPE										
J6038-T56-101321-1	10/13/21	0801	W	3	various		X								
J6038-T56-101321-Z		0806		3			X								
J6038-T21B-101321		0841		3			X								
J6038-T18B-101321		0925		3			X								
J6038-T20B-101321		1002		3			X								
J6038-T12C-101321		1106		3			X								
J6038-T9C-101321		1135		3			X								
J6038-T19B-101321		1230		3			X								

SAMPLING COMPLETED	DATE: 10/13/21	TIME: 1230	SAMPLING PERFORMED BY: Ciara Shirey	RESULTS NEEDED NO LATER THAN: Standard TAT	
RELEASED BY: 	DATE: 10/13/2021	TIME: 1330	RECEIVED BY:  (SC)	DATE: 10/13/2021	TIME: 1330
RELEASED BY: 	DATE: 10/14/21	TIME: 0945	RECEIVED BY: 	DATE: 10-14-21	TIME: 945
RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
SHIPPED VIA:	DATE SENT:	TIME SENT:	COOLER #:	Page: 4 of 4	

WELLHEAD INSPECTION CHECKLIST

Page: 1 of 2

Client: GES

Date: 10/11/2021

Project Name/Site Address: TRW Microwave @ 825 Stewart Dr., Sunnyvale, CA

Job #: 211011SC-1

Technician(s): SC

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Debris Removed From Wellbox	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
36D	X							
36DD	X							
36S	X							
37S	X							
38S	X							
T-4B	X							
T-5B	X							
T-7A	X							
T-7B	X							
T-8A	X							
T-8B	X							
T-8D	X							
T-9A	X							
T-9C	X							
T-10B	X							
T-10C	X							
T-11C	X							
T-12C	X							
T-13A	X							
T-14A							X	

NOTES: T-14A: -2 1/2 bolts

WELLHEAD INSPECTION CHECKLIST

Page: 2 of 2

Client: GES

Date: 10/11/2021

Project Name/Site Address: TRW Microwave @ 825 Stewart Dr., Sunnyvale, CA

Job #: 211011SC-1

Technician(s): SC

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Debris Removed From Wellbox	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
T-15A	x							
T-16A	x							
T-17A	x							
T-17B	x							
T-18A							x	
T-18B	x							
T-19A	x							
T-19B								
T-20A	x							
T-20B	x							
T-21A	x							
T-21B	x							
T-22A							x	
T-22B	x							
T-23A	x							
T-23B							x	
T-24A							x	
T-24B							x	
T-25A	x							
T-25BS	x							
T-25BD	x							

NOTES: T-18A: 2/2 tabs broken, 2/2 bolts, well lid cracked
T-22A: 2/2 tabs broken T-24A: 2/2 bolts broken off in tabs
T-24B: See photo T-23B: 2/2 tabs broken, 1/2 bolts broken in tab

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME: GES @ TRW Microwave - Sunnyvale, CA					PROJECT NUMBER: Z11011SC-1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. (°C)	Standard Lot# / Exp. Date
YSI Pro Plus	20G10524	10/11/2021 @ 1100	pH: 7, 10, 4	7.00, 10.00, 4.00	yes	15	056161 5/2022
I	I	I	cond: 3900 μ S/cm	3900	yes	15	054278 3/25/2023
I	I	I	ORP: 241	241	yes	15	056161 May/2022
I	I	I	DO: 100%	100%	yes	15	—
YSI Pro Plus	21G103944	10/12/2021 @ 0800	pH: 7, 10, 4	7.00, 10.00, 4.00	yes	15	see above
I	I	I	cond: 3900	3900	yes	15	I
I	I	I	ORP: 241	241	yes	15	I
I	I	I	DO: 100%	100%	yes	15	I
YSI Pro Plus	21G103944	10/13/2021 @ 0715	pH: 7, 10, 4 DO: 100%	7.00, 10.02, 4.01 DO: 100%	yes	15	see above
I	I	I	cond: 3900	3900	yes	15	I
I	I	I	ORP: 241	241	yes	15	I

SPH or Purge Water Drum Log

Client: **GES**

Site Address: **NGC Microwave @ 825 Stewart Dr., Sunnyvale, CA**

STATUS OF DRUM(S) UPON ARRIVAL						
Date	10/9/19	10/12/2020	10/15/2020	10/11/2021		
Number of drum(s) empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:						
Total drum(s) on site:	0	0	0	0		
Are the drum(s) properly labeled?	/	/	/	NA		
Drum ID & Contents:	/	/	/	NA		
If any drum(s) are partially or totally filled, what is the first use date:	/	/	/	NA		

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.
- If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.
- All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	10/11/19		10/15/2020	10/13/2021		
Number of drums empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:	1			1		
Number of drum(s) 3/4 full:			1			
Number of drum(s) full:						
Total drum(s) on site:	1					
Are the drum(s) properly labeled?	YES					
Drum ID & Contents:	PURGE H ₂ O		purge H ₂ O	purge H ₂ O		

LOCATION OF DRUM(S)						
Describe location of drum(s): <i>IN FORMER TREATMENT SYSTEM PENCE</i>						

FINAL STATUS						
# of new drum(s) left onsite this event	1	1	1			
Date of inspection:	10/11/19	10/15/20	10/13/2021			
Drum(s) labelled properly:	YES	yes	yes			
Logged by BTS Field Tech:	TS	mf	SC			
Office reviewed by:	GR	GR	GR			

Appendix B – Technical Memorandum 2021 Annual Maintenance Inspection: Sub-Slab Depressurization (SSD) System

Technical Memorandum



To: Joshua Nandi, Northrop Grumman
From: Jennifer Clay, PG, GES
cc: Tom Wright, PG CHg, GES
Holly Holbrook, AECOM
Date: March 17, 2022
Re: TRW Microwave Site (Site), Sunnyvale, California: 2021 Annual Maintenance Inspection: Sub-Slab Depressurization (SSD) System

Groundwater Environmental Services, Inc. (GES) on behalf of Northrop Grumman, has prepared this technical memorandum (memo) for the 2021 Annual Maintenance Inspection: Sub-Slab Depressurization (SSD) System for the former TRW Microwave Site (Site) in Sunnyvale, California (**Attachment A**). The United States Environmental Protection Agency (USEPA) is the lead regulatory agency for the Site, after regulatory oversight transferred from the California Regional Water Quality Control Board – San Francisco Bay Region on August 7, 2014 (USEPA, 2014). This memo has been prepared to address a recommendation in the 2019 Five Year Review Report (USACE, 2019) to incorporate “long-term stewardship measures for the current vapor mitigation measures in place.” This memo provides a summary of the first annual visual inspection of the SSD system in place and observations made during the site visit conducted on October 12, 2021.

SSD Background

The passive SSD System was initially installed in August and September of 2014 as a proactive measure before renovation of the building. The purpose of the SSD was to mitigate potential vapor intrusion due to sub-slab concentrations of volatile organic compounds (VOCs). The sub-slab concentrations of VOCs were identified during a vapor intrusion assessment conducted in 2014 and reported in the Passive Sub-Slab Vapor Collection System Installation Work Plan (AECOM, 2014).

The major components of the SSD system consists of a series of permeable lateral vents (a combination of slotted polyvinyl chloride pipe and GeoVent™ Trenchless Gas Collection system) installed beneath the concrete slab for vapor collection, which are then connected to vertical risers that vent to the roof of the building via wind-powered roof turbines on each section of the building. The current vent layout is shown on **Attachment A**. A detailed description of the SSD system is documented in the Passive Sub-Slab Vapor Collection System Installation Work Plan (AECOM, 2014).

Between May 2015 and December 2015, the building conditions changed due to construction for the building tenant, Apple, Inc. (AECOM, 2016). Changes to the building included the installation of additional heating, ventilating, and air conditioning (HVAC) equipment on all three building roofs and the installation of barriers along the perimeter of the building roofs. In order to complete this work, modifications were made to the wind-powered roof turbines in each section of the building. The modifications included reducing the height of the roof turbine risers in some locations to install equipment over the top of the roof turbines.

In December 2015, AECOM performed an additional building survey and conducted vapor intrusion (VI) sampling to assess whether the VI risk had changed due to the tenant improvements. The survey included collection of three sub-slab samples, collection of nine indoor air samples, and collection of one outdoor ambient air sample, and concluded that, chemicals detected in indoor air do not pose a human health risk to current building occupants. The survey conclusion was based on the current building conditions, which included the building modifications completed for Apple, Inc. (AECOM, 2016).

SSD Visual Inspection

GES conducted a visual inspection of the SSD during a site visit on October 12, 2021. Access was granted by the current tenant Apple, Inc. The SSD system was visually documented to assess the system for its current working state. Observations were made regarding current building roof layout of HVAC systems, barriers, and roof equipment. Each of the three buildings associated with the site have a cluster of two to three vent risers that extend from the sub-slab collection laterals and penetrate the roof to allow for passive depressurization of the sub-slab area. Each vent riser is equipped with a wind-powered roof turbine, and during the site visit observations were made to assess if the turbines were freely turning and free of corrosion, were actively turning due to wind, and their current location relative to existing roof equipment. A photo log of current conditions is included as **Attachment A**.

SSD Observations

During the annual maintenance inspection of the SSD system, the following visual observations were noted:

- Wind barriers are still in place on all three buildings;
- The vent risers on the main building (**Attachment A**) are currently approximately 1-foot tall, the installed height was approximately 3-feet; and
- All roof turbines spin freely with manual assistance and do not appear to be seized due to corrosion or rust. During the site visit, only the roof turbines on the north building and one of the two roof turbines on the west building were observed to be spinning due to ambient wind.



Conclusions

The current configuration of the SSD system is consistent as configured during the December 2015 sampling and VI assessment (AECOM, 2016), and roof turbines are in working condition.

Recommendations

The roof turbines of the SSD system should be inspected during the 2022 sampling event tentatively scheduled to be conducted in fourth quarter 2022.



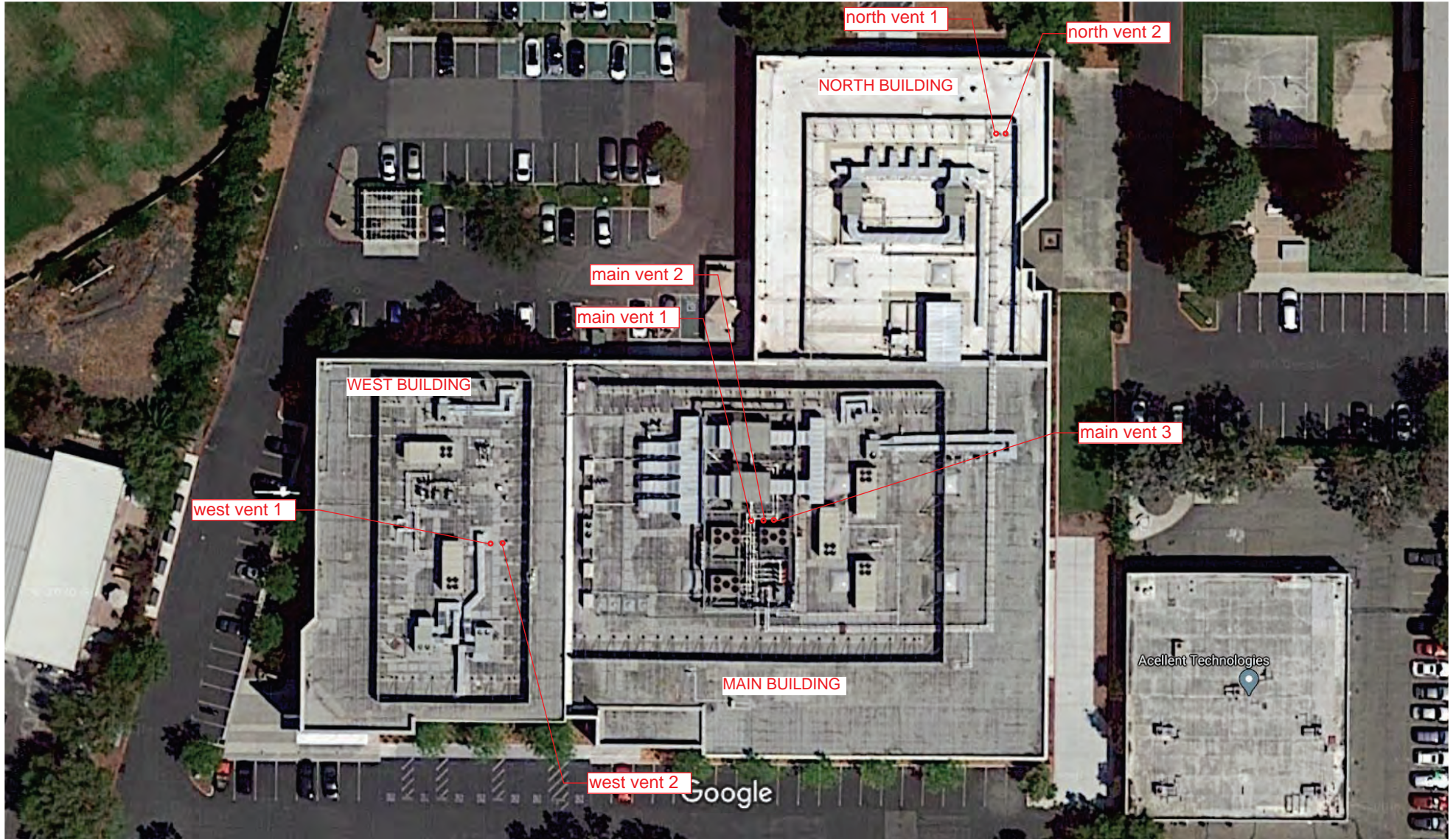
References

AECOM, 2014. Passive Sub-Slab Vapor Collection System Installation Work Plan, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. August 13.

AECOM, 2016. Vapor Intrusion Evaluation Report, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. February.

USACE, 2019. Fifth Five-Year Review Report for Advanced Micro Devices 901/902 and TRW Microwave Superfund Sites, Includes the Companies' Offsite Operable Unit, Santa Clara County, California. Prepared for USEPA. September 18.

USEPA, 2014. Notice of Lead Agency Transfer – California Regional Board to US EPA Triple Site: AMD 901/902 Thompson Place Superfund Site, Philips (formerly Signetics) Site, and TRW Microwave Superfund Site and Offsite Operable Unit, Sunnyvale, California.



Microwave - System Fan Locations

Inspected 10/12/2021

Ladder to main and north building. Ladder is in excellent condition and landing is secure.



System fan locations on north building. Two locations. Both fans actively spinning.



System fan locations on main building. Three locations. No fans actively spinning. All fans spin freely - no mechanical issues.



System fan locations on west building. Two locations. One of two fans actively spinning. All fans spin freely - no mechanical issues.



Appendix C – Historical Water-Level Elevation Measurements

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation	
			(feet BTOC)	(feet, MSL)	(feet, MSL)	
T-1A	A	1/16/1986	7.50	37.48	29.98	
		3/14/1986	6.35		31.13	
		5/13/1986	8.15		29.33	
		7/24/1986	8.93		28.55	
		10/2/1987	9.75		27.73	
		11/30/1987	11.64		25.84	
		2/24/1988	11.70		25.78	
		4/12/1988	12.62		24.86	
		7/26/1988	14.69		22.79	
		10/25/1988	15.17		22.31	
		1/10/1989	15.07		39.66	24.59
		4/3/1989	18.63			21.03
		9/14/1989	17.87			21.79
		10/10/1989	18.13			21.53
		1/8/1990	20.03			19.63
		4/6/1990	18.86			20.80
		7/5/1990	19.20			20.46
		10/9/1990	20.66			19.00
		1/8/1991	21.15			18.51
		4/9/1991	19.72	19.94		
		7/9/1991	22.22	17.44		
		10/7/1991	21.27	18.39		
		1/6/1992	20.17	19.49		
		4/6/1992	19.41	20.25		
		7/6/1992	20.13	19.53		
		10/29/1992	19.93	19.73		
		1/5/1993	19.50	20.16		
		4/5/1993	17.82	21.84		
		7/6/1993	NM	NA		
		10/15/1993	NM	NA		
		1/11/1994	14.03	25.63		
		4/4/1994	11.27	28.39		
		7/6/1994	10.51	29.15		
		10/5/1994	10.59	29.07		
		1/10/1995	NM	NA		
		4/5/1995	9.48	30.18		
		7/5/1995	NM	NA		
		10/9/1995	11.40	28.26		
		7/10/1996	12.67	26.99		
		10/1/1996	12.94	26.72		
4/1/1997	10.83	28.83				
10/1/1997	11.99	38.46	26.47			
4/1/1998	9.48		28.98			
10/5/1998	10.70		27.76			
4/5/1999	10.42		28.04			
10/4/1999	10.79		27.67			
10/2/2000	11.91		26.55			
10/1/2001	10.64		27.82			
10/14/2002	10.36		28.10			
10/9/2003	9.01		29.45			
Per Water Board approval, well T-1A was abandoned in February 2004.						
T-2A	A	5/13/1986	23.00	39.65	16.65	
		7/24/1986	12.73		26.92	
		10/2/1987	10.67		28.98	
		11/30/1987	12.15		27.50	
		2/24/1988	11.74		27.91	
		4/12/1988	15.32		24.33	
		7/26/1988	15.59		24.06	
		10/25/1988	15.88		23.77	
		1/10/1989	15.50		39.68	24.18
		4/3/1989	12.55	27.13		
		9/14/1989	16.31	23.37		
		10/10/1989	15.77	23.91		
		1/8/1990	12.88	26.80		
		4/6/1990	17.40	22.28		
		7/5/1990	16.06	23.62		
		10/9/1990	16.64	23.04		
		1/8/1991	10.18	29.50		
		4/9/1991	NM	NA		
7/9/1991	16.66	23.02				
10/7/1991	17.16	22.52				
1/6/1992	16.37	23.31				

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-2A continued	A continued	4/6/1992	16.91	39.68	22.77
		7/6/1992	15.26		24.42
		10/29/1992	16.61		23.07
		1/5/1993	Dry		NA
		4/5/1993	17.34		22.34
		7/6/1993	17.54		22.14
		10/15/1993	Dry		NA
		1/11/1994	18.47		21.21
		4/4/1994	Dry		NA
		7/6/1994	18.97		20.71
		10/5/1994	Dry		NA
		1/10/1995	18.65		21.03
		4/5/1995	17.91		21.77
		7/5/1995	19.25		20.43
		10/9/1995	18.60		21.08
		7/10/1996	17.45		22.23
		10/1/1996	12.56		27.12
		4/1/1997	17.32		22.36
		10/1/1997	16.70	40.99	24.29
		4/1/1998	12.08		28.91
		10/5/1998	Dry		NA
		4/5/1999	14.51		26.48
		10/4/1999	16.87		24.12
		10/2/2000	13.22		27.77
		10/1/2001	11.46	29.53	
		10/1/2002	9.42	39.46	30.04
		10/9/2003	8.56		30.90
		10/4/2004	9.02		30.44
		10/10/2005	7.82	31.64	
		10/16/2006	7.69	31.77	
		10/8/2007	7.39	42.16	34.77
		10/13/2008	7.83		34.33
10/12/2009	8.78	33.38			
10/11/2010	8.45	33.71			
11/15/2010	8.19	33.97			
3/8/2011	7.34	34.82			
5/3/2011	7.59	34.57			
10/10/2011	8.01	34.15			
4/26/2012	7.75	34.41			
10/8/2012	8.03	34.13			
5/22/2013	8.22	33.94			
10/14/2013	8.53	33.63			
4/14/2014	8.05	34.11			
9/24/2014	8.08	34.08			
Per USEPA approval, well T-2A was destroyed.					
T-3A	A	1/15/1986	7.90	39.66	31.76
		3/14/1986	7.16		32.50
		4/23/1986	9.50		30.16
		5/13/1986	9.75		29.91
		7/24/1986	9.89		29.77
		10/2/1987	8.68		30.98
		11/30/1987	9.78		29.88
		2/24/1988	9.62		30.04
		4/12/1988	9.30		30.36
		7/26/1988	10.01		29.65
		10/25/1988	9.75		29.91
		1/10/1989	NM		39.47
		4/3/1989	9.12	30.35	
		9/14/1989	10.04	29.43	
		10/10/1989	10.76	28.71	
		1/8/1990	9.73	29.74	
		4/6/1990	10.17	29.30	
		7/5/1990	10.22	29.25	
		10/9/1990	12.57	26.90	
		1/8/1991	10.65	28.82	
		4/9/1991	11.80	27.67	
		7/9/1991	12.50	26.97	
		10/7/1991	11.06	28.41	
1/6/1992	12.25	27.22			
4/6/1992	11.28	28.19			
7/6/1992	14.90	24.57			
10/29/1992	11.00	28.47			

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825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation	
			(feet BTOC)	(feet, MSL)	(feet, MSL)	
T-3A continued	A continued	1/5/1993	11.34	39.47	28.13	
		4/5/1993	10.95		28.52	
		7/6/1993	13.12		26.35	
		10/15/1993	13.73		25.74	
		1/11/1994	14.04		25.43	
		4/4/1994	13.64		25.83	
		7/6/1994	13.34		26.13	
		10/5/1994	10.72		28.75	
		1/10/1995	10.35		29.12	
		4/5/1995	9.70		29.77	
		7/5/1995	11.42		28.05	
		10/9/1995	11.73		27.74	
		7/10/1996	11.37		28.10	
		10/1/1996	11.69		27.78	
		4/1/1997	10.03		29.44	
		10/1/1997	10.82		39.04	28.22
		4/1/1998	8.42	30.62		
		10/5/1998	6.52	32.52		
		4/5/1999	9.46	29.58		
		10/4/1999	9.69	29.35		
		10/2/2000	9.97	29.07		
		10/1/2001	9.23	29.81		
		10/14/2002	8.90	30.14		
		10/9/2003	8.07	30.97		
		10/4/2004	8.56	30.48		
		10/10/2005	7.25	31.79		
		10/16/2006	7.11	31.93		
		10/8/2007	6.78	41.74		34.96
		10/13/2008	7.28			34.46
		10/12/2009	8.32			33.42
		10/11/2010	7.92			33.82
		10/10/2011	7.48		34.26	
10/8/2012	7.59	34.15				
10/14/2013	7.99	33.75				
4/14/2014	7.54	34.20				
9/24/2014	7.68	34.06				
Per USEPA approval, well T-3A was destroyed.						
T-6A	A	1/15/1986	9.75	37.99	28.24	
		5/13/1986	9.85		28.14	
		7/24/1986	10.14		27.85	
		10/2/1987	11.63		26.36	
		11/30/1987	12.30		25.69	
		2/24/1988	12.15		25.84	
		4/12/1988	12.61		25.38	
		7/26/1988	12.95		25.04	
		10/25/1988	13.35		24.64	
		1/10/1989	13.42		37.81	24.39
		4/3/1989	14.34			23.47
		9/14/1989	14.76			23.05
		10/10/1989	14.92			22.89
		1/8/1990	15.44			22.37
		4/6/1990	15.29			22.52
		7/5/1990	NM			NA
		10/9/1990	16.12	21.69		
		1/8/1991	16.03	21.78		
		4/9/1991	15.33	22.48		
		7/9/1991	14.79	23.02		
		10/7/1991	15.73	22.08		
		1/6/1992	16.33	21.48		
		4/6/1992	14.47	23.34		
		7/6/1992	14.20	23.61		
		10/29/1992	13.08	24.73		
		1/5/1993	12.98	24.83		
		4/5/1993	11.63	26.18		
		7/6/1993	12.48	25.33		
		10/15/1993	11.28	26.53		
		1/11/1994	12.48	25.33		
		4/4/1994	11.90	25.91		
		7/6/1994	11.54	26.27		
10/5/1994	10.80	27.01				
1/10/1995	10.66	27.15				
4/5/1995	8.89	28.92				

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Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-6A continued	A continued	7/5/1995	11.17	37.81	26.64
		10/9/1995	11.40		26.41
		7/10/1996	11.77		26.04
		10/1/1996	11.69		26.12
		4/1/1997	10.05		27.76
		10/1/1997	11.23	37.22	25.99
		4/1/1998	9.02		28.20
		10/5/1998	10.17		27.05
		4/5/1999	9.96		27.26
		10/4/1999	10.37		26.85
		10/2/2000	10.55		26.67
		10/1/2001	8.40		28.82
		10/14/2002	8.31		28.91
		10/9/2003	7.29		29.93
		10/10/2005	8.45		28.77
		10/16/2006	8.21		29.01
		10/8/2007	8.00	39.92	31.92
		10/13/2008	NM		NA
		10/12/2009	8.92		31.00
		10/11/2010	NM		NA
		10/10/2011	NM		NA
		10/8/2012	NM		NA
		10/14/2013	NM		NA
		10/12/2015	NM		NA
		5/26/2016	NM		NA
		10/10/2016	NM		NA
10/9/2017	NM		NA		
10/8/2018	NM		NA		
10/8/2019	NM		NA		
10/12/2020	NM		NA		
		10/8/2021	NM		NA
T-7A	A	1/16/1986	7.90	39.57	31.67
		3/12/1986	6.05		33.52
		3/14/1986	6.20		33.37
		4/22/1986	7.80		31.77
		4/23/1986	8.50		28.98
		5/13/1986	8.19		31.38
		7/24/1986	8.13		31.44
		10/2/1987	9.01		30.56
		11/30/1987	9.89		29.68
		2/24/1988	10.09		29.48
		4/12/1988	10.71		28.86
		7/26/1988	11.22		28.35
		10/25/1988	11.36		28.21
		1/10/1989	11.84	39.53	27.69
		4/3/1989	12.21		27.32
		9/14/1989	10.17		29.36
		10/10/1989	11.71		27.82
		1/8/1990	15.13		24.40
		4/6/1990	15.29		24.24
		7/5/1990	16.19		23.34
		10/9/1990	16.46		23.07
		1/8/1991	17.67		21.86
		4/9/1991	14.97		24.56
		7/9/1991	17.39		22.14
		10/7/1991	18.18		21.35
		1/6/1992	13.61		25.92
		4/6/1992	14.84		24.69
		7/6/1992	15.61		23.92
		10/29/1992	13.26		26.27
		1/5/1993	10.77		28.76
		4/5/1993	11.04		28.49
		7/6/1993	11.53		28.00
		10/15/1993	12.04		27.49
		1/11/1994	12.45		27.08
4/4/1994	12.52		27.01		
7/6/1994	12.21		27.32		
10/5/1994	10.60		28.93		
1/10/1995	8.88		30.65		
4/5/1995	8.56		30.97		
7/5/1995	10.55		28.98		
10/9/1995	9.76		29.77		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-7A continued	A continued	7/10/1996	10.11	39.53	29.42
		10/1/1996	10.10		29.43
		4/1/1997	8.60		30.93
		10/1/1997	9.34	38.97	29.63
		4/1/1998	7.46		31.51
		10/5/1998	8.22		30.75
		4/5/1999	8.37		30.60
		10/4/1999	8.55		30.42
		10/2/2000	8.41		30.56
		10/1/2001	8.37		30.60
		10/14/2002	8.23	39.39	31.16
		10/9/2003	7.07		32.32
		10/4/2004	7.68		31.71
		10/10/2005	6.44		32.95
		10/16/2006	6.33		33.06
		10/8/2007	6.14	42.09	35.95
		10/13/2008	6.54		35.55
		10/12/2009	7.31		34.78
		10/11/2010	7.05		35.04
		10/10/2011	6.60		35.49
		10/8/2012	6.75		35.34
		10/14/2013	7.11		34.98
		10/13/2014	6.89		35.20
		6/26/2015	7.01		35.08
		10/12/2015	7.71		34.38
		5/26/2016	6.70		35.39
		10/10/2016	7.70		34.39
10/9/2017	6.80	41.84	35.04		
10/8/2018	6.36		35.48		
10/8/2019	6.38		35.46		
10/12/2020	6.52		35.32		
		10/11/2021	7.42		34.42
T-8A	A	3/10/1986	6.11	38.36	32.25
		5/13/1986	11.55		26.81
		7/24/1986	13.34		25.02
		10/2/1987	9.66		28.70
		11/30/1987	10.70		27.66
		2/24/1988	11.09		27.27
		4/12/1988	NM		NA
		7/26/1988	15.85		22.51
		10/25/1988	14.77		23.59
		1/10/1989	NM	38.32	NA
		4/3/1989	15.06		23.26
		9/14/1989	14.40		23.92
		10/10/1989	16.67		21.65
		1/8/1990	14.10		24.22
		4/6/1990	15.11		23.21
		7/5/1990	14.73		23.59
		10/9/1990	15.46		22.86
		1/8/1991	15.84		22.48
		4/9/1991	14.54		23.78
		7/9/1991	15.21		23.11
		10/7/1991	15.68		22.64
		1/6/1992	15.40		22.92
		4/6/1992	14.76		23.56
		7/6/1992	14.08		24.24
		10/29/1992	13.23		25.09
		1/5/1993	12.92		25.40
		4/5/1993	15.57		22.75
		7/6/1993	12.52		25.80
		10/15/1993	15.78		22.54
		1/11/1994	13.97		24.35
		4/4/1994	13.20		25.12
		7/6/1994	12.67		25.65
		10/5/1994	11.95		26.37
		1/10/1995	11.91		26.41
4/5/1995	12.76		25.56		
7/5/1995	15.90		22.42		
10/9/1995	16.02		22.30		
7/10/1996	13.09		25.23		
10/1/1996	13.00		25.32		
4/1/1997	10.95		27.37		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level	
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)	
T-8A continued	A continued	10/1/1997	10.95	38.32	27.37	
		4/1/1998	8.21		30.11	
		10/5/1998	9.27		29.05	
		4/5/1999	8.75		29.57	
		10/4/1999	8.88		29.44	
		10/2/2000	9.43		28.89	
		10/1/2001	8.43		29.89	
		10/1/2002	8.10		37.68	29.58
		10/9/2003	7.27			30.41
		10/4/2004	7.70			29.98
		10/10/2005	6.48			31.20
		10/16/2006	6.35		31.33	
		10/8/2007	6.02		40.38	34.36
		10/13/2008	6.54			33.84
		10/12/2009	7.50	32.88		
		4/5/2010	6.16	34.22		
		10/11/2010	6.85*	33.53		
		5/2/2011	6.25	34.13		
		10/10/2011	6.68	33.70		
		4/26/2012	6.28	34.10		
		10/8/2012	6.86	33.52		
		5/20/2013	7.60	32.78		
		10/14/2013	7.25	33.13		
		4/14/2014	6.78	33.60		
		10/13/2014	6.67	33.71		
		6/26/2015	7.09	33.29		
		10/12/2015	7.68	32.70		
		5/26/2016	6.73	33.65		
10/10/2016	7.47	32.91				
10/9/2017	6.72	40.48	33.66			
10/8/2018	6.21		34.27			
10/8/2019	6.20		34.27			
10/12/2020	6.42		34.06			
		10/11/2021	6.62		33.85	
T-9A	A	3/12/1986	6.12	37.22	31.10	
		3/14/1986	13.50		23.72	
		3/17/1986	11.85		25.37	
		5/13/1986	12.12		25.10	
		10/2/1987	9.66		27.56	
		11/30/1987	11.98		25.24	
		2/24/1988	12.80		24.42	
		4/12/1988	12.01		25.21	
		7/26/1988	11.85		25.37	
		10/25/1988	12.34		24.88	
		1/10/1989	12.33		24.89	
		4/3/1989	12.54		24.68	
		9/14/1989	13.43		23.79	
		10/10/1989	14.63		22.59	
		1/8/1990	14.09		23.13	
		4/6/1990	14.10		23.12	
		7/5/1990	14.58		22.64	
		10/9/1990	15.26		21.96	
		1/8/1991	15.57		21.65	
		4/9/1991	14.31		22.91	
		7/9/1991	14.94		22.28	
		10/7/1991	15.34		21.88	
		1/6/1992	15.04		22.18	
		4/6/1992	14.52		22.70	
		7/6/1992	13.97		23.25	
		10/29/1992	13.21		24.01	
		1/5/1993	Dry		NA	
		4/5/1993	14.12		23.10	
		7/6/1993	12.80		24.42	
		10/15/1993	13.26		23.96	
		1/11/1994	15.20		22.02	
		4/4/1994	12.93		24.29	
7/6/1994	12.85	24.37				
10/5/1994	12.72	24.50				
1/10/1995	11.12	26.10				
4/5/1995	8.84	28.38				
7/5/1995	11.00	26.22				
10/9/1995	11.33	25.89				

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-9A continued	A continued	7/10/1996	10.67	37.22	26.55
		10/1/1996	11.03		26.19
		4/1/1997	9.88		27.34
		10/1/1997	11.29	37.21	25.92
		4/1/1998	8.57		28.64
		10/5/1998	9.17		28.04
		4/5/1999	10.07		27.14
		10/4/1999	9.94		27.27
		10/2/2000	11.30		25.91
		10/1/2001	8.67		28.54
		10/14/2002	8.27		28.94
		10/9/2003	7.51		29.70
		10/4/2004	7.84		29.37
		10/10/2005	6.53		30.68
		10/16/2006	6.77	36.52	29.75
		10/8/2007	6.33	39.22	32.89
		10/13/2008	6.80		32.42
		10/12/2009	7.89		31.33
		10/11/2010	7.53		31.69
		10/10/2011	7.07		32.15
		10/8/2012	7.26		31.96
		10/14/2013	7.71		31.51
		10/13/2014	6.60		32.62
		10/12/2015	7.90		31.32
		5/26/2016	6.99		32.23
		10/10/2016	7.61		31.61
10/9/2017	6.93		32.29		
10/8/2018	6.33	39.30	32.97		
10/8/2019	NM		NA		
10/12/2020	6.60		32.70		
		10/11/2021	6.82		32.47
T-13A	A	10/16/2006	6.58	38.06	31.48
		10/8/2007	6.31	40.76	34.45
		10/13/2008	6.92		33.84
		10/12/2009	7.78		32.98
		4/5/2010	6.38		34.38
		10/11/2010	7.44		33.32
		5/2/2011	6.57		34.19
		10/10/2011	7.04		33.72
		4/27/2012	6.51		34.25
		10/8/2012	7.12		33.64
		5/21/2013	7.29		33.47
		10/14/2013	7.49		33.27
		4/14/2014	7.02		33.74
		10/13/2014	7.01		33.75
		6/26/2015	7.34		33.42
		10/12/2015	8.06		32.70
		5/26/2016	7.00		33.76
		10/10/2016	7.99		32.77
		10/9/2017	7.03		33.73
		10/8/2018	6.40	40.99	34.59
10/8/2019	6.52		34.47		
10/12/2020	6.71		34.28		
		10/11/2021	7.10		33.89
T-14A	A	10/16/2006	6.52	37.92	31.40
		10/8/2007	6.30	40.62	34.32
		10/13/2008	6.73		33.89
		10/12/2009	7.71		32.91
		4/5/2010	6.28		34.34
		10/11/2010	7.38		33.24
		5/2/2011	6.50		34.12
		10/10/2011	6.93		33.69
		4/27/2012	6.49		34.13
		10/8/2012	7.07		33.55
		5/21/2013	7.31		33.31
		10/14/2013	7.46		33.16
		4/14/2014	7.01		33.61
		10/13/2014	6.92		33.70
		10/12/2015	7.93		32.69
		5/26/2016	6.92		33.70
		10/10/2016	7.67		32.95
10/9/2017	6.94		33.68		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-14A continued	A continued	10/8/2018	6.34	40.81	34.47
		10/8/2019	6.48		34.33
		10/12/2020	6.63		34.18
		10/11/2021	6.79		34.02
T-15A	A	10/16/2006	6.48	37.41	30.93
		10/8/2007	6.15	40.11	33.96
		10/13/2008	6.68		33.43
		10/12/2009	7.61		32.50
		10/11/2010	7.28		32.83
		10/10/2011	6.81		33.30
		4/26/2012	6.41		33.70
		10/8/2012	6.98		33.13
		5/20/2013	7.20		32.91
		10/14/2013	7.38		32.73
		4/14/2014	6.92		33.19
		10/13/2014	6.72		33.39
		10/12/2015	7.81		32.30
		5/26/2016	6.84		33.27
		10/10/2016	7.56		32.55
		10/9/2017	6.82		33.29
		10/8/2018	6.14	40.22	34.08
		10/8/2019	6.24		33.98
		10/12/2020	6.48		33.74
10/11/2021	6.79		33.43		
T-16A	A	10/16/2006	6.60	37.32	30.72
		10/8/2007	6.30	40.02	33.72
		10/13/2008	6.75		33.27
		10/12/2009	7.74		32.28
		10/11/2010	7.36		32.66
		10/10/2011	6.91		33.11
		10/8/2012	7.11		32.91
		10/14/2013	7.56		32.46
		10/13/2014	6.77		33.25
		10/12/2015	7.83		32.19
		10/10/2016	7.68		32.34
		10/9/2017	6.97		33.05
		10/8/2018	6.23	40.12	33.89
		10/8/2019	6.36		33.76
10/12/2020	6.55		33.57		
10/11/2021	6.83		33.29		
T-17A	A	4/26/2012	7.12	40.02	32.90
		11/13/2012	7.50	38.23	30.73
		5/20/2013	7.62		30.61
		10/14/2013	7.82		30.41
		4/14/2014	7.30		30.93
		10/13/2014	7.19		31.04
		6/26/2015	7.53		30.70
		10/12/2015	8.18		30.05
		5/26/2016	7.18		31.05
		10/10/2016	7.94		30.29
		10/9/2017	7.25		30.98
		10/8/2018	6.64	40.88	34.24
		10/8/2019	6.70		34.18
10/12/2020	6.92		33.96		
10/11/2021	6.63		34.25		
T-18A	A	9/4/2007	6.92	NS	NA
		10/8/2007	6.87		NA
		10/12/2009	8.28		NA
		10/11/2010	7.87		NA
		10/10/2011	7.42		NA
		10/8/2012	7.83		NA
		10/14/2013	7.96		NA
		10/13/2014	7.41		NA
		10/12/2015	8.43		NA
		10/10/2016	8.20		NA
		10/9/2017	7.47		NA
		10/8/2018	6.94	41.20	34.26
		10/8/2019	6.94		34.26
10/12/2020	7.13		34.07		
10/11/2021	7.27		33.93		
T-19A	A	9/4/2007	6.67	NS	NA
		10/8/2007	6.45		NA

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-19A continued	A continued	10/12/2009	8.01	NS	NA
		4/5/2010	6.49		NA
		10/11/2010	7.67		NA
		5/2/2011	6.80		NA
		10/10/2011	7.19		NA
		4/27/2012	6.71		NA
		10/8/2012	7.39		NA
		5/21/2013	7.52		NA
		10/14/2013	7.79		NA
		4/14/2014	7.39		NA
		10/13/2014	7.18		NA
		6/26/2015	7.53		NA
		10/12/2015	8.21		NA
		5/26/2016	7.21		NA
		10/10/2016	7.96		NA
		10/9/2017	7.25		NA
		10/8/2018	6.61		41.00
		10/8/2019	6.73	34.27	
10/12/2020	6.92	34.08			
		10/11/2021	7.10		33.90
T-20A	A	9/4/2007	6.70	NS	NA
		10/8/2007	6.32		NA
		10/12/2009	7.80		NA
		10/11/2010	7.44		NA
		10/10/2011	7.00		NA
		10/8/2012	7.16		NA
		10/14/2013	7.54		NA
		10/13/2014	7.01		NA
		10/12/2015	8.15		NA
		10/10/2016	7.77		NA
		10/9/2017	7.06		NA
		10/8/2018	6.43		40.86
		10/8/2019	6.56	34.30	
		10/12/2020	6.72	34.14	
		10/11/2021	6.90		33.96
T-21A	A	9/4/2007	6.69	NS	NA
		10/8/2007	6.62		NA
		10/12/2009	8.11		NA
		10/11/2010	7.83		NA
		10/10/2011	7.32		NA
		10/8/2012	7.43		NA
		10/14/2013	7.88		NA
		10/13/2014	7.28		NA
		10/12/2015	17.90		NA
		10/10/2016	8.03		NA
		10/9/2017	7.31		NA
		10/8/2018	6.73		41.20
		10/8/2019	6.77	34.43	
		10/12/2020	7.01	34.19	
		10/11/2021	7.19		34.01
T-22A	A	9/4/2007	6.65	NS	NA
		10/8/2007	6.63		NA
		10/12/2009	8.06		NA
		10/11/2010	7.70		NA
		10/10/2011	7.24		NA
		10/8/2012	7.35		NA
		10/14/2013	7.81		NA
		10/13/2014	7.29		NA
		10/12/2015	8.26		NA
		10/10/2016	8.07		NA
		10/9/2017	7.29		NA
		10/8/2018	6.16		NA
		10/8/2019	6.23		NA
				10/12/2020	7.00
		10/11/2021	7.18		NA
T-23A	A	9/4/2007	6.84	NS	NA
		10/8/2007	6.86		NA
		10/12/2009	8.38		NA
		4/5/2010	6.82		NA
		10/11/2010	7.90		NA
		5/2/2011	7.00		NA
		10/10/2011	7.49		NA

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level	
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)	
T-23A continued	A continued	4/27/2012	7.13	NS	NA	
		10/8/2012	7.53		NA	
		5/21/2013	7.82		NA	
		10/14/2013	8.06		NA	
		4/14/2014	7.61		NA	
		10/13/2014	7.48		NA	
		6/26/2015	7.80		NA	
		10/12/2015	8.44		NA	
		5/26/2016	7.49		NA	
		10/10/2016	8.27		NA	
		10/9/2017	7.49		NA	
		10/8/2018	7.19		41.44	34.25
		10/8/2019	6.95			34.49
		10/12/2020	7.05	34.39		
		10/11/2021	7.00		34.44	
T-24A	A	9/4/2007	6.68	NS	NA	
		10/8/2007	6.64		NA	
		10/11/2010	7.79		NA	
		10/10/2011	7.33		NA	
		10/8/2012	7.45		NA	
		10/14/2013	7.84		NA	
		10/13/2014	7.28		NA	
		10/12/2015	8.31		NA	
		10/10/2016	8.20		NA	
		10/9/2017	7.37		NA	
		10/8/2018	7.09		41.29	34.20
		10/8/2019	6.74			34.55
		10/12/2020	6.99			34.30
				10/11/2021	7.27	
T-25A	A	9/4/2007	5.86	NS	NA	
		10/8/2007	5.83		NA	
		10/12/2009	7.22		NA	
		4/5/2010	5.79		NA	
		10/11/2010	6.90		NA	
		5/2/2011	6.00		NA	
		10/10/2011	6.42		NA	
		4/26/2012	6.00		NA	
		10/8/2012	6.61		NA	
		5/20/2013	6.78		NA	
		10/14/2013	6.99		NA	
		4/14/2014	6.57		NA	
		10/13/2014	6.44		NA	
		6/26/2015	6.78		NA	
		10/12/2015	7.44		NA	
		5/26/2016	6.46		NA	
		10/10/2016	7.23		NA	
		10/9/2017	6.48		NA	
		10/8/2018	5.82		40.26	34.44
		10/8/2019	5.90	34.36		
10/12/2020	6.15	34.11				
		10/11/2021	6.35		33.91	
36-S	A	1/15/1986	7.50	39.21	31.71	
		3/12/1986	6.08		33.13	
		3/14/1986	5.94		33.27	
		4/21/1986	7.50		31.71	
		5/13/1986	6.51		32.70	
		7/24/1986	7.42		31.79	
		10/2/1987	8.55		30.66	
		11/30/1987	9.33		29.88	
		2/24/1988	9.54		29.67	
		4/12/1988	10.19		29.02	
		7/26/1988	10.47		28.74	
		10/25/1988	10.93		28.28	
		1/10/1989	11.14		39.03	27.89
		4/3/1989	11.60	27.43		
		9/14/1989	10.79	28.24		
		10/10/1989	10.72	28.31		
		1/8/1990	10.87	28.16		
		4/6/1990	12.64	26.39		
		7/5/1990	13.67	25.36		
		10/9/1990	11.33	27.70		
1/8/1991	Dry		NA			

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level	
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)	
36-S continued	A continued	4/9/1991	13.08	39.03	25.95	
		7/9/1991	13.93		25.10	
		10/7/1991	14.23		24.80	
		1/6/1992	12.98		26.05	
		4/6/1992	9.36		29.67	
		7/6/1992	11.80		27.23	
		10/29/1992	11.81		27.22	
		1/5/1993	11.35		27.68	
		4/5/1993	9.66		29.37	
		7/6/1993	10.69		28.34	
		10/15/1993	11.40		27.63	
		1/11/1994	11.82		27.21	
		4/4/1994	11.48		27.55	
		7/6/1994	10.90		28.13	
		10/5/1994	9.37		29.66	
		1/10/1995	7.60		31.43	
		4/5/1995	7.59		31.44	
		7/5/1995	9.25		29.78	
		10/9/1995	9.02		30.01	
		7/10/1996	9.14		29.89	
		10/1/1996	9.40		29.63	
		4/1/1997	7.85		31.18	
		Oct-97+	8.50		38.62	30.12
		4/1/1998	6.58			32.04
		10/5/1998	7.39			31.23
		4/5/1999	7.14			31.48
		10/4/1999	7.70	30.92		
		10/2/2000	7.79	30.83		
		10/1/2001	7.47	31.15		
		10/14/2002	7.37	31.25		
		10/9/2003	6.60	32.02		
		10/4/2004	6.93	31.69		
		10/10/2005	6.20	32.42		
10/16/2006	6.07	32.55				
10/8/2007	5.92	41.46	35.54			
10/13/2008	6.29		35.17			
10/12/2009	6.83		34.63			
10/11/2010	6.65		34.81			
10/10/2011	6.25		35.21			
10/8/2012	6.44		35.02			
10/14/2013	Dry	NA				
10/13/2014	6.59	34.87				
10/12/2015	7.28	34.18				
10/10/2016	6.94	34.52				
10/9/2017	6.40	35.06				
10/8/2018	5.92	41.44	35.52			
10/8/2019	6.11		35.33			
10/12/2020	6.15		35.29			
10/11/2021	6.32		35.12			
36-D	A	1/15/1986	7.50	39.06	31.56	
		3/10/1986	NM		NA	
		3/12/1986	5.90		33.16	
		3/14/1986	5.82		33.24	
		3/17/1986	NM		NA	
		4/21/1986	NM		NA	
		4/22/1986	7.20		31.86	
		4/23/1986	NM		NA	
		5/13/1986	7.37		31.69	
		7/24/1986	7.32		31.74	
		10/2/1987	8.32		30.74	
		11/30/1987	9.08		29.98	
		2/24/1988	9.35	29.71		
		4/12/1988	9.96	29.10		
		7/26/1988	10.23	28.83		
		10/25/1988	10.74	28.32		
		1/10/1989	10.95	38.88	27.93	
		4/3/1989	11.35		27.53	
		9/14/1989	11.71		27.17	
10/10/1989	11.68	27.20				
1/8/1990	12.51	26.37				
4/6/1990	13.55	25.33				
7/5/1990	13.93	24.95				

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level	
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)	
36-D continued	A continued	10/9/1990	13.26	38.88	25.62	
		1/8/1991	14.83		24.05	
		4/9/1991	13.66		25.22	
		7/9/1991	14.28		24.60	
		10/7/1991	14.51		24.37	
		1/6/1992	14.37		24.51	
		4/6/1992	10.68		28.20	
		7/6/1992	12.52		26.36	
		10/5/1992	11.40		27.48	
		1/5/1993	11.67		27.21	
		4/5/1993	11.00		27.88	
		7/6/1993	10.60		28.28	
		10/15/1993	11.26		27.62	
		1/11/1994	11.62		27.26	
		4/4/1994	11.26		27.62	
		7/6/1994	10.76		28.12	
		10/5/1994	9.02		29.86	
		1/10/1995	7.57		31.31	
		4/5/1995	7.41		31.47	
		7/5/1995	9.03		29.85	
		10/9/1995	8.71		30.17	
		7/10/1996	8.89		29.99	
		10/1/1996	9.16		29.72	
		4/1/1997	7.61		31.27	
		Oct-97+	8.20		38.40	30.20
		4/1/1998	6.38			32.02
		10/5/1998	7.19			31.21
		4/5/1999	7.17	31.23		
		10/4/1999	7.43	30.97		
		10/2/2000	7.52	30.88		
		10/1/2001	7.24	31.16		
		10/14/2002	7.12	31.28		
		10/9/2003	6.40	32.00		
10/4/2004	6.72	31.68				
10/10/2005	5.96	32.44				
10/16/2006	5.82	32.58				
10/8/2007	5.67	41.26	35.59			
10/13/2008	6.02		35.24			
10/12/2009	6.61		34.65			
10/11/2010	6.43		34.83			
10/10/2011	6.03		35.23			
10/8/2012	6.20		35.06			
10/14/2013	6.44		34.82			
10/13/2014	6.34		34.92			
10/12/2015	7.04		34.22			
10/10/2016	6.92		34.34			
10/9/2017	6.18	35.08				
10/8/2018	5.71	41.20	35.49			
10/8/2019	5.84		35.36			
10/12/2020	5.91		35.29			
10/11/2021	6.78		34.42			
37-S	A	1/15/1986	8.20	40.19	31.99	
		3/12/1986	6.42		33.77	
		3/14/1986	6.44		33.75	
		5/13/1986	8.54		31.65	
		7/24/1986	8.53		31.66	
		10/2/1987	8.53		31.66	
		11/30/1987	10.64		29.55	
		2/24/1988	10.65		29.54	
		4/12/1988	11.24		28.95	
		7/26/1988	11.92		28.27	
		10/25/1988	12.03		28.16	
		1/10/1989	12.47		39.70	27.23
		4/3/1989	13.00	26.70		
		9/14/1989	11.73	27.97		
		10/10/1989	12.20	27.50		
		1/8/1990	Dry	NA		
		4/6/1990	Dry	NA		
		7/5/1990	Dry	NA		
10/9/1990	Dry	NA				
1/8/1991	Dry	NA				
4/9/1991	Dry	NA				

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
37-S continued	A continued	7/9/1991	Dry	39.70	NA
		10/7/1991	Dry		NA
		1/6/1992	Dry		NA
		4/6/1992	Dry		NA
		7/6/1992	Dry		NA
		10/29/1992	Dry		NA
		1/5/1993	Dry		NA
		4/5/1993	9.80		29.90
		7/6/1993	12.01		27.69
		10/15/1993	11.72		27.98
		1/11/1994	12.73		26.97
		4/4/1994	12.46		27.24
		7/6/1994	11.81		27.89
		10/5/1994	10.69		29.01
		1/10/1995	10.56		29.14
		4/5/1995	8.34		31.36
		7/5/1995	9.85		29.85
		10/9/1995	9.86		29.84
		7/10/1996	9.25		30.45
		10/1/1996	9.67		30.03
		4/1/1997	8.29	31.41	
		10/1/1997	9.20	39.24	30.04
		4/1/1998	7.38	31.86	
		10/5/1998	8.42	30.82	
		4/5/1999	8.33	32.10	
		10/4/1999	8.36	31.54	
		10/2/2000	8.49	30.75	
		10/1/2001	8.40	30.84	
		10/14/2002	8.23	39.79	31.56
		10/9/2003	7.38	32.41	
		10/4/2004	7.82	31.97	
		10/10/2005	6.21	33.58	
		10/16/2006	5.95	33.84	
10/8/2007	5.60	42.06	36.46		
10/13/2008	6.20	35.86			
10/12/2009	7.30	34.76			
10/11/2010	6.92	35.14			
10/10/2011	6.43	35.63			
10/8/2012	6.56	35.50			
10/14/2013	7.01	35.05			
10/13/2014	6.79	35.27			
10/12/2015	7.71	34.35			
10/10/2016	7.58	34.48			
10/9/2017	6.70	35.36			
10/8/2018	6.10	42.01	35.91		
10/8/2019	6.23	34.78			
10/12/2020	6.36	34.65			
		10/11/2021	7.02		33.99
38-S	A	1/15/1986	8.80	39.14	30.34
		3/14/1986	7.34		31.80
		5/13/1986	9.95		29.19
		7/24/1986	10.52		28.62
		10/2/1987	11.49		27.65
		11/30/1987	12.68		26.46
		2/24/1988	12.55		26.59
		4/12/1988	12.68		26.46
		7/26/1988	13.12		26.02
		10/25/1988	13.62		25.52
		1/10/1989	13.68	38.85	25.17
		4/3/1989	13.97		24.88
		9/14/1989	14.53		24.32
		10/10/1989	14.32		24.53
		1/8/1990	Dry		NA
		4/6/1990	Dry		NA
		7/5/1990	Dry		NA
		10/9/1990	Dry		NA
		1/8/1991	Dry		NA
		4/9/1991	Dry		NA
7/9/1991	Dry	NA			
10/7/1991	Dry	NA			
1/6/1992	Dry	NA			
4/6/1992	Dry	NA			

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
38-S continued	A continued	7/6/1992	Dry	38.85	NA
		10/29/1992	Dry		NA
		1/5/1993	13.97		24.88
		4/5/1993	13.08		25.77
		7/6/1993	14.30		24.55
		10/15/1993	Dry		NA
		1/11/1994	14.45		24.40
		4/4/1994	14.19		24.66
		7/6/1994	13.70		25.15
		10/5/1994	9.81		29.04
		1/10/1995	11.36		27.49
		4/5/1995	9.50		29.35
		7/5/1995	11.62		27.23
		10/9/1995	12.12		26.73
		7/10/1996	11.74		27.11
		10/1/1996	11.91		26.94
		4/1/1997	10.45		28.40
		10/1/1997	11.63		26.72
		4/1/1998	9.15		29.20
		10/5/1998	10.81	27.54	
		4/5/1999	10.72	27.63	
		10/4/1999	10.50	27.85	
		10/2/2000	11.21	27.14	
		10/1/2001	10.05	28.30	
		10/14/2002	9.57	28.78	
		10/9/2003	8.63	29.72	
		10/4/2004	9.12	29.23	
		10/10/2005	7.57	30.78	
		10/16/2006	7.56	30.79	
		10/8/2007	7.07	33.98	
		10/13/2008	7.71	33.34	
		10/12/2009	9.02	32.03	
		10/11/2010	8.55	32.50	
		10/10/2011	8.05	33.00	
		4/26/2012	7.59	33.46	
		10/8/2012	8.25	32.80	
		5/20/2013	8.65	32.40	
		10/14/2013	8.64	32.41	
		10/13/2014	7.86	33.19	
		10/12/2015	8.97	32.08	
		10/10/2016	8.79	32.26	
10/9/2017	7.92	33.13			
10/8/2018	7.35	33.78			
10/8/2019	7.29	33.84			
10/12/2020	7.70	33.43			
10/11/2021	7.96	33.17			
Eductor	A	5/13/1986	11.59	40.28	28.69
		10/2/1987	11.50		28.78
		11/30/1987	NM		NA
		2/24/1988	12.74		27.54
		4/12/1988	12.95		27.33
		7/26/1988	13.30		26.98
		10/25/1988	12.33		27.95
		1/10/1989	10.59		29.69
		4/3/1989	11.63		28.65
		9/14/1989	11.55		28.73
		10/10/1989	12.40		27.88
		1/8/1990	12.07		28.21
		4/6/1990	11.89		28.39
		7/5/1990	11.72		28.56
		10/9/1990	12.76		27.52
		1/8/1991	12.66		27.62
		4/9/1991	14.99		25.29
		7/9/1991	16.04		24.24
		10/7/1991	16.72		23.56
		1/6/1992	15.25		25.03
		4/6/1992	15.13		25.15
		7/6/1992	15.60		24.68
		10/29/1992	13.92		26.36
		1/5/1993	15.54		24.74
		4/5/1993	15.08		25.20
		7/6/1993	16.37		23.91

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level	
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)	
Eductor continued	A continued	10/15/1993	16.54	40.28	23.74	
		1/11/1994	16.50		23.78	
		4/4/1994	16.56		23.72	
		7/6/1994	16.35		23.93	
		10/5/1994	16.24		24.04	
		1/10/1995	15.98		24.30	
		4/5/1995	16.11		24.17	
		7/5/1995	16.08		24.20	
		10/9/1995	16.25		24.03	
		7/10/1996	16.37		23.91	
		10/1/1996	NM		NA	
		4/1/1997	15.90		24.38	
		10/1/1997	16.22		41.07	24.85
		4/1/1998	16.09			24.98
		10/5/1998	11.87	29.20		
		4/5/1999	16.08	24.99		
		10/4/1999	15.97	25.10		
		10/2/2000	16.31	24.76		
		10/1/2001	11.27	29.80		
		10/1/2002	9.36	39.54	30.18	
		10/9/2003	8.57		30.97	
		10/4/2004	9.03		30.51	
		10/10/2005	7.89	42.24	31.65	
		10/16/2006	7.78		31.76	
		10/8/2007	7.50		34.74	
		10/13/2008	7.88		34.36	
		10/12/2009	8.81		33.43	
		10/11/2010	8.48		33.76	
		11/15/2010	8.15		34.09	
		3/8/2011	7.75		34.49	
5/3/2011	7.54	34.70				
10/10/2011	8.39	33.85				
4/27/2012	7.69	34.55				
10/8/2012	8.08	34.16				
10/17/2012	8.76	33.48				
10/14/2013	8.45*	* corrected for soybean oil	33.79			
4/14/2014	7.89	34.35				
9/24/2014	8.20	34.04				
Per USEPA approval, the Eductor was destroyed.						
T-1B	B1	1/16/1986	7.70	37.40	29.70	
		3/12/1986	6.29		31.11	
		3/14/1986	7.47		29.93	
		4/21/1986	9.40		28.00	
		5/13/1986	8.23		29.17	
		7/24/1986	9.75		27.65	
		10/2/1987	10.45		26.95	
		11/30/1987	12.70		24.70	
		2/24/1988	12.86		24.54	
		4/12/1988	14.03		23.37	
		7/26/1988	15.21		22.19	
		10/25/1988	15.90		21.50	
		1/10/1989	15.46		39.68	24.22
		4/3/1989	18.95			20.73
		9/14/1989	18.23	21.45		
		10/10/1989	18.49	21.19		
		1/8/1990	20.54	19.14		
		4/6/1990	19.38	20.30		
		7/5/1990	19.92	19.76		
		10/9/1990	21.07	18.61		
		1/8/1991	21.60	18.08		
		4/9/1991	20.54	19.14		
		7/12/1991	21.05	18.63		
		10/7/1991	21.78	17.90		
		1/6/1992	20.94	18.74		
		4/6/1992	19.53	20.15		
		7/6/1992	20.38	19.30		
		10/5/1992	18.86	20.82		
		1/5/1993	20.28	19.40		
		4/5/1993	18.52	21.16		
7/6/1993	19.64	20.04				
10/15/1993	13.34	26.34				
1/11/1994	16.93	22.75				

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-1B continued	B1 continued	4/4/1994	15.01	39.68	24.67
		7/6/1994	13.47		26.21
		10/5/1994	12.80		26.88
		1/10/1995	12.60		27.08
		4/5/1995	10.95		28.73
		7/5/1995	13.86		25.82
		10/9/1995	12.84		26.84
		7/10/1996	13.97		25.71
		10/1/1996	14.51		25.17
		4/1/1997	11.88		39.53
		10/1/1997	12.90	39.02	26.12
		4/1/1998	10.56	28.46	
		10/5/1998	11.66	27.36	
		4/5/1999	11.87	27.15	
		10/4/1999	11.46	27.56	
		10/2/2000	13.09	25.93	
		10/1/2001	11.54	27.48	
		10/14/2002	10.99	28.03	
10/9/2003	9.31	29.71			
Per Water Board approval, well 1B was abandoned in February 2004.					
T-2B	B1	3/14/1986	9.19	39.69	30.50
		5/13/1986	26.24		13.45
		7/24/1986	19.23		20.46
		10/2/1987	20.46		19.23
		11/30/1987	25.89		13.80
		2/24/1988	26.00		13.69
		4/12/1988	24.56		15.13
		7/26/1988	23.00		16.69
		10/25/1988	26.29		13.40
		1/10/1989	26.07		39.67
		4/3/1989	23.84	15.83	
		9/14/1989	23.42	16.25	
		10/10/1989	23.53	16.14	
		1/8/1990	22.99	16.68	
		4/6/1990	24.96	14.71	
		7/5/1990	29.13	10.54	
		10/9/1990	23.96	15.71	
		1/8/1991	24.32	15.35	
		4/9/1991	24.75	14.92	
		7/12/1991	24.67	15.00	
		10/7/1991	29.98	9.69	
		1/6/1992	16.95	22.72	
		4/6/1992	27.36	12.31	
		7/6/1992	15.70	23.97	
		10/5/1992	26.35	13.32	
		1/5/1993	24.65	15.02	
		4/5/1993	24.94	14.73	
		7/6/1993	26.50	13.17	
		10/15/1993	22.98	16.69	
		1/11/1994	21.31	18.36	
		4/4/1994	26.18	13.49	
		7/6/1994	21.36	18.31	
		10/5/1994	25.32	14.35	
		1/10/1995	26.98	12.69	
4/5/1995	10.75	28.92			
7/5/1995	22.58	17.09			
10/9/1995	25.44	14.23			
7/10/1996	23.00	16.67			
10/1/1996	14.08	25.59			
4/1/1997	26.15	13.52			
10/1/1997	NM	39.24	NA		
4/1/1998	25.58	13.66			
10/5/1998	11.89	27.35			
4/5/1999	Dry	NA			
10/4/1999	25.48	13.76			
10/2/2000	10.76	28.48			
10/1/2001	9.76	29.48			
10/1/2002	9.79	39.53	29.74		
10/9/2003	8.56	30.97			
10/4/2004	9.04	30.49			
10/10/2005	7.71	31.82			
10/16/2006	7.57	31.96			

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation	
			(feet BTOC)	(feet, MSL)	(feet, MSL)	
T-2B continued	B1 continued	10/8/2007	7.29	42.23	34.94	
		10/13/2008	8.05		34.18	
		10/12/2009	8.82		33.41	
		10/11/2010	8.41		33.82	
		11/15/2010	8.11		34.12	
		3/8/2011	7.33		34.90	
		5/3/2011	7.44		34.79	
		10/10/2011	7.89		34.34	
		4/26/2012	7.37		34.86	
		10/8/2012	8.08		34.15	
		5/22/2013	8.19		34.04	
		10/14/2013	8.36		33.87	
		4/14/2014	7.91		34.32	
		9/24/2014	8.18		34.05	
Per USEPA approval, well T-2B was destroyed.						
T-4B	B1	1/16/1986	9.30	38.96	29.66	
		3/14/1986	12.96		26.00	
		4/21/1986	15.60		23.36	
		5/13/1986	11.51		27.45	
		7/24/1986	15.88		23.08	
		10/2/1987	15.32		23.64	
		11/30/1987	19.59		19.37	
		2/24/1988	18.67		20.29	
		4/12/1988	19.63		19.33	
		7/26/1988	19.87		19.09	
		10/25/1988	20.98		17.98	
		1/10/1989	20.75		38.70	17.95
		4/3/1989	20.95			17.75
		9/14/1989	19.64	19.06		
		10/10/1989	19.50	19.20		
		1/8/1990	21.53	17.17		
		4/6/1990	20.47	18.23		
		7/5/1990	NA	NM		
		10/9/1990	22.95	15.75		
		1/8/1991	23.04	15.66		
		4/9/1991	22.69	16.01		
		7/9/1991	23.36	15.34		
		10/7/1991	24.44	14.26		
		1/6/1992	22.57	16.13		
		4/6/1992	21.83	16.87		
		7/6/1992	22.19	16.51		
		10/5/1992	20.42	18.28		
		1/5/1993	22.31	16.39		
		4/5/1993	21.46	17.24		
		7/6/1993	22.40	16.30		
		10/15/1993	19.84	18.86		
		1/11/1994	22.61	16.09		
		4/4/1994	22.16	16.54		
		7/6/1994	20.57	18.13		
		10/5/1994	17.33	21.37		
		1/10/1995	16.87	21.83		
		4/5/1995	14.26	24.44		
		7/5/1995	16.33	22.37		
		10/9/1995	16.75	21.95		
		7/10/1996	16.78	21.92		
		10/1/1996	18.70	20.00		
		4/1/1997	15.63	23.07		
		10/1/1997	15.89	38.23	22.34	
4/1/1998	12.93	25.30				
10/5/1998	13.89	24.34				
4/5/1999	16.11	22.12				
10/4/1999	14.07	24.16				
10/2/2000	16.43	21.80				
10/1/2001	13.36	24.87				
10/14/2002	12.39	25.84				
10/9/2003	11.00	27.23				
10/4/2004	10.91	27.32				
10/10/2005	8.32	29.91				
10/16/2006	8.07	30.16				
10/8/2007	7.60	40.93	33.33			
10/13/2008	8.98		31.95			
10/12/2009	10.71		30.22			

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-4B continued	B1 continued	10/11/2010	9.86	40.93	31.07
		10/10/2011	9.16		31.77
		10/8/2012	9.38		31.55
		10/14/2013	9.71		31.22
		10/13/2014	9.00		31.93
		6/26/2015	9.39		31.54
		10/12/2015	10.10		30.83
		5/26/2016	9.00		31.93
		10/10/2016	9.47		31.46
		10/9/2017	8.51		32.42
		10/8/2018	7.79	40.98	33.19
		10/8/2019	8.00		32.98
		10/12/2020	8.48		32.50
		10/11/2021	8.69		32.29
T-5B	B1	1/16/1986	10.00	40.67	30.67
		3/14/1986	10.37		30.30
		4/23/1986	11.20		29.47
		5/13/1986	10.11		30.56
		7/24/1986	10.86		29.81
		10/2/1987	15.75		24.92
		11/30/1987	17.12		23.55
		2/24/1988	16.62		24.05
		4/12/1988	19.20		21.47
		7/26/1988	18.63		22.04
		10/25/1988	20.71		19.96
		1/10/1989	20.80	39.67	18.87
		4/3/1989	20.55		19.12
		9/14/1989	21.12		18.55
		10/10/1989	21.03		18.64
		1/8/1990	21.85		17.82
		4/6/1990	22.92		16.75
		7/5/1990	23.06		16.61
		10/9/1990	22.87		16.80
		1/8/1991	23.27		16.40
		4/9/1991	22.81		16.86
		7/12/1991	23.00		16.67
		10/7/1991	23.79		15.88
		1/6/1992	23.07		16.60
		4/6/1992	20.59		19.08
		7/6/1992	20.80		18.87
		10/5/1992	17.55		22.12
		1/5/1993	19.04		20.63
		4/5/1993	21.24		18.43
		7/6/1993	21.08		18.59
		10/15/1993	20.65		19.02
		1/11/1994	22.15		17.52
		4/4/1994	21.13		18.54
		7/6/1994	20.93		18.74
		10/5/1994	18.77		20.90
		1/10/1995	18.75		20.92
		4/5/1995	17.70		21.97
		7/5/1995	18.75		20.92
		10/9/1995	18.24		21.43
		7/10/1996	20.65		19.02
		10/1/1996	20.60		19.07
		4/1/1997	17.28		22.39
		10/1/1997	17.32	39.21	21.89
		4/1/1998	15.45		23.76
		10/5/1998	17.77		21.44
		4/5/1999	19.38		19.83
		10/4/1999	10.46		28.75
10/2/2000	19.25		19.96		
10/1/2001	14.99		24.22		
10/14/2002	15.43	39.75	24.32		
10/9/2003	13.95		25.80		
10/4/2004	13.70		26.05		
10/10/2005	6.17		33.58		
10/16/2006	5.31		34.44		
10/8/2007	4.99	42.45	37.46		
10/13/2008	15.72		26.73		
10/12/2009	14.55		27.90		
10/11/2010	10.45		32.00		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-5B continued	B1 continued	10/10/2011	10.04	42.45	32.41
		10/8/2012	10.33		32.12
		10/14/2013	9.99		32.46
		10/13/2014	9.62		32.83
		10/12/2015	10.06		32.39
		10/10/2016	9.44		33.01
		10/9/2017	8.41	41.95	33.54
		10/8/2018	7.63		34.32
		10/8/2019	8.41		33.54
		10/12/2020	9.27		32.68
				10/11/2021	9.40
T-7B	B1	1/16/1986	9.70	39.43	29.73
		3/12/1986	8.16		31.27
		3/14/1986	9.90		29.53
		4/22/1986	11.00		28.43
		5/13/1986	9.65		29.78
		7/24/1986	10.75		28.68
		10/2/1987	13.98		25.45
		11/30/1987	15.75		23.68
		2/24/1988	15.21		24.22
		4/12/1988	16.83		22.60
		7/26/1988	16.37		23.06
		10/25/1988	18.16		21.27
		1/10/1989	17.82	39.44	21.62
		4/3/1989	16.99		22.45
		9/14/1989	19.35		20.09
		10/10/1989	19.60		19.84
		1/8/1990	20.56		18.88
		4/6/1990	20.37		19.07
		7/5/1990	21.16		18.28
		10/9/1990	20.79		18.65
		1/8/1991	21.01		18.43
		4/9/1991	20.48		18.96
		7/12/1991	20.77		18.67
		10/7/1991	21.77		17.67
		1/6/1992	20.98		18.46
		4/6/1992	17.20		22.24
		7/6/1992	17.63		21.81
		10/5/1992	16.52		22.92
		1/5/1993	19.15		20.29
		4/5/1993	18.53		20.91
		7/6/1993	17.95		21.49
		10/15/1993	16.60		22.84
		1/11/1994	19.20		20.24
		4/4/1994	17.90		21.54
		7/6/1994	17.76		21.68
		10/5/1994	15.67		23.77
		1/10/1995	15.45		23.99
		4/5/1995	13.99		25.45
		7/5/1995	15.71		23.73
		10/9/1995	14.50		24.94
		7/10/1996	16.35		23.09
		10/1/1996	16.68		22.76
		4/1/1997	14.22		25.22
		10/1/1997	14.34	38.87	24.53
		4/1/1998	12.54		26.33
		10/5/1998	13.62		25.25
		4/5/1999	14.74		24.13
		10/4/1999	11.31		27.56
		10/2/2000	14.68		24.19
		10/1/2001	12.67		26.20
10/14/2002	12.24	39.31	27.07		
10/9/2003	8.62		30.69		
10/4/2004	9.35		29.96		
10/10/2005	5.61		33.70		
10/16/2006	5.14		34.17		
10/8/2007	4.93	42.01	37.08		
10/13/2008	8.76		33.25		
10/12/2009	8.47		33.54		
10/11/2010	7.94		35.00		
10/10/2011	6.39		35.62		
10/8/2012	6.55		35.46		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation	
			(feet BTOC)	(feet, MSL)	(feet, MSL)	
T-7B continued	B1 continued	10/14/2013	6.73	42.01	35.28	
		10/13/2014	6.64		35.37	
		6/26/2015	6.91		35.10	
		10/12/2015	7.57		34.44	
		5/26/2016	6.41		35.60	
		10/10/2016	6.92		35.09	
		10/9/2017	5.61		36.40	
		10/8/2018	4.97	41.75	36.78	
		10/8/2019	5.19		36.56	
		10/12/2020	5.57		36.18	
		10/11/2021	6.97		34.78	
T-8B	B1	3/10/1986	6.41	38.34	31.93	
		3/17/1986	24.30		14.04	
		5/13/1986	23.50		14.84	
		7/24/1986	10.24		28.10	
		10/2/1987	21.02		17.32	
		11/30/1987	11.15		27.19	
		2/24/1988	30.26		8.08	
		4/12/1988	26.35		11.99	
		7/26/1988	12.47		25.87	
		10/25/1988	24.34		14.00	
		1/10/1989	NM		38.30	NA
		4/3/1989	24.65			13.65
		9/14/1989	22.32			15.98
		10/10/1989	13.86	24.44		
		1/8/1990	14.56	23.74		
		4/6/1990	26.09	12.21		
		7/5/1990	24.13	14.17		
		10/9/1990	23.80	14.50		
		1/8/1991	24.15	14.15		
		4/9/1991	25.41	12.89		
		7/12/1991	24.89	13.41		
		10/7/1991	27.44	10.86		
		1/6/1992	16.06	22.24		
		4/6/1992	20.11	18.19		
		7/6/1992	16.34	21.96		
		10/5/1992	14.51	23.79		
		1/5/1993	14.67	23.63		
		4/5/1993	24.44	13.86		
		7/6/1993	13.10	25.20		
		10/15/1993	21.81	16.49		
		1/11/1994	25.92	12.38		
		4/4/1994	23.25	15.05		
		7/6/1994	24.00	14.30		
		10/5/1994	25.92	12.38		
		1/10/1995	29.36	8.94		
		4/5/1995	31.59	6.71		
		7/5/1995	11.11	27.19		
		10/9/1995	31.00	7.30		
		7/10/1996	10.97	27.33		
		10/1/1996	30.87	7.43		
		4/1/1997	28.40	9.90		
		10/1/1997	13.44	24.86		
		4/1/1998	13.83	24.47		
10/5/1998	14.77	23.53				
4/5/1999	15.83	22.47				
10/4/1999	14.37	23.93				
10/2/2000	9.68	28.62				
10/1/2001	8.64	29.66				
10/1/2002	8.23	37.63	29.40			
10/9/2003	7.34		30.29			
10/4/2004	7.75		29.88			
10/10/2005	6.46		31.17			
10/16/2006	6.35	40.33	31.28			
10/8/2007	6.05		34.28			
10/13/2008	6.68		33.65			
10/12/2009	7.60		32.73			
10/11/2010	7.21		33.12			
10/10/2011	6.74		33.59			
10/8/2012	6.93		33.40			
10/14/2013	7.31		33.02			
10/13/2014	6.73		33.60			

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-8B continued	B1 continued	6/26/2015	7.10	40.33	33.23
		10/12/2015	7.72		32.61
		5/26/2016	6.70		33.63
		10/10/2016	7.46		32.87
		10/9/2017	6.71	40.43	33.72
		10/8/2018	6.01		34.42
		10/8/2019	6.26		34.17
		10/12/2020	6.38		34.05
		10/11/2021	6.58		33.85
T-9B	B1	3/12/1986	6.75	37.14	30.39
		3/14/1986	24.45		12.69
		3/17/1986	24.25		12.89
		5/13/1986	8.94		28.20
		7/24/1986	27.67		9.47
		10/2/1987	12.15		24.99
		11/30/1987	19.34		17.80
		2/24/1988	21.99		15.15
		4/12/1988	23.50		13.64
		7/26/1988	24.97		12.17
		10/25/1988	26.65		10.49
		1/10/1989	24.33	37.11	12.78
		4/3/1989	23.66		13.45
		9/14/1989	17.32		19.79
		10/10/1989	21.48		15.63
		1/8/1990	25.75		11.36
		4/6/1990	20.54		16.57
		7/5/1990	18.31		18.80
		10/9/1990	31.99		5.12
		1/8/1991	23.99		13.12
		4/9/1991	22.70		14.41
		7/12/1991	31.91		5.20
		10/7/1991	Dry		NA
		1/6/1992	31.80		5.31
		4/6/1992	30.91		6.20
		7/6/1992	31.47		5.64
		10/5/1992	29.77		7.34
		1/5/1993	29.41		7.70
		4/5/1993	28.91		8.20
		7/6/1993	30.58		6.53
		10/15/1993	26.50		10.61
		1/11/1994	29.42		7.69
		4/4/1994	28.23		8.88
		7/6/1994	20.45		16.66
		10/5/1994	22.64		14.47
		1/10/1995	16.34		20.77
		4/5/1995	13.00		24.11
		7/5/1995	16.40		20.71
		10/9/1995	14.82		22.29
		7/10/1996	16.43		20.68
		10/1/1996	16.98		20.13
		4/1/1997	14.57	37.01	22.44
		10/1/1997	15.82	37.32	21.50
		4/1/1998	13.83		23.49
		10/5/1998	12.62		24.70
		4/5/1999	16.40		20.92
		10/4/1999	14.94		22.38
		10/2/2000	18.41		18.91
		10/1/2001	11.73		25.59
		10/14/2002	11.31		26.01
10/9/2003	10.20		27.12		
10/4/2004	9.68		27.64		
10/10/2005	7.65		29.67		
10/16/2006	7.50	36.19	28.69		
10/8/2007	6.97	38.89	31.92		
10/13/2008	8.87		30.02		
10/12/2009	9.43		29.46		
10/11/2010	8.69		30.20		
10/10/2011	8.14		30.75		
10/8/2012	8.30		30.59		
10/14/2013	8.61		30.28		
10/13/2014	7.91		30.98		
6/26/2015	8.28		30.61		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-9B continued	B1 continued	10/12/2015	8.91	38.89	29.98
		5/26/2016	7.84		30.55
		10/10/2016	8.36		30.53
		1/18/2017	6.15	38.95	32.80
		10/9/2017	7.39		31.56
		10/8/2018	6.79		32.16
Per USEPA approval, well T-9B was destroyed.					
T-10B	B1	10/1/2001	8.81	37.39	28.58
		10/14/2002	8.44		28.95
		10/9/2003	7.41		29.98
		10/4/2004	7.86		29.53
		10/10/2005	6.62		30.77
		10/16/2006	6.56		30.83
		10/8/2007	6.19	40.09	33.90
		10/13/2008	6.81		33.28
		10/12/2009	7.76		32.33
		10/11/2010	4.36		35.73
		10/10/2011	6.82		33.27
		10/8/2012	7.12		32.97
		10/14/2013	7.52		32.57
		10/13/2014	6.81		33.28
		10/14/2015	7.90		32.19
		5/26/2016	6.92		33.17
		10/10/2016	7.63	40.13	32.46
		10/9/2017	6.88		33.25
		10/8/2018	6.19		33.94
		10/8/2019	6.28		33.85
10/12/2020	6.50		33.63		
		10/11/2021	6.76		33.37
T-17B	B1	10/16/2006	6.51	37.91	31.40
		10/12/2009	8.36	40.61	32.25
		10/11/2010	7.80		32.81
		10/10/2011	7.27		33.34
		4/26/2012	6.78		33.83
		10/8/2012	7.20		33.41
		5/20/2013	7.80		32.81
		10/14/2013	7.92		32.69
		4/14/2014	7.42		33.19
		10/13/2014	7.30		33.31
		6/26/2015	7.55		33.06
		10/12/2015	7.97		32.64
		5/26/2016	6.98		33.63
		10/10/2016	8.00		32.61
		10/9/2017	7.22	40.72	33.50
		10/8/2018	6.41		34.31
		10/8/2019	6.48		34.24
10/12/2020	6.90		33.82		
		10/11/2021	6.72		34.00
T-18B	B1	11/13/2012	6.22	38.78	32.56
		5/21/2013	5.93		32.85
		10/14/2013	6.28		32.50
		10/13/2014	6.34		32.44
		10/12/2015	7.13		31.65
		10/10/2016	6.48		32.30
		10/9/2017	5.29	41.41	36.12
		10/8/2018	4.73		36.68
		10/8/2019	4.10		37.31
		10/12/2020	5.10		36.31
		10/11/2021	5.43		35.98
T-19B	B1	11/13/2012	7.35	38.72	31.37
		5/21/2013	6.78		31.94
		10/14/2013	7.20		31.52
		10/13/2014	7.38		31.34
		10/12/2015	8.14		30.58
		10/10/2016	6.59		32.13
		10/9/2017	5.54	41.37	35.83
		10/8/2018	5.33		36.04
		10/8/2019	4.52	41.38	36.86
		10/12/2020	5.24		36.14
		10/11/2021	5.38		36.00
T-20B	B1	10/9/2017	5.26	40.65	35.39
		10/8/2018	4.70		35.95

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-20B continued	B1 continued	10/8/2019	4.82	40.65	35.83
		10/12/2020	4.93		35.72
		10/11/2021	5.12		35.53
T-21B	B1	10/9/2017	7.19	41.53	34.34
		10/8/2018	6.71		34.82
		10/8/2019	6.78		34.75
		10/12/2020	6.85		34.68
		10/11/2021	7.10		34.43
T-22B	B1	10/9/2017	6.63	39.13	32.50
		10/8/2018	5.88		33.25
		10/8/2019	5.93		33.20
		10/12/2020	6.23		32.90
		10/11/2021	6.48		32.65
T-23B	B1	10/9/2017	6.82	39.28	32.46
		10/8/2018	6.10		33.18
		10/8/2019	6.22		33.06
		10/12/2020	6.40		32.88
		10/11/2021	6.70		32.58
T-24B	B1	10/9/2017	7.64	39.19	31.55
		10/8/2018	7.03		32.16
		10/8/2019	7.08		32.11
		10/12/2020	7.64		31.55
		10/11/2021	7.81		31.38
T-25Bs	B1	12/14/2018	5.89	39.12	33.23
		10/8/2019	6.11		33.01
		10/12/2020	6.38		32.74
10/11/2021	6.64	32.48			
T-25Bd	B1	12/14/2018	6.32	38.79	32.47
		10/8/2019	6.84		31.95
		10/12/2020	7.24		31.55
10/11/2021	7.41	31.38			
T-2C	B2	7/24/1986	29.65	39.40	9.75
		10/29/1987	25.15		14.25
		11/30/1987	35.18		4.22
		2/24/1988	34.71		4.69
		4/12/1988	NM		NA
		7/26/1988	35.70		3.70
		10/25/1988	36.86		2.54
		1/10/1989	NM		NA
		4/3/1989	38.92		0.45
		9/14/1989	44.24		-4.87
		10/10/1989	33.84		5.53
		1/8/1990	31.47		7.90
		4/6/1990	40.29		-0.92
		8/3/1990	50.84		-11.47
		11/13/1990	40.05		-0.68
		1/8/1991	29.47	9.90	
		4/9/1991	31.69	7.68	
		7/12/1991	36.12	3.25	
		10/7/1991	47.67	-8.30	
		1/6/1992	47.25	-7.88	
		4/6/1992	42.57	-3.20	
		7/6/1992	46.92	-7.55	
		10/5/1992	42.87	-3.50	
		1/5/1993	39.84	-0.47	
		4/5/1993	37.88	1.49	
		7/6/1993	40.11	-0.74	
		10/15/1993	38.82	0.55	
		1/11/1994	44.54	-5.17	
		4/4/1994	40.30	-0.93	
		7/6/1994	35.63	3.74	
		10/5/1994	31.41	7.96	
		1/10/1995	34.94	4.43	
		4/5/1995	18.21	21.16	
7/5/1995	35.45	3.92			
10/9/1995	31.59	7.78			
7/10/1996	31.00	8.37			
10/1/1996	31.00	8.37			
4/1/1997	33.65	5.72			
10/1/1997	29.50	10.01			
4/1/1998	19.25	20.26			
10/5/1998	15.45	24.06			
				39.37	
				39.51	

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-2C continued	B2 continued	4/5/1999	31.50	39.51	8.01
		10/4/1999	25.18		14.33
		10/2/2000	18.40		21.11
		10/1/2001	17.50		22.01
		10/14/2002	13.91	38.68	24.77
		10/9/2003	11.66		27.02
		10/4/2004	11.01		27.67
		10/10/2005	7.53		31.15
		10/16/2006	6.83		31.85
		10/8/2007	6.39	41.38	34.99
		10/13/2008	11.58		29.80
		10/12/2009	10.56		30.82
		10/11/2010	9.69		31.69
		10/10/2011	8.36		33.02
		10/8/2012	8.75		32.63
		10/14/2013	8.98		32.40
		4/14/2014	8.62		32.76
9/24/2014	7.50		33.88		
10/14/2014	8.71		32.67		
Per USEPA approval, well T-2C was destroyed.					
T-9C	B3	1/15/1986	7.20	36.68	29.48
		4/21/1986	10.50		26.18
		5/13/1986	9.83		26.85
		7/24/1986	11.21		25.47
		10/2/1987	17.16		19.52
		11/30/1987	18.33		18.35
		2/24/1988	17.76		18.92
		4/12/1988	19.35		17.33
		7/26/1988	18.85		17.83
		10/25/1988	20.32		16.36
		1/10/1989	21.29	36.67	15.38
		4/3/1989	22.11		14.56
		8/23/1989	22.74		13.93
		10/10/1989	21.99		14.68
		1/8/1990	22.51		14.16
		4/6/1990	23.09		13.58
		8/3/1990	23.39		13.28
		11/13/1990	23.97		12.70
		1/8/1991	23.58		13.09
		4/9/1991	23.16		13.51
		7/12/1991	23.60		13.07
		10/7/1991	25.07		11.60
		1/6/1992	23.55		13.12
		4/6/1992	21.37		15.30
		7/6/1992	21.73		14.94
		10/5/1992	19.03		17.64
		1/5/1993	22.95		13.72
		4/5/1993	22.00		14.67
		7/6/1993	23.42		13.25
		10/15/1993	23.70		12.97
		1/11/1994	24.99		11.68
		4/4/1994	23.61		13.06
		7/6/1994	22.57		14.10
		10/5/1994	18.96		17.71
1/10/1995	20.94		15.73		
4/5/1995	18.23		18.44		
7/5/1995	20.42		16.25		
10/9/1995	18.43		18.24		
7/10/1996	20.37		16.30		
10/1/1996	22.10		14.57		
4/1/1997	15.69	36.57	20.88		
10/1/1997	17.15	36.11	18.96		
4/1/1998	13.16		22.95		
10/5/1998	14.83		21.28		
4/5/1999	18.44		17.67		
10/4/1999	12.70		23.41		
10/2/2000	17.64		18.47		
10/1/2001	15.28		20.83		
10/14/2002	12.98		23.13		
10/9/2003	11.41		24.70		
10/4/2004	10.45		25.66		
10/10/2005	7.88		28.23		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-9C continued	B3 continued	10/16/2006	6.78	36.11	29.33
		10/8/2007	6.13	38.81	32.68
		10/13/2008	11.13		27.68
		10/12/2009	9.74		29.07
		10/11/2010	9.40		29.41
		10/10/2011	7.99		30.82
		10/8/2012	8.33		30.48
		10/14/2013	8.54		30.27
		10/13/2014	8.21		30.60
		10/12/2015	9.22		29.59
		10/10/2016	8.20		30.61
		10/9/2017	6.74	38.82	32.08
		10/8/2018	5.90		32.92
		10/8/2019	6.20		32.62
		10/12/2020	6.93		31.89
		10/11/2021	7.32		31.50
T-10C	B2	7/24/1986	11.73	37.51	25.78
		10/2/1987	18.55		18.96
		11/30/1987	19.36		18.15
		2/24/1988	18.77		18.74
		4/12/1988	20.65		16.86
		7/26/1988	20.12		17.39
		10/25/1988	22.05		15.46
		1/10/1989	23.02	37.50	14.48
		4/3/1989	23.73		13.77
		9/14/1989	24.12		13.38
		10/10/1989	23.23		14.27
		1/8/1990	23.84		13.66
		4/6/1990	24.89		12.61
		8/3/1990	25.22		12.28
		11/13/1990	26.41		11.09
		1/8/1991	25.88		11.62
		4/9/1991	25.66		11.84
		7/12/1991	26.24		11.26
		10/7/1991	27.91		9.59
		1/6/1992	26.42		11.08
		4/6/1992	24.30		13.20
		7/6/1992	24.26		13.24
		10/5/1992	20.87		16.63
		1/5/1993	23.85		13.65
		4/5/1993	25.46		12.04
		7/6/1993	27.00		10.50
		10/15/1993	26.97		10.53
		1/11/1994	28.65		8.85
		4/4/1994	27.26		10.24
		7/6/1994	26.20		11.30
		10/5/1994	21.24		16.26
		1/10/1995	25.02		12.48
		4/5/1995	21.76		15.74
		7/5/1995	24.49		13.01
		10/9/1995	19.80		17.70
		7/10/1996	24.20		13.30
		10/1/1996	25.72		11.78
		4/1/1997	20.63	37.66	17.03
		10/1/1997	19.91	37.06	17.15
		4/1/1998	15.66		21.40
		10/5/1998	17.39		19.67
		4/5/1999	22.70		14.36
		10/4/1999	13.59		23.47
		10/2/2000	21.20		15.86
		10/1/2001	16.35		20.71
10/14/2002	15.15		21.91		
10/9/2003	14.03		23.03		
10/4/2004	13.24		23.82		
10/10/2005	8.29		28.77		
10/16/2006	7.44		29.62		
10/8/2007	6.91	39.76	32.85		
10/13/2008	14.53		25.23		
10/12/2009	12.62		27.14		
10/11/2010	11.69		28.07		
10/10/2011	9.92		29.84		
10/8/2012	10.45		29.31		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-10C continued	B2 continued	10/14/2013	11.03	39.76	28.73
		10/13/2014	10.16		29.60
		6/26/2015	9.60		30.16
		10/12/2015	10.57		29.19
		5/26/2016	9.48	39.05	29.57
		10/10/2016	9.27		30.49
		10/9/2017	8.12		30.93
		10/8/2018	7.21	39.46	32.25
		10/8/2019	7.67		31.79
		10/12/2020	8.60		30.86
		10/11/2021	8.51		30.95
T-11C	B2	7/24/1986	10.89	36.60	25.71
		10/2/1987	17.28		19.32
		11/30/1987	18.28		18.32
		2/24/1988	17.78		18.82
		4/12/1988	19.12		17.48
		7/26/1988	18.64		17.96
		10/25/1988	19.78		16.82
		1/10/1989	20.83		15.77
		4/3/1989	21.74		14.86
		9/14/1989	22.62		13.98
		10/10/1989	21.82		14.78
		1/8/1990	22.28		14.32
		4/6/1990	NM		NA
		8/3/1990	23.03		13.57
		11/13/1990	22.30		14.30
		1/8/1991	22.84		13.76
		4/9/1991	22.30		14.30
		7/12/1991	22.91		13.69
		10/7/1991	24.19		12.41
		1/6/1992	22.71		13.89
		4/6/1992	20.38		16.22
		7/6/1992	NM		NA
		10/5/1992	18.66		17.94
		1/5/1993	22.33		14.27
		4/5/1993	20.82		15.78
		7/6/1993	22.15		14.45
		10/15/1993	22.23		14.37
		1/11/1994	23.86		12.74
		4/4/1994	22.44		14.16
		7/6/1994	21.60		15.00
		10/5/1994	18.58		18.02
		1/10/1995	19.86		16.74
		4/5/1995	17.12		19.48
		7/5/1995	19.72		16.88
		10/9/1995	17.92		18.68
		7/10/1996	19.95		16.65
		10/1/1996	21.46		15.14
		4/1/1997	17.55	36.49	18.94
		10/1/1997	16.81	35.95	19.14
		4/1/1998	13.18		22.77
		10/5/1998	14.34		21.61
		4/5/1999	17.92		18.03
		10/4/1999	12.94		23.01
10/2/2000	16.96		18.99		
10/1/2001	14.33		21.62		
10/14/2002	12.87		23.08		
10/9/2003	11.18		24.77		
10/4/2004	10.30		25.65		
10/10/2005	7.49		28.46		
10/16/2006	6.77		29.18		
10/8/2007	6.34	38.65	32.31		
10/13/2008	10.83		27.82		
10/12/2009	9.41		29.24		
10/11/2010	9.31		29.34		
10/10/2011	7.95		30.70		
10/8/2012	8.25		30.40		
10/14/2013	8.45		30.20		
10/13/2014	8.03		30.62		
10/12/2015	9.07		29.58		
10/10/2016	7.78		30.87		
10/9/2017	6.61	38.78	32.17		

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation (feet, MSL)	Elevation (feet, MSL)
T-11C continued	B2 continued	10/8/2018	5.88	38.78	32.90
		10/8/2019	6.01	38.77	32.76
		10/12/2020	6.75		32.02
		10/11/2021	8.13		30.64
T-12C	B2	9/14/1989	24.42	38.62	14.20
		1/8/1990	23.48		15.14
		4/6/1990	24.48		14.14
		8/3/1990	24.23		14.39
		11/13/1990	23.47		15.15
		1/8/1991	23.97		14.65
		4/9/1991	23.82		14.80
		7/12/1991	24.12		14.50
		10/7/1991	25.31		13.31
		1/6/1992	23.65		14.97
		4/6/1992	21.11		17.51
		7/6/1992	21.69		16.93
		10/5/1992	20.15		18.47
		1/5/1993	22.46		16.16
		4/5/1993	21.41		17.21
		7/6/1993	22.08		16.54
		10/15/1993	22.40		16.22
		1/11/1994	24.12		14.50
		4/4/1994	22.63		15.99
		7/6/1994	21.71		16.91
		10/5/1994	18.91		19.71
		1/10/1995	20.17		18.45
		4/5/1995	16.14		22.48
		7/5/1995	19.81		18.81
		10/9/1995	18.00		20.62
		7/10/1996	19.90		18.72
		10/1/1996	21.61		17.01
		4/1/1997	17.60	38.56	20.96
		10/1/1997	16.84	38.04	21.20
		4/1/1998	13.45		24.59
		10/5/1998	14.12		23.92
		4/5/1999	17.66		20.38
		10/4/1999	13.77		24.27
		10/2/2000	16.23		21.81
		10/1/2001	14.35		23.69
		10/14/2002	12.39		25.65
		10/9/2003	10.11		27.93
		10/4/2004	9.42		28.62
		10/10/2005	6.92		31.12
		10/16/2006	6.24		31.80
10/8/2007	5.91	40.74	34.83		
10/13/2008	9.70		31.04		
10/12/2009	8.83		31.91		
10/11/2010	8.36		32.38		
10/10/2011	7.16		33.58		
10/8/2012	7.43		33.31		
10/14/2013	7.68		33.06		
10/13/2014	7.54		33.20		
10/12/2015	8.57		32.17		
10/10/2016	7.31		33.43		
10/9/2017	5.99	40.84	34.85		
10/8/2018	5.19		35.65		
10/8/2019	5.28		35.56		
10/12/2020	6.00		34.84		
10/11/2021	6.34		34.50		
36-DD	B2	1/15/1986	8.10	39.37	31.27
		3/12/1986	6.53		32.84
		3/14/1986	6.56		32.81
		4/21/1986	8.10		31.27
		5/13/1986	8.11		31.26
		7/24/1986	8.23		31.14
		10/2/1987	10.21		29.16
		11/30/1987	11.08		28.29
		2/24/1988	10.94		28.43
		4/12/1988	11.52		27.85
		7/26/1988	11.79		27.58
		10/25/1988	12.36		27.01
		1/10/1989	12.82	39.20	26.38

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing	Water-Level
			(feet BTOC)	Elevation	Elevation
			(feet, MSL)	(feet, MSL)	(feet, MSL)
36-DD continued	B2 continued	4/3/1989	13.18	39.20	26.02
		8/23/1989	14.14		25.06
		10/10/1989	13.25		25.95
		1/8/1990	14.06		25.14
		4/6/1990	14.75		24.45
		8/3/1990	14.30		24.90
		10/9/1990	14.46		24.74
		1/8/1991	16.12		23.08
		4/9/1991	14.69		24.51
		7/12/1991	15.59		23.61
		10/7/1991	15.80		23.40
		1/6/1992	15.03		24.17
		4/6/1992	10.95		28.25
		7/6/1992	13.40		25.80
		10/5/1992	12.50		26.70
		1/5/1993	13.19		26.01
		4/5/1993	10.88		28.32
		7/6/1993	11.47		27.73
		10/15/1993	12.46		26.74
		1/11/1994	12.83		26.37
		4/4/1994	12.58		26.62
		7/6/1994	12.80		26.40
		10/5/1994	10.75		28.45
		1/10/1995	8.69		30.51
		4/5/1995	8.46		30.74
		7/5/1995	10.08	29.12	
		10/9/1995	9.52	29.68	
		7/10/1996	10.19	29.01	
		10/1/1996	10.56	28.64	
		4/1/1997	8.89	30.31	
		10/1/1997	9.62	38.74	29.12
		4/1/1998	7.87		30.87
		10/5/1998	8.75		29.99
		4/5/1999	8.72		30.02
		10/4/1999	8.75		29.99
		10/2/2000	9.40		29.34
		10/1/2001	8.91		29.83
		10/14/2002	8.64		30.10
		10/9/2003	7.03		31.71
		10/4/2004	7.07		31.67
		10/10/2005	5.92	32.82	
10/16/2006	5.76	32.98			
10/8/2007	5.45	41.58	36.13		
10/13/2008	6.76		34.82		
10/12/2009	6.85		34.73		
10/11/2010	6.55		35.03		
10/10/2011	5.72		35.86		
10/8/2012	5.91		35.67		
10/14/2013	6.05		35.53		
10/13/2014	6.20		35.38		
10/12/2015	7.11		34.47		
10/10/2016	6.51		35.07		
10/9/2017	5.22	41.52	36.30		
10/8/2018	4.74		36.78		
10/8/2019	4.81		36.71		
10/12/2020	4.72		36.80		
10/11/2021	5.41		36.11		
T-8D	B4	1/15/1986	7.50	38.29	30.79
		4/23/1986	8.10		30.19
		5/13/1986	8.03		30.26
		7/24/1986	9.34		28.95
		10/2/1987	14.55		23.74
		11/30/1987	14.48		23.81
		2/24/1988	13.46		24.83
		4/12/1988	14.27		24.02
		7/26/1988	15.03		23.26
		10/25/1988	17.18		21.11
		1/10/1989	17.15	38.28	21.13
		4/3/1989	18.27		20.01
		9/14/1989	14.97		23.31
		10/10/1989	18.26		20.02
		1/8/1990	18.57		19.71

Appendix C
Historical Water-Level Elevation Measurements
Former TRW Microwave Facility
825 Stewart Drive, Sunnyvale, California



Well Number	Zone	Date Measured	Depth to Water	Top of Casing Elevation	Water-Level Elevation
			(feet BTOC)	(feet, MSL)	(feet, MSL)
T-8D continued	B4 continued	4/6/1990	17.85	38.28	20.43
		7/5/1990	17.97		20.31
		10/9/1990	16.78		21.50
		1/8/1991	17.53		20.75
		4/9/1991	16.07		22.21
		7/9/1991	17.15		21.13
		10/7/1991	17.83		20.45
		1/6/1992	16.94		21.34
		4/6/1992	14.25		24.03
		7/6/1992	15.02		23.26
		10/5/1992	12.97		25.31
		1/5/1993	17.02		21.26
		4/5/1993	14.35		23.93
		7/6/1993	14.32		23.96
		10/15/1993	16.87		21.41
		1/11/1994	15.31		22.97
		4/4/1994	14.42		23.86
		7/6/1994	14.54		23.74
		10/5/1994	12.40		25.88
		1/10/1995	12.06		26.22
		4/5/1995	9.88	28.40	
		7/5/1995	11.26	27.02	
		10/9/1995	10.69	27.59	
		7/10/1996	10.49	27.79	
		10/1/1996	11.31	26.97	
		4/1/1997	7.11	38.19	31.08
		10/1/1997	7.83	37.65	29.82
		4/1/1998	3.83		33.82
		10/5/1998	5.32		32.33
		4/5/1999	5.43		32.22
		10/4/1999	4.75		32.90
		10/2/2000	8.17		29.48
		10/1/2001	5.90		31.75
		10/14/2002	5.89		31.76
		10/9/2003	NM		NA
		10/4/2004	3.77		33.88
		10/10/2005	1.54		36.11
		10/16/2006	1.10		36.55
		10/8/2007	0.45		39.90
		10/13/2008	3.20		37.15
10/12/2009	4.01		36.34		
10/11/2010	3.14		37.21		
10/10/2011	1.49		38.86		
10/8/2012	1.81		38.54		
10/14/2013	2.57		37.78		
10/13/2014	3.54		36.81		
10/12/2015	4.70		35.65		
10/10/2016	2.96		37.39		
10/9/2017	1.63		38.83		
10/8/2018	0.02		40.44		
10/8/2019	0.40		40.06		
10/12/2020	1.42		39.04		
10/11/2021	2.63		37.83		

Notes:

Wells resurveyed as needed after work that changes top of casing elevation.
Elevations in NGVD29 prior to 2007. From 2007, elevations in NAVD88.

- MSL Mean Sea Level
- NM Well not measured due to inaccessibility.
- NA Not Applicable
- + = Measurements taken by Advanced Micro Devices, Inc. (AMD).
- * = Data from October 2010 groundwater sampling event used

Appendix D – Historical Groundwater Analytical Results



Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Drinking Water Standard																						
T-1A		Aug-83	ND<1.0	660	--	--	--	ND	4	ND<1.0	ND<1.0	--	--	--	ND<1.0	100	150	NE	--	--	--	--
		Sep-83	7	1,000	--	--	--	--	5	ND	ND<1.0	--	--	--	ND	--	--	--	--	--	--	--
		Mar-84	--	680	--	--	--	--	3	ND	ND<1.0	--	--	--	ND	--	--	--	--	--	--	--
		Aug-84	5	950	--	--	360	ND	7	ND	ND	--	--	--	ND	--	--	--	--	--	--	--
		Nov-84	4	930	--	--	--	--	5	--	--	--	--	--	--	--	--	--	--	--	--	--
		Oct-85	10	640	--	--	--	ND<5.0	30	ND<5.0	ND<5.0	ND<5.0	--	--	--	ND<5.0	--	--	--	--	--	--
		Jan-86	ND<5.0	630	--	--	490	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--	--	--	--	--	--
		Apr-86	ND<2.0	340	--	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	ND<2.0	--	--	--	--	--	--
		Jul-86	ND<1.0	140	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	ND<1.0	--	--	--	--	--	--
		Sep-86	ND<2.0	420	--	--	--	ND<2.0	5	ND<2.0	ND<2.0	ND<2.0	--	--	--	ND<2.0	--	--	--	--	--	--
		Jan-87	ND<1.0	140	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	ND<1.0	--	--	--	--	--	--
		Apr-87	ND<2.5	160	--	--	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	ND<2.5	--	--	--	--	--	--
		Jun-87	ND<1.0	190	--	--	--	ND<1.0	7.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	ND<1.0	--	--	--	--	--	--
		Oct-87	ND<2.5	160	--	--	--	ND<2.5	8.6	ND<2.5	ND<2.5	ND<2.5	--	--	--	ND<2.5	--	--	--	--	--	--
		Jan-88	ND<1.0	200	--	--	--	ND<1.0	3.1	ND<1.0	1.5	--	--	--	--	9.1	--	--	--	--	--	--
		Jun-88	ND<0.5	56	--	--	--	ND<0.5	1.5	ND<0.5	ND<0.5	--	--	--	--	10	--	--	--	--	--	--
		Aug-88	ND<1.0	60	--	--	67	ND<1.0	0.9	ND<1.0	ND<1.0	--	--	--	--	ND<1.0	--	--	--	--	--	--
		Nov-88	ND<0.5	88	--	--	--	ND<0.5	0.5	ND<0.5	2.7	--	--	--	--	ND<0.5	--	--	--	--	--	--
		Feb-89	ND<0.5	86	--	--	--	ND<0.5	ND<0.5	ND<0.5	1.3	--	--	--	--	ND<0.5	--	--	--	--	--	--
		Aug-89	ND<0.5	87	--	--	--	ND<0.5	ND<0.5	ND<0.5	0.9	--	--	--	--	ND<0.5	--	--	--	--	--	--
		Oct-89	ND<0.5	90	--	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<0.5	--	--	--	--	--	--
		Apr-90	ND<0.5	110	--	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-93	ND<5.0	120	--	--	--	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--
		Oct-94	ND<5.0	74	--	--	ND<5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--
		Oct-95	ND<1.0	61	--	--	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--
		Oct-96	ND<0.5	48	3.6	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-97	ND<1.0	51	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<2.0	ND	--	--	--
	Oct-98	ND<1.0	42	2.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	
	Oct-99	ND<1.0	34	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	
	Oct-00	ND<2.0	34	--	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	
	Oct-01	ND<0.5	28	--	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	
	Oct-02	ND<0.5	35	--	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	
Per RWQCB approval, well T-1A was abandoned in February 2004.																						
T-2A		Aug-83	86,000	6,100,000	--	--	ND<5.0	ND<5.0	130	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	ND<5.0	--	--	--	--	
		Sep-83	4,000	730,000	--	--	2,000	--	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
		Mar-84	--	13,000	--	--	3,000	--	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
		Aug-84	8,600	190,000	--	--	21,000	300	ND	600	ND	--	--	--	ND	ND	ND	ND	--	--	--	--
		Nov-84	5,400	520,000	--	--	17,000	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
		Oct-85	4,600	12,000	--	--	15,000	ND<50	ND<50	ND<50	ND<50	--	--	--	--	ND<50	ND	ND<50	--	--	--	--
		Mar-86	ND<100	9,800	--	--	2,500	ND<100	ND<100	ND<100	ND<100	--	--	--	--	ND	ND<100	--	--	--	--	--
		Apr-86	3,700	15,000	--	--	13,000	650	ND<100	ND<100	ND<100	--	--	--	--	ND	ND<100	--	--	--	--	--
		Apr-86	1,700	10,000	--	--	30,000	740	ND<100	ND<100	ND<100	--	--	--	--	ND<100	ND	ND<100	--	--	--	--
		Jul-86	980	6,400	--	--	5,400	540	ND<50	ND<50	ND<50	--	--	--	--	ND<50	ND	650	--	--	--	--
		Jan-87	380	2,900	--	--	5,500	ND<50	ND<50	ND<50	ND<50	--	--	--	--	ND<50	ND	610	--	--	--	--
		Oct-87	190	980	--	--	330	40	7.5	ND<5.0	ND<5.0	--	--	--	--	ND<5.0	ND	46	--	--	--	--
		Jun-88	610	4,000	--	--	4,200	4,600	ND<50	ND<50	ND<50	--	--	--	--	ND<50	ND	ND<50	--	--	--	--
		Jun-88	530	3,200	--	--	3,100	4,000	1.6	1.4	--	--	--	--	--	ND<5.0	ND	32	--	--	--	--
		Aug-88	250	1,400	--	--	5,700	11,000	ND<100	ND<100	ND<100	--	--	--	--	ND<100	ND	ND<100	--	--	--	--
		Nov-88	260	1,300	--	--	4,200	18,000	ND<100	ND<100	ND<100	--	--	--	--	ND<100	ND	ND<100	--	--	--	--
		Nov-88	ND<10	1,300	--	--	3,800	3,600	ND<10	ND<10	ND<10	--	--	--	--	ND<10	ND	ND<10	--	--	--	--
		Feb-89	220	620	--	--	240	ND<10	ND<10	ND<10	ND<10	--	--	--	--	380	ND	ND<10	--	--	--	--
		May-89	140	470	--	--	500	340	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	ND<5.0	ND	ND<5.0	--	--	--	--
		Aug-89	41	2,300	--	--	30	ND<10	ND<10	ND<10	ND<10	--	--	--	--	18	ND	ND<10	--	--	--	--
		Oct-89	84	230	--	--	23	220	ND<1.0	3	ND<1.0	--	--	--	--	ND<1.0	ND	79	--	--	--	--
		Apr-90	40	160	--	--	12	7.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--
		Jul-90	40	100	--	--	40	3.3	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	3.4	ND	--	--	--
		Apr-91	12	120	--	--	50	ND<1	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--
		Jan-92	0.8	42	--	--	6.1	4.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Apr-92	30	4,400	--	--	410	120	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--
		Oct-92	10	640	--	--	650	80	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	--	ND	2.1	ND	--	--	--
	Apr-93	18	1,300	--	--	1,710	14	ND<0.5	13	ND<0.5	ND	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	
	Oct-93	16	5,800	--	--	4,732	300	ND<5.0	49	ND<5.0	ND	ND	ND	ND	ND<5.0	ND	23	ND	--	--	--	
	Feb-94	6.3	1,900	--	--	2,723	260	ND<0.5	32	1.1	ND	ND	ND	ND	1.9	ND	9.6	ND	--	--	--	
	Apr-94	3.9	1,600	--	--	2,216	120	ND<0.5	21	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	2.2	ND	--	--	--	
	Oct-94	ND<25	320	--	--	530	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Total 1,2-DCE (µg/L)	VC (µg/L)	1,1,1-TCA (µg/L)	1,1-DCE (µg/L)	1,1-DCA (µg/L)	CDM (µg/L)	Freon 11 (µg/L)	Freon 12 (µg/L)	Freon 113 (µg/L)	BFM (µg/L)	1,2-DCB (µg/L)	CBN (µg/L)	BEN (µg/L)	EBN (µg/L)	TOL (µg/L)	XYL (µg/L)		
Drinking Water Standard			5	5	6	10	6	0.5	200	6	5	100	150	NE	1200	100	600	70	1	300	150	1750		
T-3A (continued)		Oct-94	ND<5.0	170	--	--	130	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--		
		Oct-95	2.9	180	--	--	121.2	ND<2.0	3.1	ND<1.0	1.1	ND	ND	ND	1.9	ND	ND<1.0	ND	--	--	--	--		
		Oct-96	2.0	110	52	0.6	--	--	ND<0.5	0.9	ND<0.5	ND<0.5	ND	ND	ND	0.8	ND	ND<0.5	ND	--	--	--	--	
		Oct-97	ND<5.0	180	100	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND	ND<5.0	ND	ND<1.0	ND	--	--	--	--	
		Oct-98	ND<5.0	140	84	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--	
		Oct-99	2.1	95	78	ND<2.0	--	9	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--	
		Oct-00	ND<10	140	71	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--	
		Oct-01	ND<5.0	130	48	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
		Oct-02	ND<2.0	180	17	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
		Oct-03	ND<5.0	150	43	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
		Oct-04	2.3	130	41	1.7	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<4.0	ND<1.0	ND<1.0	--	--	--	--	
		Oct-05	4.1	180	48	1.3	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
		Oct-06	3.7	230	49	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
		Oct-07	ND<5.0	210	15	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
		Oct-08	ND<2	140	8.0	ND<2	--	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4	ND<2	ND<2	ND<4	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4
		Oct-09	1.7	170	44	2.2	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-10	1.1	120	42	1.4	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-11	1.8	120	38	1.6	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
	Oct-12	ND<1.0	120	38	1.9	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	
	Oct-13	1.9	250	88	2.6	--	ND<1.0	ND<1.0	0.70 J	ND<1.0	ND<1.0	--	ND<2.0	ND<1.0	0.61 J	ND<2.0	ND<1.0	ND<1.0	--	--	--	--		
	Apr-14	1.3	140	51	1.6	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	Sep-14	1.2	130	65	1.3	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--		
Per USEPA approval, well T-3A was abandoned in November 2014.																								
T-6A		Mar-84	--	27	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--		
		Oct-85	ND<0.5	68.5	--	--	10	ND<0.5	12	ND<0.5	ND<0.5	--	--	--	21	ND	ND<0.5	--	--	--	--	--		
		Jan-87	ND<10	52	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	37	ND	ND<10	--	--	--	--	--		
		Jan-88	ND<0.5	21	--	--	1.6	ND<0.5	2.6	ND<0.5	ND<0.5	--	--	--	2.1	ND	ND<0.5	--	--	--	--	--		
		May-88	ND<0.5	13	--	--	1.5	ND<0.5	2.5	ND<0.5	ND<0.5	--	--	--	2.1	ND	ND<0.5	--	--	--	--	--		
		Aug-89	ND<0.5	14	--	--	0.7	ND<0.5	0.6	ND<0.5	ND<0.5	--	--	--	0.7	ND	ND<0.5	--	--	--	--	--		
		Oct-90	ND<0.5	9.0	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--		
		Oct-91	ND<0.5	7.8	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--		
		Oct-92	ND<0.5	5.6	--	--	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--		
		Oct-93	ND<0.5	6.3	--	--	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--		
		Oct-94	ND<5.0	19	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	--	ND	ND<5.0	ND	--	--	--	--		
		Oct-95	ND<1.0	6.5	--	--	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	--	ND	ND<1.0	ND	--	--	--	--		
		Oct-96	ND<0.5	7.6	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	0.8	ND	ND<0.5	ND	--	--	--	--		
		Oct-97	ND<0.5	7.4	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	0.6	ND	ND<1.0	ND	--	--	--	--		
		Oct-98	ND<1.0	9.4	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--		
		Oct-99	ND<1.0	9.4	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--		
		Oct-00	ND<1.0	7.3	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND<1.0	ND	--	--	--	--	
		Oct-01	ND<0.5	9.2	1.7	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	--	
	Oct-02	0.72	9.3	2.7	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--		
	Oct-03	0.61	8.5	2.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--		
	Oct-04	ND<0.5	14	30	0.92	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--		
	Oct-05	ND<0.5	21	28	0.51	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--		
	Oct-06	ND<0.5	24	22	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--		
	Oct-07	ND<0.5	22	17	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	0.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0		
Per RWQCB approval, well T-6A removed from monitoring program in 2009.																								
T-7A		Aug-84	120	6,800	--	--	2,200	ND	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--			
		Nov-84	15	3,100	--	--	1,800	--	22	--	--	--	--	--	--	ND	ND	--	--	--	--	--		
		Oct-85	28	3,800	--	--	4,200	340	87	ND<50	ND<50	--	--	--	--	ND<50	ND	ND<50	--	--	--	--		
		Oct-85	ND<50	3,600	--	--	3,700	ND<50	ND<50	ND<50	ND<50	--	--	--	--	690	ND	ND<50	--	--	--	--		
		Jan-86	ND<25	2,500	--	--	1,400	ND<25	ND<25	ND<25	ND<25	--	--	--	--	--	ND	ND<25	--	--	--	--		
		Apr-86	ND<10	1,400	--	--	ND<10	ND<10	ND<10	1,800	ND<10	--	--	--	--	--	ND<10	ND	ND<10	--	--	--	--	
		Jul-86	ND<25	3,300	--	--	1,900	ND<25	ND<25	ND<25	ND<25	--	--	--	--	ND<25	ND	ND<25	--	--	--	--		
		Sep-86	ND<12	2,200	--	--	1,500	ND<12	ND<12	ND<12	ND<12	--	--	--	--	ND<12	ND	ND<12	--	--	--	--		
		Jan-87	ND<10	3,000	--	--	2,500																	



Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL			
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
T-8A (continued)	Dup	Jul-91	4.6	110	--	--	49	ND<0.5	2	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--			
		Apr-92	8.0	400	--	--	140	ND<2.0	19	ND<2.0	ND<2.0	ND	ND	ND	21	ND	ND<2.0	ND	--	--	--	--			
		Oct-92	7.3	260	--	--	ND<50	2	4	ND<0.5	ND<0.5	ND	ND	ND	--	ND	1	ND	--	--	--	--			
		Apr-93	2.6	160	--	--	110	ND<5.0	4	ND<2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<2.5	ND	--	--	--	--			
		Oct-93	ND<5.0	250	--	--	200	ND<10	7	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--			
		Apr-94	4.9	280	--	--	221	ND<0.5	8	3	ND<0.5	ND<0.5	ND	ND	ND	3	ND	1	ND	--	--	--	--		
		Oct-94	ND<25	300	--	--	330	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--		
		Apr-95	ND<5.0	230	--	--	200	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--		
		Oct-95	4.4	260	--	--	222.5	ND<4.0	4.9	2.1	ND<2.0	ND	ND	ND	4	ND	ND<2.0	ND	--	--	--	--			
		Apr-96	4.0	230	--	--	180	ND<2.5	3	ND<2.5	ND<2.5	ND	ND	ND	ND	ND<2.5	ND	ND<2.5	ND	--	--	--	--		
		Oct-96	2.4	160	160	3.7	--	ND<0.5	2.3	0.8	1.1	ND	ND	ND	1.5	ND	2.2	ND	2.2	ND	--	--	--		
		Apr-97	3.8	200	160	12	--	ND<1.0	2.9	ND<1.0	1.3	ND	ND	ND	2.7	ND	2.2	ND	2.2	ND	--	--	--		
		Oct-97	ND<10	210	170	ND<10	--	ND<10	ND<10	ND<10	ND	ND	ND	ND	ND<10	ND	ND<20	ND<10	ND<10	--	--	--	--		
		Apr-98	ND<5.0	170	110	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND	ND<20	ND	ND<5.0	ND<5.0	--	--	--	--		
		Oct-98	3.0	110	120	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--		
		Apr-99	ND<10	110	70	ND<10	--	ND<10	ND<10	ND<10	ND	ND	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--		
		Oct-99	2.6	130	77	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	ND<2.0	--	--	--	--		
		Oct-00	ND<10	150	64	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	ND<10	ND<10	--	--	--	--	
		Jan-00	ND<10	140	62	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--		
		Jun-01	2.6	150	64	1.4	--	ND<2.0	1.6	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	--	ND<1.0	2.2	ND<2.0	
		Aug-01	5.9	180	72	1.4	--	ND<2.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
		Oct-01	2.8	190	68	1.4	--	ND<2.0	1.5	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	
		Nov-01	ND<5.0	140	62	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND	--	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND<10	
		Jan-02	2.0	170	62	1.5	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	--	ND<1.0	6.8	2.7	
		Mar-02	2.4	140	41	1.3	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	
		Jul-02	ND<1.0	120	44	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	
		Oct-02	2.4	130	54	1.4	--	14	1.2	2.8	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	1.3	ND<1.0	1.2	ND<2.0	
		Jan-03	3.3	140	49	1.2	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	--	ND<1.0	--	ND<1.0	--	--	
		Mar-03	1.9	150	45	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
		Jul-03	2.0	150	41	1.2	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
		Oct-03	ND<5.0	140	48	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	
		Jan-04	ND<5.0	110	33	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	
		Apr-04	3.2	120	45	2.5	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	
		Jul-04	ND<5.0	150	50	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	
		Oct-04	2.8	130	39	2.3	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	ND<1.0	--	--	
		Apr-05	ND<5.0	140	44	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Jul-05	ND<5.0	170	58	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Oct-05	ND<5.0	200	130	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Jan-06	ND<5.0	63	44	ND<5.0	--	5.8	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Apr-06	ND<5.0	86	83	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Jul-06	ND<5.0	210	94	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Oct-06	ND<5.0	57	34	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Jan-07	8.2	180	81	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Apr-07	ND<5.0	170	63	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Oct-07	ND<5.0	59	71	ND<5.0	--	36.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
Oct-08	0.76	84	28	1.1	--	4.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1			
Feb-09	ND<0.50	21	23	1.4	--	9.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0			
Oct-09	0.54	36	33	3.2	--	21	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0			
Apr-10	ND<0.50	43	26	2.1	--	3.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0			
Oct-10	0.99	87	65	2.8	--	4.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0			
Oct-11	1.6	140	69	2.1	--	1.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0			
Apr-12	1.1	110	67	1.1	--	0.88	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0			
Oct-12</																									



Appendix D1 - Historical Groundwater Volatile Organic Compound Results
 Former TRW Microwave Site
 825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL	
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Drinking Water Standard																							
T-13A (continued)	Dup	Oct-12	ND<0.50	1.2	20	2.3	--	17	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		May-13	ND<0.50	3.1	31	4.1	--	16	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		May-18	ND<0.50	2.9	30	3.9	--	16	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	Dup	Oct-13	ND<0.50	1.2	79	8.2	--	38	ND<0.50	ND<0.50	0.59	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Apr-14	ND<0.50	1.8	49	4.4	--	19	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Apr-18	ND<0.50	1.4	50	5.5	--	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	Dup	Oct-14	ND<0.50	1.4	76	4.6	--	33	ND<0.50	ND<0.50	0.56	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		Jun-15	ND<0.50	1.7	80	3.3	--	23	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	Dup	Jun-18	ND<0.50	2.1	96	3.9	--	28	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-15	ND<0.50	23	120	4.0	--	18	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		May-16	ND<0.50	21	71	4.9	--	15	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	Dup	May-18	ND<0.50	21	71	5.0	--	15	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-16	ND<0.50	14	62	2.4	--	17	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-17	ND<0.50	41	81	3.4	--	11	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	Dup	Oct-18	ND<0.50	29	85	2.5	--	28	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-19	0.60	51	70	1.6	--	9.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<2.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-20	0.57 J	57	76	1.9	--	8.5	ND<1.0	0.32 J	0.27 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
			Oct-21	0.67 J	61	29	1.6	--	2.4	ND<1.0	ND<1.0	0.24 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	0.21 J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
	T-14A	Dup	Nov-05	ND<5.0	130	59	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
			Jan-06	ND<5.0	150	63	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
Apr-06			6.8	140	92	8	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
Dup		Oct-06	ND<5.0	200	57	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
		Apr-07	ND<5.0	160	58	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
		Jul-07	ND<5.0	120	51	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
Dup		Oct-07	ND<5.0	54	200	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
		Oct-08	ND<20	ND<20	45	ND<20	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<40	ND<20	ND<20	ND<20	ND<20	1300	ND<40
		Feb-09	ND<0.50	6.2	15	2.0	--	7.8	ND<0.50	ND<0.50	0.59	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.4	2.2	--	--	--	--	--
Dup		Oct-09	ND<0.50	9.0	16	1.9	--	7.4	ND<0.50	ND<0.50	0.53	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.8	1.9	ND<0.50	ND<0.50	0.54	ND<1.0	
		Apr-10	ND<0.50	28	37	2.2	--	9.7	ND<0.50	ND<0.50	0.51	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-10	ND<0.50	36	42	2.4	--	9.0	ND<0.50	ND<0.50	0.60	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
Dup		Oct-11	ND<0.50	28	38	2.8	--	6.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Apr-12	ND<0.50	3.0	42	3.1	--	1.6	ND<0.50	ND<0.50	0.51	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.3	0.86	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-12	ND<0.50	0.96	27	3.8	--	26	ND<0.50	ND<0.50	0.71	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
Dup		May-13	ND<0.50	4.2	33	4.4	--	25	ND<0.50	ND<0.50	0.63	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-13	ND<0.50	2.0	53	6.3	--	35	ND<0.50	0.29 J	0.78	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	0.19 J	--	--	--	--	
		Apr-14	ND<0.50	4.1	43	4.2	--	22	ND<0.50	ND<0.50	0.53	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
Dup		Oct-14	ND<0.50	3.6	62	5.1	--	29	ND<0.50	ND<0.50	0.70	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-15	ND<0.50	23	56	3.9	--	34	ND<0.50	ND<0.50	0.58	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		May-16	ND<0.50	20	40	3.8	--	21	ND<0.50	ND<0.50	0.54	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
Dup	Oct-16	ND<0.50	23	42	3.4	--	23	ND<0.50	ND<0.50	0.56	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
	Oct-17	1	55	55	2.7	--	20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
	Oct-18	ND<0.50	21	65	2.3	--	25	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
Dup	Oct-19	1.0	40	60	2.3	--	24	ND<0.50	ND<0.50	0.46 J	ND<0.50	ND<0.50	ND<1.0	ND<2.0	ND<1.0	2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
	Oct-20	0.76	39	50	1.9	--	20	ND<0.50	0.33 J	0.40 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	1.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
	Oct-21	0.65	29	49	1.9	--	27	ND<0.50	0.31 J	0.42 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	2.2	0.11 J	--	--	--	--		
T-15A	Dup	Nov-05	ND<5.0	8.2	160	ND<5.0	--	37	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Jan-06	ND<5.0	ND<5.0	110	ND<5.0	--	83	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15	
		Apr-06	ND<5.0	51	1																		

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Drinking Water Standard																						
T-23A		Oct-21	0.69	53	16	1.1	--	6.8	ND<0.50	ND<0.50	0.19 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	0.13 J	ND<0.50	--	--	--	--
T-25A		Sep-07	5.5	160	52	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
		Oct-07	ND<5.0	66	160	ND<5.0	--	9.6	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
		Oct-08	1.0	42	38	2.2	--	7.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<1	4.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
		Feb-09	1.3	41	42	2.3	--	9.7	ND<0.50	ND<0.50	0.55	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.3	ND<0.50	--	--	--	--
		Oct-09	ND	26	17	2.0	--	3.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Apr-10	1.0	39	34	2.3	--	6.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.5	ND<0.50	ND<1.0	2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-10	0.8	47	50	2.5	--	7.3	ND<0.50	ND<0.50	0.55	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-11	1.5	63	50	3.0	--	2.1	ND<0.50	0.51	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Apr-12	ND<0.50	1.1	19	2.7	--	7.3	ND<0.50	ND<0.50	0.52	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-12	ND<0.50	0.86	10	3.5	--	12	ND<0.50	ND<0.50	0.71	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		May-13	ND<0.50	1.4	22	3.4	--	22	ND<0.50	ND<0.50	0.65	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-13	ND<0.50	0.57	27	4.7	--	42	ND<0.50	ND<0.50	0.75	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.5	ND<0.50	--	--	--	--
		Apr-14	ND<0.50	0.50	32	4.0	--	35	ND<0.50	ND<0.50	0.59	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-14	ND<0.50	4.0	39	4.1	--	35	ND<0.50	ND<0.50	0.60	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.3	ND<0.50	--	--	--	--
		Jun-15	0.71	25	61	8.8	--	38	ND<0.50	ND<0.50	0.61	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.5	ND<0.50	--	--	--	--
		Oct-15	0.64	27	60	3.1	--	39	ND<0.50	ND<0.50	0.57	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.9	ND<0.50	--	--	--	--
		May-16	0.85	44	46	2.1	--	23	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.8	ND<0.50	--	--	--	--
		Oct-16	1.6	68	43	2.5	--	19	ND<0.50	ND<0.50	0.52	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2	ND<0.50	--	--	--	--
		Oct-17	1.3	57	49	2.0	--	20	ND<0.50	ND<0.50	0.51	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.8	ND<0.50	--	--	--	--
		Oct-18	1.1	51 F1	52	1.5	--	7.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.4	ND<0.50	--	--	--	--
		Oct-19	0.99	44	59	1.8	--	13	ND<0.50	ND<0.50	0.43 J	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	1.9	ND<0.50	--	--	--	--
	Oct-20	1.5	59	57	1.7	--	10	0.14 J	0.42 J	0.37 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	1.9	ND<0.50	--	--	--	--	
	Oct-21	1.6	71	60	1.9	--	4.7	ND<0.50	0.48 J	0.40 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	2.0	ND<0.50	--	--	--	--	
36S		Jun-82	18	710	--	--	ND<10	ND	42	ND<10	ND<10	--	--	--	19	ND	ND	--	--	--	--	
		Aug-82	10	590	--	--	55	ND	19	ND<2.0	ND<2.0	--	--	--	2	ND	ND	--	--	--	--	
		Apr-83	13	400	--	--	23	ND	16	ND	ND	--	--	--	12	ND	ND	--	--	--	--	
		May-83	ND	82	--	--	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
		Aug-83	19	470	--	--	ND<1.0	ND	36	16	ND<1.0	--	--	--	ND<1.0	ND	ND	--	--	--	--	
		Mar-84	--	360	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--
		Aug-84	8	230	--	--	12	ND	23	2	ND	--	--	--	40	ND	ND	--	--	--	--	
		Nov-84	4.7	150	--	--	8.8	--	19	--	--	--	--	--	--	ND	--	--	--	--	--	
		Oct-85	ND<5.0	250	--	--	23	ND<5.0	65	ND<5.0	ND<5.0	--	--	--	90	ND	ND	--	--	--	--	
		Jan-86	11	190	--	--	25	ND<2.0	42	3.4	ND<2.0	--	--	--	ND<2.0	ND	ND<2.0	--	--	--	--	
		Apr-86	3.4	130	--	--	10	ND<0.5	36	3.5	1.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	
		Jul-86	3.3	59	--	--	7.7	ND<0.5	32	3.2	1.6	--	--	--	15	ND	ND<0.5	--	--	--	--	
		Sep-86	5.3	200	--	--	5.75	ND<1.0	27.5	2.9	2.1	--	--	--	16.5	ND	7.95	--	--	--	--	
		Jan-87	ND<10	140	--	--	ND<10	ND<10	34	ND<10	ND<10	--	--	--	28	ND	ND<10	--	--	--	--	
		Apr-87	4	200	--	--	12	ND<2.5	34	6	ND<2.5	--	--	--	19	ND	ND<2.5	--	--	--	--	
		Jun-87	ND<1.0	170	--	--	11	ND<1.0	15	1.6	ND<1.0	--	--	--	8.2	ND	ND<1.0	--	--	--	--	
		Oct-87	3.5	160	--	--	10	ND<1.0	20	2.5	1.7	--	--	--	14	ND	ND<1.0	--	--	--	--	
		Jan-88	5.8	170	--	--	15	ND<1.0	23	3.8	1.3	--	--	--	14	ND	ND<1.0	--	--	--	--	
		May-88	3.9	140	--	--	26	ND<1.0	20	3.3	1.6	--	--	--	13	ND	1.8	--	--	--	--	
		Oct-89	4	130	--	--	13	ND<0.5	5.7	0.8	ND<0.5	--	--	--	2	ND	ND<0.5	--	--	--	--	
		Oct-92	2.1	35	--	--	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-93	ND<2.5	66	--	--	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<2.5	ND<2.5	--	--	--	
		Oct-94	ND<5.0	19	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND<5.0	--	--	--	
		Oct-95	ND<1.0	21	--	--	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND<1.0	--	--	--	
		Oct-96	0.7	25	6.1	3.0	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND<0.5	--	--	
		Oct-97+	ND<0.5	20	16	5.2	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND<0.5	--	--	
		Oct-99	1.2	50	83	4.4	--	ND<1.0	17.0	ND<1.0	ND<1.0	ND	ND	ND	1.0	ND	ND<1.0	ND<1.0	--	--	--	
		Oct-00+	1.3	83	100	5.6	--	ND<1.0	1.6	1.2	0.9	ND	ND	ND	1.8	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-01+	2.1	140	110	2.8	--	ND<0.5	2.5	1.1	1.0	ND	ND	ND	1.8	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-02+	1.8	140	70	1.9	--	ND<0.5	1.7	0.8	0.7	ND	ND	ND	1.2	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-03+	1.7	100	53	1.6	--	ND<0.5	1.1	1.2	0.7	ND	ND	ND	ND<1.0	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-04+	1.8	91	34	1.1	--	ND<0.5	1.1	0.6	0.5	ND	ND	ND	1.9	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-05+	2.1	91	22	0.8	--	ND<1.0	1.1	0.6	ND<0.5	ND	ND	ND	0.6	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-06+	2.6	98	20	0.9	--	ND<0.5	0.9	0.6	ND<0.5	ND	ND	ND	0.8	ND	ND<0.5	ND<0.5	--	--	--	
		Oct-07+	1.5	70	15	0.9	--	ND<0.7	ND<0.7	0.8	ND<0.7	ND	ND	ND	ND<0.7	ND	ND<0.7	ND<0.7	--	--	--	
		Oct-08+	2.4	98	13	0.6	--	ND<0.5	0.7	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--		
		Oct-09+	2.																			

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Drinking Water Standard																						
37S (continued)		Oct-95	ND<1.0	380	--	--	7.1	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	3.8	ND	ND<1.0	ND	--	--	--	--
		Oct-96	1.2	270	6.3	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	2.0	ND	ND<1.0	ND	--	--	--	--
		Oct-97+	ND<2.5	260	12	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<2.5	ND	--	--	--	--
		Oct-99	ND<5.0	180	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
		Oct-00+	1.2	200	9.7	ND<0.5	--	1.8	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	2.1	ND	ND<0.5	ND	--	--	--	--
		Oct-01	ND<5.0	140	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<20	ND	ND<5.0	ND	--	--	--	--
		Oct-02+	0.9	170	3.7	ND<0.7	--	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND	ND	ND	ND<1.4	ND	ND<0.7	ND	--	--	--	--
		Oct-03+	1.3	160	2.9	ND<0.6	--	ND<0.6	ND<0.6	ND<0.6	ND<0.6	ND	ND	ND	ND<1.3	ND	ND<0.6	ND	--	--	--	--
		Oct-04+	1.2	11	3.3	ND<0.7	--	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND	ND	ND	1.9	ND	ND<0.7	ND	--	--	--	--
		Oct-05+	1.0	91	5.2	ND<0.7	--	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND	ND	ND	ND<1.4	ND	ND<0.7	ND	--	--	--	--
		Oct-07+	1.0	81	2.4	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	1.8	ND	ND<0.5	ND<0.5	--	--	--	--
		Oct-08+	1.1	81	3.6	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-09+	1.4	91	2.2	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-10+	0.9	60	3.7	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-11+	0.8 J	63	2.3	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-12+	0.8 J	63	2.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-13+	1.0	95	1.6	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-14+	0.8	83	2.7	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-15+	0.9	49	3.8	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--
		Oct-16+	0.6	43	4.1	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	0.66	--	ND<0.50	--	--	--	--	--
		Oct-17+	5.9	420	4.3	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	6.7	--	ND<5.0	--	--	--	--	--
	Oct-18+	ND<0.50	33	4.6	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	
	Oct-19+	0.59	37	7.0	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	0.55	--	ND<0.50	--	--	--	--	--	
	Oct-20+	0.58	35	4.2	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	0.55	--	ND<0.50	--	--	--	--	--	
	Oct-21+	0.54	40	11	ND<0.50	--	0.76	ND<0.50	ND<0.50	ND<0.50	--	--	--	0.62	--	ND<0.50	--	--	--	--	--	
38-S		Jun-82	ND<10	1,250	--	--	ND<10	ND	ND<10	ND<10	ND<10	--	ND	--	103	ND	ND	--	--	--	--	
		Aug-82	76	40,000	--	--	3100	3	6.4	2	2.6	--	ND	--	ND<1.0	ND	ND	--	--	--	--	
		Aug-82	17	2,200	--	--	300	ND	ND<2.0	ND<2.0	ND<2.0	--	ND	--	35	ND	ND	--	--	--	--	
		May-83	23	2,000	--	--	350	ND	ND	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	
		Sep-83	59	2,700	--	--	970	ND	ND<2.0	ND<4.0	1	--	ND	--	140	ND	ND	--	--	--	--	
		Sep-83	72	6,300	--	--	1700	ND	ND<2.0	4	3	--	ND	--	120	ND	ND	--	--	--	--	
		Mar-84	--	3,500	--	--	--	--	--	--	--	--	ND	--	--	ND	--	--	--	--	--	
		Aug-84	28	1,400	--	--	1100	ND	5	3	ND	--	ND	--	ND	ND	ND	--	--	--	--	
		Nov-84	28	3,200	--	--	510	--	20	--	--	--	ND	--	--	ND	--	--	--	--	--	
		Oct-85	45	3,700	--	--	410	ND<25	33	ND<25	ND<25	--	ND	--	590	ND	ND<25	--	--	--	--	
		Jul-86	ND<5.0	2,800	--	--	200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	250	ND	ND<5.0	--	--	--	--	
		Sep-86	ND<25	4,600	--	--	120	ND<25	ND<25	ND<25	ND<25	--	ND	--	150	ND	ND<25	--	--	--	--	
		Jan-87	ND<10	2,500	--	--	220	ND<10	ND<10	ND<10	ND<10	--	ND	--	180	ND	ND<10	--	--	--	--	
		Apr-87	26	2,700	--	--	420	ND<10	74	ND<10	ND<10	--	ND	--	91	ND	ND<10	--	--	--	--	
		Jun-87	260	2,200	--	--	910	ND<10	13	ND<10	ND<10	--	ND	--	83	ND	ND<10	--	--	--	--	
		Oct-87	ND<25	2,400	--	--	270	ND<25	ND<25	ND<25	ND<25	--	ND	--	100	ND	ND<25	--	--	--	--	
		Jan-88	ND<50	2,900	--	--	240	ND<50	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	
		May-88	ND<25	3,400	--	--	240	ND<25	ND<25	ND<25	ND<25	--	ND	--	95	ND	ND<25	--	--	--	--	
		Oct-84	ND<5.0	910	--	--	190	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	
		Oct-95	ND<10	1,100	--	--	180	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	
		Oct-96	ND<1.7	440	540	4.0	--	ND<1.7	2.7	ND<1.7	ND	ND	ND	ND	2.9	ND	ND<1.7	ND	--	--	--	
		Oct-97+	ND<5.0	160	520	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	
		Oct-99	ND<5.0	270	240	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	
		Oct-00	ND<20	240	240	ND<20	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	--	--	
		Oct-01	ND<5.0	170	120	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	
		Oct-02	2.6	240	200	6.3	--	8.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	3.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	
		Oct-03	ND<1.0	51	110	1.2	--	21	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<4.0	ND<1.0	ND<1.0	ND<1.0	--	--	
		Oct-04	ND<5.0	190	190	ND<5.0	--	6.9	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	
		Oct-05	2.0	140	68	1.5	--	14	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	
		Oct-06	1.5	130	33	ND<1.0	--	5.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	
		Oct-07	1.3	85	50	0.82	--	16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	0.61	ND<1.0	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	
		Oct-08	0.65	50	82	2.4	--	30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	1.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
		Oct-09	1.5	150	120	2.8	--	6.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	1.1	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
		Oct-10	1.3	150	130	1.8	--	5.7	ND<0.50	0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	1.5	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
		Oct-11	ND<2.5	130	140	ND<2.5	--	6.7	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
		Apr-12	ND<0.50	32	120	1.4	--	11	ND<0.50	0.80	ND<0.50	ND<0.50	ND<1.0	ND<1.0	0.80	ND<1.0	ND<0.50	ND				

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Drinking Water Standard																						
			5	5	6	10	6	0.5	200	6	5	100	150	NE	1200	100	600	70	1	300	150	1750
T-1B (continued)		Jul-86	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Sep-86	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Jan-87	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Apr-87	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Jun-87	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Oct-87	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Jan-88	ND<0.5	ND<0.5	--	--	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		May-88	ND<0.5	ND<0.5	--	--	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Aug-88	ND<0.5	ND<0.5	--	--	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Nov-88	ND<0.5	ND<0.5	--	--	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Feb-89	ND<0.5	ND<0.5	--	--	0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		May-89	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Aug-89	ND<0.5	ND<0.5	--	--	0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Oct-89	ND<0.5	ND<0.5	--	--	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
		Jan-90	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Apr-90	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Jul-90	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-90	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Jan-91	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Apr-91	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Jul-91	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-91	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Jan-92	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Apr-92	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-92	ND<0.5	ND<0.5	--	--	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-93	ND<0.5	ND<0.5	--	--	0.7	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-94	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--
		Oct-95	ND<1.0	ND<1.0	--	--	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--
	Oct-96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	
	Oct-97	ND<0.5	ND<0.5	1.3	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND	ND<0.5	ND	ND<1.0	ND	--	--	--	
	Oct-98	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	
	Oct-99	ND<1.0	ND<1.0	1.4	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	
	Oct-00	ND<1.0	ND<1.0	1.5	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND<1.0	--	--	--	
	Oct-01	ND<0.5	ND<0.5	1.4	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	
	Oct-02	ND<0.5	ND<0.5	1.8	0.79	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	
	Oct-18	ND<0.5	ND<0.5	1.7	0.76	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	
Per RWQCB approval, well T-1B was abandoned in February 2004.																						
T-2B		Aug-83	2,800	1,100,000	--	--	160	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	
		Sep-83	2,000	73,000	--	--	2,000	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--
		Sep-83	2,000	290,000	--	--	2,000	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--
		Mar-84	--	130,000	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	--	--	--
		Aug-84	1,500	11,000	--	--	650	ND	ND	ND	ND	--	ND	--	ND	--	ND	ND	--	--	--	--
		Nov-84	2,300	52,000	--	--	7,200	--	ND<130	--	--	--	ND	--	ND	--	ND	--	--	--	--	--
		Oct-85	2,700	7,500	--	--	7,700	ND<50	ND<50	ND<50	ND<50	--	ND	--	840	ND	ND<50	--	--	--	--	--
		Mar-86	1,300	5,500	--	--	3,300	750	ND<25	ND<25	ND<25	--	ND	--	--	ND	ND<25	--	--	--	--	--
		Apr-86	580	4,000	--	--	3,600	180	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
		Jul-86	1,200	3,800	--	--	2,800	1,400	ND<10	ND<10	ND<10	--	ND	--	ND<10	ND	860	--	--	--	--	--
		Jan-87	800	9,100	--	--	7,000	1,100	ND<25	ND<25	ND<25	--	ND	--	ND<25	ND	710	--	--	--	--	--
		Jul-87	490	2,100	--	--	5,400	730	ND<50	ND<50	ND<50	--	ND	--	100	ND	ND<50	--	--	--	--	--
		Oct-87	330	2,000	--	--	3,300	860	59	ND<25	ND<25	--	ND	--	ND<25	ND	71	--	--	--	--	--
		Jan-88	170	1,400	--	--	12,000	4,200	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
		May-88	54	630	--	--	5,800	1,000	12	120	ND<5	--	ND	--	ND<5	ND	ND<5	--	--	--	--	--
		Aug-88	180	970	--	--	7,300	3,800	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	ND<100	--	--	--	--	--
		Nov-88	230	970	--	--	8,700	3,300	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	ND<100	--	--	--	--	--
		Feb-89	ND<500	7,200	--	--	36,000	13,000	ND<500	ND<500	ND<500	--	ND	--	ND<500	ND	ND<500	--	--	--	--	--
		May-89	ND<200	1,400	--	--	34,000	32,000	ND<200	ND<200	ND<200	--	ND	--	ND<200	ND	ND<200	--	--	--	--	--
		Aug-89	ND<2,500	ND<2,500	--	--	48,000	26,000	ND<2,500	ND<2,500	ND<2,500	--	ND	--	--	ND	--	--	--	--	--	--
		Aug-89	ND<500	4,000	--	--	40,000	45,000	ND<500	ND<500	ND<500	--	ND	--	ND<500	ND	ND<500	--	--	--	--	--
		Oct-89	ND<200	7,500	--	--	34,000	44,000	ND<200	ND<200	ND<200	--	ND	--	ND<200	ND	ND<200	--	--	--	--	--
		Jan-90	ND<1,000	17,000	--	--	110,000	30,000	ND<1,000	ND<1,000	ND<1,000	ND	ND	ND	ND<1,000	ND	ND<1,000	ND	--	--	--	--
		Jan-90	ND<500	1,800	--	--	40,000	24,000	ND<500	ND<500	ND<500	ND	ND	ND	ND<500	ND	ND<500	ND	--	--	--	--
		Apr-90	130	13,000	--	--	41,000	13,000	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--
		Apr-90	90	4,200	--	--	11,000	14,000	ND<50	80	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
		Jul-90	ND<200	6,000	--	--	21,000	12,000	ND<200	ND<200	ND<200	ND	ND	ND	ND<200	ND	ND<200	ND	--	--	--	--
		Jul-90	ND<100	3,400	--	--	15,000	3,900	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--
		Oct-90	ND<500	26,000	--	--	53,000	14,000	ND<500	ND<500	ND<500	ND	ND	ND	ND<500	ND	ND<500	ND	--	--	--	--
		Oct-90	ND<200	19,000	--	--	52,000	7,800	ND<200	ND<200	ND<200	ND	ND	ND	ND<200	ND	ND<200	ND	--	--	--	--
		Jan-91	ND<200	2,000	--	--	49,000	6,500	ND<200	ND<200	ND<200	ND	ND	ND	ND<200	ND	ND<200	ND	--	--	--	--
		Jan-91	ND<500	5,200	--	--	22,000	7,000	ND<500	ND<500	ND<500	ND	ND	ND	ND<500	ND	ND<500	ND	--			

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL		
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
T-7B (continued)	Dup	Sep-00	1.6	270	29	ND<1.0	--	ND<2.0	2.5	1.2	ND<1.0	ND	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	ND<2.0	
		Oct-00	ND<1.0	180	24	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND<1.0	ND	ND<1.0	ND<1.0	--	ND<1.0	--	--	--	
		Nov-00	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	ND<2.0
		Dec-00	ND<1.0	1.7	ND<1.0	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	ND<2.0	
		Feb-01	1.2	230	29	ND<1.0	--	ND<2.0	1.4	ND<1.0	ND<1.0	ND	11	14	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
		Apr-01	1.4	200	34	ND<1.0	--	ND<2.0	1.8	1.2	ND<1.0	ND	20	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
		Jun-01	ND<1.0	68	61	ND<1.0	--	3.6	ND<1.0	1.6	ND<1.0	ND	51	24	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
		Aug-01	2.1	340	46	1.3	--	ND<2.0	1.9	2.4	ND<1.0	ND	8.6	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
		Oct-01	ND<5.0	210	25	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	13	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	--	--
		Oct-18	ND<5.0	200	25	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	12	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	--	--
		Jan-02	ND<10	300	29	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	ND<10	ND<10	ND	ND<10	ND<10	--	ND<10	ND<10	--	--
		Apr-02	ND<10	240	24	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	35	ND	ND<10	ND<10	--	ND<10	ND<10	--	--	--
		Jul-02	ND<10	350	34	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	60	ND	ND<10	ND<10	--	ND<10	ND<10	--	--	--
		Oct-02	ND<5.0	170	24	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	55	ND<20	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	--	--
		Oct-18	ND<2.0	160	24	ND<2.0	--	2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	53	ND<8.0	ND<2.0	ND<2.0	--	ND<2.0	ND<2.0	--	--	--
		Apr-03	ND<1.0	140	18	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	2.9	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0
		Oct-03	ND<5.0	190	28	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<10	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
		Oct-18	ND<5.0	190	29	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<10	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
		Oct-04	ND<1.0	140	14	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	2.3	ND<4.0	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	--	--	--
		Oct-18	ND<1.0	140	14	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	2.4	ND<4.0	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	--	--	--
		Oct-05	ND<1.0	95	13	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	1.9	ND<1.0	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	--	--	--
		Oct-18	ND<1.0	88	13	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	1.7	ND<1.0	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	--	--	--
		Oct-06	0.71	80	10	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1.9	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	--	--	--
		Oct-18	0.58	88	10	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1.8	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	--	--	--
		Oct-07	1.80	190	16	0.63	--	ND<0.5	0.92	0.65	0.55	ND<0.5	ND<1.0	ND<0.5	6.6	ND<0.5	3.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
		Oct-18	1.70	200	16	0.62	--	ND<0.5	0.92	0.65	0.57	ND<0.5	ND<1.0	ND<0.5	6.4	ND<0.5	3.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
		Oct-08	ND<2	180	9.4	ND<2	--	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4	ND<2	5.7	ND<4	3.0	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4
		Oct-18	ND<2	150	7.6	ND<2	--	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4	ND<2	4.8	ND<4	2.3	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4
		Oct-09	0.79	150	10	ND<0.50	--	0.63	0.52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	3.1	ND<1.0	1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-18	0.77	140	9.8	ND<0.50	--	0.60	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	2.8	ND<1.0	1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-10	ND<1.0	130	12	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	2.7	ND<2.0	1.8	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-18	ND<1.0	140	13	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	2.9	ND<2.0	2.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-11	1.1	170	14	0.57	--	0.82	0.56	0.55	0.5	ND<0.50	ND<1.0	ND<0.50	4	ND<1.0	2.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-18	1.0	180	14	0.57	--	0.81	0.58	0.58	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4	ND<1.0	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
		Oct-12	0.55/0.70	160/170	15	0.75/0.79	--	ND<0.5	0.52/0.55	0.61/0.60	0.51/0.52	ND<0.5	ND<1.0	ND<0.5	3.2/3.6	ND<1.0	1.6/2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
		Oct-13	0.86	150	10	0.77	--	0.38 J	0.58	0.73	0.55	ND<1.0	ND<1.0	ND<0.50	4.3	ND<1.0	2.2	ND<0.50	--	ND<0.50	--	--	--	--
		Oct-18	0.85	150	11	0.76	--	0.39 J	0.59	0.70	0.56	ND<1.0	ND<1.0	ND<0.50	4.3	ND<1.0	2.1	ND<0.50	--	ND<0.50	--	--	--	--
		Oct-14	0.74	170	11	0.78	--	ND<0.50	ND<0.50	0.61	ND<0.50	ND<0.50	ND<0.50	ND<1.0	3.2	ND<1.0	2.1	ND<0.50	--	ND<0.50	--	--	--	--
		Oct-18	0.84	170	12	0.97	--	ND<0.50	0.51	0.74	0.57	ND<0.50	ND<1.0	ND<0.50	4.4	ND<1.0	2.4	ND<0.50	--	ND<0.50	--	--	--	--
		Jun-15	0.54	140	10	0.64	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	2.6	ND<1.0	1.1	ND<0.50	--	ND<0.50	--	--	--	--
Jun-18	0.63	150	9.8	0.66	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	2.8	ND<1.0	1.3	ND<0.50	--	ND<0.50	--	--	--	--		
Oct-15	ND<0.50	72	4.8	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.81	ND<1.0	ND<0.50	ND<0.50	--	ND<0.50	--	--	--	--		
Oct-18	ND<0.50	73	4.8	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.81	ND<1.0	ND<0.50	ND<0.50	--	ND<0.50	--	--	--	--		
Oct-16	ND<0.50	21	1	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	ND<0.50	--	--	--	--		
Oct-18	ND<0.50	21	1	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	ND<0.50	--	--	--	--		
May-17	0.54	160	11	0.97	--	ND<0.50	ND<0.50	0.54	ND<0.50	--	ND<1.0	ND<0.50	3.2	ND<1.0	1.6	ND<0.50	--	ND<0.50	--	--	--	--		
May-18	0.62	180	12	1.1	--	ND<0.50	ND<0.50	0.53	ND<0.50	--	ND<1.0	ND<0.50	3.4	ND<1.0	1.8	ND<0.50	--	ND<0.50	--	--	--	--		
Oct-17	ND<5.0	190	9.7	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<1.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	--	ND<5.0	--	--	--	--		
Oct-17	0.64	190	12	1.1	--	ND<0.50	ND<0.50	0.57	ND<0.50	--	ND<1.0	ND<0.50	4.1	ND<1.0	2.0	ND<0.50	--	ND<0.50	--	--	--	--		
Oct-18	ND<0.5																							

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL	
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
T-9B (continued)		Jan-88	50	4,800	--	--	70	ND<10	10	ND<10	ND<10	--	ND	--	180	ND	ND<10	--	--	--	--	--	
		Jan-88	ND<100	12,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	ND<100	--	--	--	--	--	
		May-88	360	12,000	--	--	710	120	180	ND<100	ND<100	--	ND	--	1,700	ND	ND<100	--	--	--	--	--	
		Aug-88	ND<50	6,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--	
		Aug-88	36	5,200	--	--	85	18	13	4.7	1.5	--	ND	--	170	ND	8	--	--	--	--	--	
		Nov-88	50	6,900	--	--	ND<50	ND<50	80	ND<50	ND<50	--	ND	--	310	ND	ND<50	--	--	--	--	--	
		Feb-89	ND<25	6,400	--	--	45	ND<25	ND<25	ND<25	ND<25	--	ND	--	200	ND	ND<25	--	--	--	--	--	
		Jun-89	39	3,500	--	--	130	73	ND<10	ND<10	ND<10	--	ND	--	150	ND	ND<10	--	--	--	--	--	
		Aug-89	61	7,300	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	200	ND	ND<50	--	--	--	--	--	
		Oct-89	38	3,800	--	--	160	20	ND<10	ND<10	ND<10	--	ND	--	50	ND	ND<10	--	--	--	--	--	
		Jan-90	61	6,100	--	--	120	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	
		Jul-90	30	5,200	--	--	420	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	
		Oct-90	ND<20	3,900	--	--	590	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	
		Jan-91	10	2,200	--	--	580	30	ND<10	10	ND<10	ND	ND	ND	20	ND	ND<10	ND	--	--	--	--	
		Apr-91	ND<20	2,100	--	--	1,200	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	
		Jul-91	ND<20	3,100	--	--	1,100	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	
		Oct-91	ND<20	3,200	--	--	340	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	
		Jan-92	ND<30	4,100	--	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND	ND	ND	ND	ND<30	ND	ND<30	ND	--	--	--	
		Apr-92	ND<50	5,600	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	
		Oct-92	36	5,100	--	--	ND<500	19	3.9	ND<0.5	3.4	ND	ND	ND	--	ND	6.1	ND	--	--	--	--	
		Apr-93	ND<50	3,200	--	--	75	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	69	ND	ND<50	ND	--	--	--	--	
		Oct-93	14	1,900	--	--	99	35	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	51	ND	ND<5.0	ND	--	--	--	--	
		Apr-94	22	1,300	--	--	110	55	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	28	ND	5.0	ND	--	--	--	--	
		Oct-94	ND<25	1,200	--	--	120	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	
		Apr-95	ND<20	1,300	--	--	110	ND<40	ND<20	ND<20	ND<20	ND	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	
		Oct-95	11	1,100	--	--	190	22	ND<10	ND<10	ND<10	ND	ND	ND	12	ND	ND<10	ND	--	--	--	--	
		Apr-96	19	1,000	--	--	120	15	ND<2.5	ND<2.5	ND<2.5	ND	ND	ND	9.3	ND	6.1	ND	--	--	--	--	
		Oct-96	12	1,200	110	ND<5.0	--	25	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	13	ND	ND<5.0	ND	--	--	--	--	
		Apr-97	15	1,300	130	ND<6.3	--	33	ND<6.3	ND<6.3	ND<6.3	ND	ND	ND	26	ND	8.1	ND	--	--	--	--	
		Oct-97	ND<50	1,600	150	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	
		Apr-98	ND<100	2,200	130	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND	ND<400	ND	ND<600	ND	--	--	--	
		Oct-98	ND<100	2,000	ND<100	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND	ND<400	ND	ND<100	ND	--	--	--	
		Apr-98	ND<25	1,000	130	ND<25	--	37	ND<25	ND<25	ND<25	ND	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	
		Oct-98	ND<100	1,200	170	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	
		Apr-99	ND<100	1,100	160	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	
		Oct-99	ND<25	1,000	170	ND<25	--	46	ND<25	ND<25	ND<25	ND	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	
		Oct-00	ND<70	1,000	200	ND<70	--	ND<70	ND<70	ND<70	ND<70	ND<70	ND	ND	ND	ND<70	ND	ND<70	ND	--	--	--	
		Aug-00	ND<10	460	160	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	ND<10	ND<10	--	ND	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
		Oct-00	ND<10	780	150	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<40	ND<40	ND<10	ND<10	--	--	--	
		Jan-02	ND<10	680	270	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	
		Apr-02	ND<5.0	510	210	ND<5.0	--	5.3	ND<5.0	ND<5.0	ND<5.0	ND	ND<10	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	--	--	--	
		Jul-02	ND<5.0	460	190	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<10	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	--	--	--	
		Oct-02	3.4	460	180	3.7	--	8.7	ND<2.5	2.8	ND<2.5	ND<2.5	ND<5.0	ND<5.0	5.3	ND<10	ND<2.5	ND<2.5	ND<2.5	--	--	--	
		Apr-03	2.0	550	240	3.6	--	19	1.7	4.3	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0	
		Oct-03	ND<5.0	390	560	7.8	--	38	ND<5.0	6.4	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	Oct-04	ND<5.0	470	300	5.1	--	33	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
	Oct-05	ND<5.0	16	630	5.9	--	150	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
	Oct-06	ND<0.5	4.6	31	1.4	--	30	ND<0.5	ND<0.5	0.51	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	0.61	ND<0.5	--	--	--	--		
	Oct-07	4.4	470	190	3.2	--	9.8	ND<0.5	2.2	0.83	ND<0.5	ND<1.0	ND<1.0	8.4	ND<1.0	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5		
	Oct-08	ND<5	280	110	ND<5	--	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	7.9	ND<10	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10		
	Oct-09	ND<10	31	290	ND<10	--	69	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20		
	Oct-10	0.87	96	250	3.4	--	12	ND<0.50	1.7	0.76	ND<0.50	ND<1.0	ND<0.50	1.0	ND<1.0	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
	Oct-11	ND<5.0	110	350	ND<5.0	--	5.1	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10		
	Oct-12	ND<5.0	130	360	5.1	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<10	ND<10	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10		
	Oct-13	2.2 J	410	280	5.0	--	3.6 J	ND<5.0	3.3 J	ND<5.0	--	ND<10	ND<5.0	1.5 J	ND<10	ND<5.0	ND<5.0	ND<5.0	--	--	--		
	Oct-14	ND<5.0	390	210	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	--	--	--		
	Jun-15	2.2	310	220	3.3	--	2.3	ND<0.50	2.1	0.59	ND<0.50	ND<1.0	ND<0.50	1.0	ND<1.0	0.82	ND<0.50	--	--	--	--		
	Oct-15	ND<2.5	150	150	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	--	--	--		
	May-16	1.5	270	240	3.2</																		



Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL		
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
T-21B (continued)		Oct-20	ND<2.5	350	270	2.0 J	--	ND<2.5	ND<2.5	1.4 J	ND<2.5	ND<2.5	ND<5.0	ND<5.0	14	ND<5.0	ND<2.5	ND<2.5	--	--	--	--		
		Oct-21	ND<5.0	410	260	1.7 J	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	14	ND<10	ND<5.0	ND<5.0	--	--	--	--		
		Oct-17	1.6	97	130	3.3	--	0.56	ND<0.50	0.83	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	--	--	--	--		
		Oct-18	1.3	79	120	3.1	--	0.69	ND<0.50	0.95	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
		Oct-19	1.6	82	170	3.7	--	0.72	ND<0.50	0.89	0.45 J	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--	
T-22B		Oct-20	1.4	76	140	3.6	--	ND<1.0	ND<1.0	0.78 J	0.38 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--		
		Oct-21	1.5	78	140	3.2	--	0.52	ND<0.50	0.91	0.36 J	ND<0.50	ND<1.0	ND<1.0	0.17 J	ND<1.0	ND<2.0	ND<2.0	--	--	--	--		
		Oct-17	1.3	86	100	2.7	--	0.64	ND<0.50	0.77	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	--	--	--	--		
		Oct-18	1.7	95	140	3.0	--	0.61	ND<0.50	0.89	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	--	--	--	--		
		Oct-19	1.2	62	160	3.3	--	2.8	ND<0.50	0.67	0.43 J	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
T-23B		Oct-20	1.5	76	140	3.2	--	0.76 J	ND<1.0	0.81 J	0.36 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<2.0	ND<1.0	ND<2.0	--	--	--	--		
		Oct-21	1.2 J	70	120	2.7	--	ND<2.0	ND<2.0	0.75 J	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	--	--	--	--		
		Oct-17	ND<0.50	63	130	1.4	--	4.0	ND<0.50	1.5	0.60	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--		
		Oct-18	ND<0.50	48	100	1.1	--	3.9	ND<0.50	1.6	0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
		Oct-19	ND<0.50	3.5	130	1.3	--	15	ND<0.50	0.43 J	0.51	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
T-24B		Oct-20	ND<1.0	36	94	0.96 J	--	2.9	ND<1.0	1.0	0.46 J	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--		
		Oct-21	ND<0.50	7.8	49	0.63	--	ND<0.50	ND<0.50	0.36 J	0.24 J	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<1.0	0.14 J	ND<0.50	--	--	--	--		
		Dec-18	ND<5.0	350	270	6.6	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
		Oct-19	ND<2.5	15	400	5.8	--	70	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	ND<10	ND<5.0	1.4 J	ND<2.5	--	--	--	--	
		Oct-20	ND<2.0	2.4	200	4.9	--	200	ND<2.0	ND<2.0	0.64 J	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	ND<2.0	0.82 J	ND<2.0	--	--	--	--	
T-25Bs		Oct-21	ND<5.0	11	400	5.2	--	42	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
		Dec-18	8.2	450	77	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	5.1	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
		Oct-19	5.3	300	61	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	ND<10	ND<5.0	2.5	ND<2.5	--	--	--	--	
		Oct-20	6.2	320	74	1.2 J	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	3.6 J	ND<10	ND<10	2.4 J	ND<5.0	--	--	--	--	
		Oct-21	3.4	170	9.9	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
T-25Bd		Dec-18	8.2	450	77	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	5.1	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0		
		Oct-19	5.3	300	61	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	ND<10	ND<5.0	2.5	ND<2.5	--	--	--	--	
		Oct-20	6.2	320	74	1.2 J	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	3.6 J	ND<10	ND<10	2.4 J	ND<5.0	--	--	--	--	
		Oct-21	3.4	170	9.9	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
		Aug-84	10	2300	--	--	12	ND	ND	6	ND	--	ND	ND	1000	ND	ND	ND	ND	--	--	--	--	
T-2C	Dup	Aug-84	7.2	760	--	--	2.5	--	ND<0.1	ND<0.1	--	--	ND	ND	39	ND	--	--	--	--	--	--		
		Nov-84	8.4	4400	--	--	13	--	ND<1.0	--	--	--	ND	ND	--	ND	--	--	--	--	--	--		
		Oct-85	ND<25	4200	--	--	31	ND<25	ND<25	ND<25	ND<25	--	ND	ND	950	ND	ND<25	--	--	--	--	--		
		Mar-86	ND<25	5500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	--	ND	ND<25	--	--	--	--	--		
		Mar-86	49	4200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	--	ND	ND<25	--	--	--	--	--		
		Apr-86	ND<2.0	1200	--	--	ND<2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND	ND	ND<2.0	ND	ND<2.0	--	--	--	--	--		
		Jul-86	ND<10	2000	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	ND	650	ND	ND<10	--	--	--	--	--		
		Jan-87	ND<10	3300	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	ND	170	ND	ND<10	--	--	--	--	--		
		Jul-87	ND<25	4200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	220	ND	ND<25	--	--	--	--	--		
		Oct-87	ND<25	3500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	240	ND	ND<25	--	--	--	--	--		
		Jan-88	ND<100	4400	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	ND	ND<100	ND	ND<100	--	--	--	--	--		
		Jun-88	ND<10	5500	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	ND	330	ND	ND<10	--	--	--	--	--		
		Aug-88	ND<25	3400	--	--	ND<25	ND<25	36	ND<25	ND<25	--	ND	ND	400	ND	ND<25	--	--	--	--	--		
		Nov-88	65	3000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	ND	440	ND	ND<50	--	--	--	--	--		
		Feb-89	ND<25	3100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	220	ND	ND<25	--	--	--	--	--		
		May-89	ND<25	3900	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	270	ND	ND<25	--	--	--	--	--		
		May-89	ND<25	3500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	230	ND	ND<25	--	--	--	--	--		
		Aug-89	ND<25	4300	--	--	ND<25	ND<25	25	ND<25	ND<25	--	ND	ND	420	ND	ND<25	--	--	--	--	--		
		Oct-89	ND<20	3300	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	--	ND	ND	180	ND	ND<20	--	--	--	--	--		
		Jan-90	ND<20	3600	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	390	ND	ND<20	ND	--	--	--	--		
		Apr-90	ND<20	4900	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	370	ND	ND<20	ND	--	--	--	--		
		Jul-90	ND<20	3300	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	240	ND	ND<20	ND	--	--	--	--		
		Oct-90	ND<20	2100	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	90	ND	ND<20	ND	--	--	--	--		
		Jan-91	ND<20	4000	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	220	ND	ND<20	ND	--	--	--	--		
		Apr-91	ND<20	2400	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	50	ND	ND<20	ND	--	--	--	--		
		Jul-91	ND<20	3900	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	210	ND	ND<20	ND	--	--	--	--		
		Oct-91	ND<20	4700	--	--	120	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	200	ND	ND<20	ND	--	--	--	--		
		Jan-92	ND<30	5200	--	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND												

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL					
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)			
T-10C (continued)	Drinking Water Standard	Oct-13	ND<10	1100	58	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	170	ND<20	ND<10	ND<10	--	--	--	--					
		Oct-14	ND<10	1300	76	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	170	ND<20	ND<10	ND<10	--	--	--	--					
		Jun-15	ND<0.50	690	1500	14	--	ND<25	ND<25	ND<0.50	9.9	ND<0.50	ND<0.50	ND<1.0	20	190	ND<1.0	ND<0.50	ND<0.50	--	--	--	--				
		Oct-15	ND<25	32	1600	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	32	ND<50	ND<25	ND<25	--	--	--	--				
		May-16	ND<10	71	980	ND<10	--	19	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	95	ND<20	ND<10	ND<10	--	--	--	--				
		Oct-16	ND<10	ND<10	730	ND<10	--	41	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	90	ND<20	ND<10	ND<10	--	--	--	--				
		Oct-17	ND<25	740	650	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	140	ND<50	ND<25	ND<25	--	--	--	--				
		Oct-18	ND<25	260	890	ND<25	--	38	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	140	ND<50	ND<25	ND<25	--	--	--	--				
		Oct-19	ND<5.0	390	680	7.1	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	90	ND<10	ND<5.0	ND<5.0	--	--	--	--				
		Oct-20	ND<5.0	420	680	8.1	--	8.3	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	11	140	ND<10	ND<5.0	ND<5.0	--	--	--	--				
		Oct-21	ND<5.0	240	290	3.1 J	--	ND<5.0	ND<5.0	ND<5.0	2.1 J	ND<5.0	ND<5.0	ND<10	4.3 J	55	ND<10	ND<5.0	ND<5.0	--	--	--	--				
		T-11C	Dup	Jul-86	ND<1.0	1,800	--	--	ND<1.0	ND<1.0	9.7	3.2	ND<1.0	--	ND	--	710	ND	ND<1.0	--	--	--	--	--			
				Jul-86	ND<25	4,600	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	2,000	ND	ND<25	--	--	--	--	--		
				Sep-86	62	3,100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	660	ND	ND<25	--	--	--	--	--	--	
				Jan-87	ND<10	2,200	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	260	ND	ND<10	--	--	--	--	--	--	
				Apr-87	11	1,600	--	--	87	ND<10	ND<10	12	ND<10	ND<10	--	ND	--	210	ND	ND<10	--	--	--	--	--	--	--
				Jun-87	ND<10	2,900	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	230	ND	ND<10	--	--	--	--	--	--	--
Oct-87	ND<10			1,900	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	140	ND	ND<10	--	--	--	--	--	--	--		
Jan-88	ND<25			2,200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	430	ND	ND<25	--	--	--	--	--	--	--		
May-88	ND<5.0			1,100	--	--	40	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	120	ND	ND<5.0	--	--	--	--	--	--	--		
Aug-88	ND<25			1,800	--	--	87	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	230	ND	ND<25	--	--	--	--	--	--	--		
Nov-88	ND<10			740	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	100	ND	ND<10	--	--	--	--	--	--	--		
Feb-89	ND<25			780	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	42	ND	ND<25	--	--	--	--	--	--	--		
May-89	ND<2.5			560	--	--	23	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND	--	49	ND	ND<2.5	--	--	--	--	--	--	--		
Aug-89	ND<2.0			680	--	--	72	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND	--	47	ND	ND<2.0	--	--	--	--	--	--	--		
Oct-89	ND<1.0			500	--	--	40	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND	--	70	ND	ND<1.0	--	--	--	--	--	--	--		
Jan-90	ND<2.0			410	--	--	5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	15	ND	ND<2.0	ND	--	--	--	--	--	--		
Apr-90	ND<5.0			570	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	13	ND	ND<5.0	ND	--	--	--	--	--	--		
Jul-90	ND<5.0			330	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	7.0	ND	ND<5.0	ND	--	--	--	--	--	--		
Oct-90	ND<2.0			330	--	--	16	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	16	ND	ND<2.0	ND	--	--	--	--	--	--		
Jan-91	ND<2.0			290	--	--	4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	10	ND	ND<2.0	ND	--	--	--	--	--	--		
Apr-91	ND<2.0			270	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	18	ND	ND<2.0	ND	--	--	--	--	--	--		
Jul-91	ND<2.0			800	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	42	ND	ND<2.0	ND	--	--	--	--	--	--		
Oct-91	ND<5.0			960	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	28	ND	ND<5.0	ND	--	--	--	--	--	--		
Jan-92	ND<5.0			1,000	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	67	ND	ND<5.0	ND	--	--	--	--	--	--		
Apr-92	ND<10			1,500	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--	--	--		
Oct-92	ND<0.5			150	--	--	9.3	ND<1.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--	--	--		
Oct-93	ND<0.5			210	--	--	2.3	ND<1.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	7.5	ND	ND<0.5	ND	--	--	--	--	--	--		
Oct-94	ND<5.0			110	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--	--	--		
Oct-95	ND<1.0			54	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	2.1	ND	ND<1.0	ND	--	--	--	--	--	--		
Oct-96	ND<0.5			37	ND<0.5	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	1.0	ND	ND<0.5	ND	--	--	--	--	--	--		
Oct-97	ND<1.0			36	2.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<2.0	ND	--	--	--	--	--	--		
Oct-98	ND<10			270	ND<10	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--	--	--		
Oct-98	ND<2.0			160	ND<2.0	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	4.4	ND	ND<2.0	ND	--	--	--	--	--	--		
Oct-99	ND<5.0			290	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--	--	--		
Oct-00	ND<30			320	ND<30	ND<30	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND	ND	ND	ND<30	ND	ND<30	ND<30	--	--	--	--	--	--		
Oct-01	ND<5.0			300	5.7	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	10	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--	--		
Oct-02	ND<2.5			63	2.6	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	ND<2.5	ND<10	ND<2.5	ND<2.5	--	--	--	--	--	--		
Oct-03	ND<0.5			17	0.53	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--	--		
Oct-04	ND<0.5			27	1.2	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--	--		
Oct-05	ND<0.5			28	1.6	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--		
Oct-06	ND<2.5			330	22	ND<2.5	--	11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	13	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	--	--		
Oct-07	ND<2.5			290	20	ND<2.5	--	11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	14	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0		
Oct-08	ND<0.5			18	1.2	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	0.60	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0		
Oct-09	ND<0.50			1.7	3.9	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
Oct-10	ND<0.50			250	16	ND<0.50	--	3.7	ND<0.50	1.1	ND<0.50	ND<0.50	ND<1.0	ND<0.50	5.5	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		
Oct-11	ND<2.5			310	22	ND<2.5	--	6.4	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	16	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<1.0		
Oct-12	ND<2.5			290	26	ND<2.5	--	5.2	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	17	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0		
Oct-13	ND<2.5	460	35	0.68 J	--	4.8	ND<2.5	2.4 J	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	22	ND<5.0	ND<2.5	ND<2.5	ND<2.5	--	--	--	--	--				
Oct-14	ND<2.5	310	23	ND<2.5	--	3.6	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	15	ND<5.0	ND<2.5	ND<2.5	ND<2.5	--	--	--	--	--	--				
Oct-15	ND<0.50	43	3.3	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50																			

Appendix D1 - Historical Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well/Sample Number	Duplicate Collected	Sample Dates	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE	VC	1,1,1-TCA	1,1-DCE	1,1-DCA	CDM	Freon 11	Freon 12	Freon 113	BFM	1,2-DCB	CBN	BEN	EBN	TOL	XYL			
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
Drinking Water Standard																									
36DD (continued)		Oct-04+	ND<0.5	0.5	31	2.2	--	4.5	ND<0.5	ND<0.5	0.5	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--			
		Oct-05+	ND<0.5	ND<0.5	73	2.5	--	12	ND<0.5	0.5	0.7	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--			
		Oct-06+	ND<0.5	0.8	22	1.2	--	6.2	ND<0.5	ND<0.5	0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	ND<0.5	ND<0.5	--	--	--		
		Oct-07+	ND<0.5	1.5	22	0.8	--	3.6	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	ND<0.5	ND<0.5	--	--	--		
		Oct-08+	ND<0.5	1.6	24	1.1	--	1.6	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--		
		Oct-09+	ND<0.5	1.3	35	1.8	--	2.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-10+	ND<0.5	ND<0.5	14	0.7	--	2.2	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-11+	ND<0.5	2.6	10	1.9	--	5.5	--	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-12+	ND<0.5	3.2	24	1.8	--	3.3	--	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-13+	ND<0.5	ND<0.5	11	0.9	--	1.3	--	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-14+	ND<0.5	ND<0.5	7.1	1.0	--	ND<0.5	--	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-15+	ND<0.5	ND<0.5	5.7	1.1	--	1.7	--	ND<0.5	ND<0.5	--	--	--	ND<0.2	--	ND<0.5	--	--	--	--	--	--	--	
		Oct-16+	ND<0.50	ND<0.50	1.8	1.4	--	7.3	--	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--	--	
		Oct-18+	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Oct-19+	ND<0.50	1.0	12	1.1	--	1.7	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--	--	--
		Oct-20+	ND<0.50	0.86	16	3.6	--	0.5	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--	--	--
		Oct-21+	ND<0.50	2.0	16	2.9	--	1.6	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--	--	--
	T-9C		Jan-85	ND<0.5	ND<0.5	--	--	ND<0.5	--	ND<0.5	--	--	--	--	--	ND<0.5	ND	--	--	--	--	--	--	--	
			Oct-85	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--	--	
			Jan-86	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ND	ND<0.5	--	--	--	--	--	--	
			Apr-86	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--	--	--
		Jul-86	ND<0.5	9.2	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	32	ND	ND<0.5	--	--	--	--	--	--	--	
		Jan-88	ND<5.0	330	--	--	ND<5.0	ND<5.0	7.5	ND<5.0	ND<5.0	--	--	--	280	ND	ND<5.0	--	--	--	--	--	--	--	
		May-88	ND<2.5	470	--	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	160	ND	ND<2.5	--	--	--	--	--	--	--	
		Aug-89	ND<1.0	190	--	--	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	33	ND	ND<1.0	--	--	--	--	--	--	--	
		Oct-90	ND<0.5	81	--	--	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	9.0	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-90	ND<0.5	73	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	9.8	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-91	ND<0.5	51	--	--	1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	18	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-92	ND<0.5	8	--	--	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-93	ND<0.5	66	--	--	13	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	4.9	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-94	ND<0.5	12	--	--	2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-95	ND<1.0	8.6	--	--	1.8	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--	--	--	
		Oct-96	ND<0.5	25	3.8	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--	--	--	
		Oct-97	ND<0.5	2.9	0.9	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<1.0	ND	--	--	--	--	--	--	
		Oct-98	ND<1.0	2.4	ND<1.0	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--	--	--	
		Oct-99	ND<1.0	4.0	1.7	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--	--	--	
		Oct-99	ND<1.0	3.9	1.9	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--	--	--	
		Oct-00	ND<3.0	66	43	ND<3.0	--	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND	ND	ND<3.0	ND	ND<3.0	ND	--	--	--	--	--	--	
		Oct-01	ND<5.0	94	65	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
		Oct-02	ND<0.5	3.1	2.4	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
		Oct-03	ND<2.5	83	59	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	
		Oct-04	ND<0.5	6.1	2.9	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
		Oct-05	ND<0.5	1.7	1.4	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
		Oct-06	ND<0.5	0.88	0.54	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
		Oct-07	ND<0.5	88	36	1.4	--	1.6	ND<0.5	1.7	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<0.5	1.1	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	
		Oct-08	ND<0.5	43	17	0.6	--	0.66	ND<0.5	0.82	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	
		Oct-09	ND<0.50	78	57	2.2	--	2.8	ND<0.50	1.7	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	0.63	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-10	ND<0.50	0.98	2.1	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-11	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-12	ND<0.50	5	3.7	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-13	ND<0.50	ND<0.50	0.36 J	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-14	ND<0.50	ND<0.50	0.54	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
		Oct-15	ND<0.50	0.52	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50</														

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
Zone A Aquifer Wells									
36D	Nov-99	21.4	--	--	--	151	--	--	--
	Apr-03	--	--	--	--	-263	--	--	--
	Apr-04	21.0	--	--	--	-299	--	--	--
38-S	Oct-08	21.5	--	--	--	17	--	--	--
	Oct-09	20.25	--	--	--	149	--	--	--
	Oct-10	22.01	6.93	9.507	1.5	44.0	--	--	--
	Oct-11	21.80	6.92	1.366	1.2	140.6	--	--	--
	Apr-12	18.96	6.94	1.26	--	-139	--	--	1.1
	Oct-12	22.57	6.69	1.265	5.30	-19.1	--	--	<1.0
	May-13	22.8	7.01	1.286	32.8	-75	--	--	1.3
	Oct-13	21.4	6.65	1.435	3	5.8	--	--	<1
	Oct-14	21.7	6.98	1.251	5	-40.1	--	--	1.8
	Oct-15	23.2	6.91	1.237	--	39	--	--	0.57 J
	Oct-16	22.3	6.87	1.271	--	-26	--	--	2.3
	Oct-17	23.2	6.98	1333	10.00	105.6	--	--	0.58 J
	Oct-18	21.2	7.08	1.441	2	61.9	--	--	--
	Oct-19	23.28	7.11	1.544	14.9	58.9	--	--	--
	Oct-20	22	6.72	1.439	5	116.7	--	--	--
	Oct-21	22.1	7.02	1.318	1	-38.9	--	--	--
T-7A	Oct-99	20.5	--	--	--	202	1.65	500	2.3
	Jun-01	18.9	--	--	--	197	3.00	410	<5.0
	Apr-04	18.9	--	--	--	151	--	--	--
	Jan-07	18.2	6.25	1.67	--	168	--	--	--
	May-07	21.1	--	--	--	85	--	--	--
	Oct-07	21.3	7.34	0.162	202	--	--	--	--
	Oct-08	21.9	--	--	--	237	--	--	--
	Oct-09	21.40	7.01	1.7	30.8	115	--	--	--
	Oct-10	20.81	6.88	4.9	0.0	170.0	--	--	--
	Oct-11	20.54	6.91	1.535	0.0	222.0	--	--	--
	Oct-12	20.88	7.01	1.472	0.0	69.1	--	--	<1.0
	Oct-13	22.5	6.6	1.38	1	50.2	--	--	--
	Oct-14	21.7	7	1.301	1	68.1	--	--	--
	Jun-15	22.8	6.89	1.372	--	-12.2	--	--	--
	Oct-15	25.17	6.86	1.418	--	30	--	--	--
	Oct-16	22.5	6.9	1.347	--	-45.3	--	--	--
	Oct-17	23.5	6.93	1.416	1	194.6	--	--	--
	Oct-18	25.2	7.06	1.613	1	31.1	--	--	--
	Oct-19	22.3	6.94	1.468	3	95.3	--	--	--
	Oct-20	24.2	6.97	1.476	3	29.2	--	--	--
	Oct-21	23.1	6.89	1.427	10	98	--	--	--
EDUCTOR	Nov-99	21.3	7.02	1.46	0	200	0.96	470	<2.0
	Jan-01	24.4	7.01	1.45	4	-73	--	--	--
	Mar-01	18.9	7.06	1.46	20	-300	--	--	--
	Jun-01	19.6	6.93	1.44	0	-162	3.20	590	10
	Aug-01	21.0	4.92	4.17	22	-125	56,000	1,000	5,900
	Oct-01	21.2	4.85	5.22	147	-20	4,000	690	24,000
	Nov-01	19.5	--	--	--	-66	3,000	2,300	8,000
	Jan-02	19.0	--	--	--	-37	2,100	770	21,000
	Mar-02	19.7	--	--	--	-32	480	3,300	5,900
	Jul-02	19.2	--	--	--	-160	2,800	2,900	1,800
	Oct-02	19.6	5.69	5.52	1	4.7	120	6,200	3,700
	Jan-03	18.9	--	--	--	-77	--	2,200	2,800
	Apr-03	18.7	--	--	--	-400	--	2,200	1,700
	Jul-03	19.0	6.32	1.44	11	-87	--	6,200	8,000
	Oct-03	20.1	--	--	--	-236	--	2,100	200
	Jan-04	18.8	--	--	--	-260	--	1,200	16
	Apr-04	19.0	6.45	3.09	33	-247	--	1,600	46
	Oct-04	20.7	--	--	--	-220	--	1,800	25
	Jan-05	19.2	--	--	--	-239	--	--	14
	Apr-05	18.9	--	--	--	-178	--	--	55
	Jul-05	19.9	--	--	--	-115	--	--	61
	Sep-05	20.7	--	--	--	--	--	--	--
	Oct-05	20.5	--	--	--	-211	--	--	26
	Jan-06	19.8	--	--	--	-144	--	--	330
	Apr-06	19.3	--	--	--	-254	--	--	26
	Oct-06	20.5	--	--	--	-162	--	--	15
	Apr-07	19.3	6.43	0.232	51.2	-133	--	--	18
	Oct-07	20.0	--	--	--	-151	--	--	18
	Oct-08	20.5	--	--	--	-220	--	--	--
	Oct-09	20.68	--	--	--	-136	--	--	6.2
	Mar-10 ^(a)	19.79	6.25	2.47	362	-292	--	900	570
	Oct-10 ^(b)	18.94	7.24	2.213	391.4	-124.4	--	--	160.0
	Oct-10 ^(c)	19.81	5.99	4.413	7.1	-82.8	--	960	280.0
	Mar-11	--	--	--	--	--	--	2,700	3,600
	May-11	--	5.57	--	--	-67.0	--	2,200	3,200
	Oct-11	20.40	5.48	3.806	4.0	-81.7	--	1,400	280
	Apr-12	18.45	5.24	3.813	--	-26.6	--	--	2,200
	Oct-12	20.22	5.43	3.668	9.00	-19	--	--	49
	May-13	20.26	5.49	3.478	9.4	-15.9	--	--	1,800
	Oct-13	19.9	4.91	2.306	7	11.3	--	--	1,390
Apr-14	18.8	5.59	1.616	9	-24	--	--	634	
Sep-14	20.4	5.62	2.46	0	14	--	--	--	
T-2A	Nov-99	21.0	6.77	1.49	0	181	22.8	500	4.1
	Jan-01	19.0	6.11	1.91	25	-324	190	840	410
	Mar-01	18.3	6.39	2.33	105	-221	580	820	150
	Jun-01	19.7	6.71	2.21	9	-121	12	1,900	1,600
	Aug-01	21.1	6.24	2.78	1	-127	29	330	410
	Oct-01	20.9	6.27	2.8	19	-103	15	1,700	460
	Nov-01	19.8	6.62	2.43	67	-85	11	1,200	1,100
	Jan-02	--	--	--	--	--	--	--	--
	Apr-02	19.3	6.53	3.13	48	-150	5.2	2,400	490
	Jul-02	19.2	6.40	4.227	--	-150	27	2,000	360
Oct-02	19.6	6.48	3.79	53	-112	8	2,700	840	

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-2A (continued)	Jan-03	18.6	6.82	2.68	5	-122	--	1,700	45
	Apr-03	18.9	6.65	2.39	0	-387	--	1,200	28
	Jul-03	19.2	7.11	2.51	35	-129	--	1,600	17
	Oct-03	20.2	6.79	2.53	21	-118	--	1,400	13
	Jan-04	19.3	6.32	2.33	0	-242	--	1,100	12
	Apr-04	19.3	6.54	2.37	7	-213	--	1,400	17
	Oct-04	20.7	6.51	2.82	--	-116	--	1,500	16
	Jan-05	19.2	6.74	2.58	16	-199	--	--	7.0
	Apr-05	19.1	6.67	2.2	235	-99	--	--	32
	Jul-05	20.2	6.41	2.62	--	-139	--	--	24
	Oct-05	20.7	7.06	2.03	410	-199	--	--	--
	Jan-06	20.0	6.78	0.257	13	-175	--	--	--
	Apr-06	19.5	6.86	1.82	580	-101	--	--	--
	Oct-06	19.6	7.72	2.12	202	-155	--	--	--
	Apr-07	19.4	6.18	0	131	-60	--	--	--
	Oct-07	20.7	6.49	2.41	8.6	-144	--	--	--
	Oct-08	20.7	7.02	0.19	48.6	-58	--	--	--
	Oct-09	20.64	6.81	2.5	4.3	-76	--	--	3.1 J
	10/12/2010 ^(c)	20.19	6.66	2.006	0.0	-88.5	--	980	4.8
	10/20/2010 ^(b)	19.91	6.65	1.655	773.4	-55.7	--	--	340
	11/15/2010 ^(a)	19.9	6.73	0.82	225	-303	--	790	120
	Mar-11	--	--	--	--	--	--	860	180
	May-11	--	--	--	--	--	--	960	28
	Oct-11	20.16	6.65	2.339	2.2	-145.6	--	1,100	4.8
Apr-12	18.66	6.97	1.958	--	-87.9	--	--	7.6	
Oct-12	20.03	6.73	2.252	2.1	-123.2	--	--	6.5	
May-13	20.34	7.31	2.283	57.9	-137	--	--	8.1	
Oct-13	19.8	6.36	1.877	2	-117.5	--	--	5.9	
Apr-14	19.2	6.79	2.112	4	-84	--	--	6.4	
Sep-14	20.44	6.84	2.37	0	-84	--	--	6.5	
T-3A	Oct-08	21.5	7.47	0.13	0	214	--	--	--
	Oct-09	20.10	7.44	1.68	5	1.67	--	--	--
	Oct-10	20.10	6.90	5.499	0.0	80.2	--	--	--
	Oct-11	20.39	6.93	1.666	0.2	222.3	--	--	--
	Oct-12	20.66	6.90	1.445	0.0	122.3	--	--	--
	Oct-13	20	6.71	1.303	1	134.9	--	--	--
	Apr-14	19.6	6.98	1.376	1	-20	--	--	--
Sep-14	20.46	7.15	1.43	0.0	152	--	--	--	
T-8A	Oct-99	21.5	5.78	1.44	1	124	1.36	510	2.2
	Jan-01	18.8	6.57	1.44	11	-311	--	--	--
	Mar-01	18.9	7.00	1.44	151	17	--	--	--
	Jun-01	21.5	6.86	1.49	0	141	3.20	510	<5.0
	Aug-01	20.1	6.71	1.45	0	140	1.10	560	<5.0
	Oct-01	21.0	6.35	1.4	10	77	3.90	470	6.4
	Nov-01	20.0	6.96	1.31	4	-116	220	450	<5.0
	Jan-02	18.9	6.77	1.35	6	73.5	1.1	510	<5.0
	Mar-02	19.3	7.01	1.69	9	59	7.9	440	<5.0
	Jul-02	20.5	6.22	2	--	316	13	450	<5.0
	Oct-02	20.5	6.93	1.33	11	67	11	480	<5.0
	Jan-03	18.9	6.89	1.4	0	143	--	--	--
	Apr-03	18.9	6.86	1.46	0	58	--	--	--
	Jul-03	20.4	7.18	1.46	0	86	--	--	--
	Oct-03	20.8	6.92	1.44	5	109	--	--	--
	Jan-04	19.6	6.50	1.46	0	170	--	420	--
	Apr-04	19.8	6.75	1.41	0	92	--	480	--
	Oct-04	21.5	6.28	1.45	0	-138	--	--	--
	Apr-05	20.0	6.98	1.44	849	77	--	--	--
	Jul-05	21.4	6.68	1.35	--	79	--	470	6.9
	Oct-05	22.1	6.55	1.61	0	-100	--	--	<5.0
	Jan-06	19.2	6.99	0.15	10	-176	--	--	<5.0
	Apr-06	19.1	6.69	1.37	13	-389	--	--	<5.0
	Jul-06	22.4	6.59	0.156	12	8	--	--	<5.0
	Oct-06	22.3	6.52	0.151	10	-101	--	--	<5.0
	Jan-07	19.4	6.33	1.6	--	21	--	--	<5.0
	Apr-07	21.3	6.73	1.55	21.9	19	--	--	<5.0
	Oct-07	22.2	7.03	0.159	8.1	-300	--	--	<5.0
	Oct-08	21.8	6.98	1.87	--	-240	--	--	--
	Feb-09	18.5	7.31	1.61	2.3	-69	--	--	--
	Oct-09	23.1	6.71	1.69	9.8	-69	--	--	<5.0
	Apr-10	18.98	6.97	1.32	24.5	-33	--	--	<5.0
	Oct-10	20.40	6.85	1.546	0.0	33.1	--	--	<1.0
Oct-11	20.50	6.87	1.538	0.2	192.4	--	--	<1.0	
Apr-12	19.73	6.86	1.362	--	12.8	--	--	0.66 J	
Oct-12	21.24	6.89	1.41	0	69	--	--	<1.0	
May-13	22.48	6.59	1.431	26.8	63	--	--	1.2	
Oct-13	19.6	6.63	1.313	2	190.6	--	--	<1	
Apr-14	19	6.9	1.377	5	-28	--	--	1	
Oct-14	22.5	6.9	1.314	1	65.3	--	--	1	
Jun-15	24.6	6.92	1.378	--	24.5	--	--	0.68 J	
Oct-15	22.3	6.88	1.33	--	17	--	--	0.53 J	
May-16	20.2	6.67	1.32	2	38.7	--	--	1.1	
Oct-16	21.3	6.78	1.24	--	34.3	--	--	0.76 J	
Oct-17	22.0	6.94	1.404	1	59.6	--	--	0.99 J	
Oct-18	22.8	7.45	1.288	6	-137.2	--	--	--	
Oct-19	23.2	6.94	1.497	6	-98	--	--	--	
Oct-20	24.4	7.06	1.477	7	30.1	--	--	--	
Oct-21	21.8	6.95	1.398	16	50.6	--	--	--	
T-9A	Jan-04	20.0	6.54	1.4	0	194	--	420	--
	Apr-04	19.2	6.75	1.65	7	144	--	490	--
	Oct-04	23.1	6.80	1.49	0	119	--	--	--
	Jan-05	20.7	6.92	1.36	503	65	--	--	--
	Apr-05	19.6	6.96	1.28	467	48	--	--	--
	Jul-05	20.8	6.37	1.34	--	126	--	470	11
Oct-05	22.5	6.91	1.46	724	88	--	--	<5.0	

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-9A (continued)	Jan-06	21.0	6.99	1.28	108	25	--	--	--
	Apr-06	19.9	6.60	1.39	70.1	-221	--	--	--
	Jul-06	20.6	6.74	0.145	113	69	--	--	--
	Oct-06	21.6	6.60	1.5	66	145	--	--	--
	Jan-07	20.2	6.36	1.57	--	92	--	--	--
	May-07	20.7	6.82	1.56	-2	6.7	--	--	--
	Oct-07	22.6	6.59	2.18	13	140	--	--	--
	Oct-08	22.9	6.7	215	--	-131	--	--	--
	Oct-09	21.89	6.59	1.66	2	49	--	--	--
	Oct-10	22.68	6.84	1.547	0.0	35.9	--	--	--
	Oct-11	21.53	6.81	1.506	0.0	234.0	--	--	--
	Oct-12	22.03	6.84	1.415	0.0	-77.1	--	--	0.055 J
	Oct-13	22.1	6.59	1.315	1	96.8	--	--	--
	Oct-14	23.8	6.92	1.329	1	56.5	--	--	--
	Oct-15	21.8	6.82	1.32	--	109.1	--	--	--
	Oct-16	22.6	6.82	1.291	--	-33.3	--	--	--
	Oct-17	21.8	6.92	1.348	1	173.4	--	--	--
	Oct-18	22.4	7.09	1.344	2	39	--	--	--
Oct-20	25	6.67	1.355	13	-45	--	--	--	
Oct-21	23.6	6.7	1.366	2	154.9	--	--	--	
T-13A	Nov-05	21.0	6.43	1.48	0	248	--	510	6.5
	Jan-06	20.2	6.97	0.158	0	244	--	--	<5.0
	Apr-06	20.0	6.98	0.721	38	111	--	--	<5.0
	Jul-06	20.8	6.23	0.154	5	199	--	--	<5.0
	Oct-06	20.6	5.86	0.17	10	188	--	--	<5.0
	Jan-07	20.4	6.39	1.72	--	65	--	--	<5.0
	Apr-07	20.2	6.38	1.69	--	145	--	--	<5.0
	Jul-07	20.4	6.70	0.134	9.9	236	--	--	<5.0
	Oct-07	20.5	6.10	2.24	259	-152	--	--	410
	Oct-08	20.4	7.15	0.32	325	-181	--	--	37
	Feb-09	19.02	7.09	1.93	65.2	-102	--	--	--
	Oct-09	20.28	6.53	1.77	1.8	-110	--	--	2.3 J
	Apr-10	18.57	6.77	1.47	23.4	-108	--	--	0.8 J
	Oct-10	19.24	6.75	1.538	0.0	-119	--	--	1.0
	Oct-11	19.60	6.79	1.524	0.0	-23	--	--	1.0
	Apr-12	18.9	6.41	1.552	--	-113	--	--	14
	Oct-12	20.4	6.60	1.48	3.4	-105.6	--	--	6.6
	May-13	20.41	7.02	1.412	55.1	-133	--	--	2.4
	Oct-13	20.6	6.85	1.418	52	-79.1	--	--	1.2
	Apr-14	19.6	6.9	1.309	12	-90	--	--	1.7
	Oct-14	20.6	6.93	1.332	4	-59.4	--	--	2.1
	Jun-15	21.8	6.86	1.393	--	-77	--	--	0.94 J
	Oct-15	21.5	6.86	1.133	--	-55	--	--	0.74 J
May-16	20.5	6.87	1.347	6	-12.3	--	--	1.1	
Oct-16	20.1	6.81	1.271	--	-53.4	--	--	1.1	
Oct-17	20.3	6.93	1.400	2	153.4	--	--	0.52 J	
Oct-18	21.2	7.39	1.278	4	-131.8	--	--	--	
Oct-19	21.24	7.27	1.714	8.21	-12	--	--	--	
Oct-20	23.9	6.91	1.478	5	12.3	--	--	--	
Oct-21	20.2	6.9	1.416	9	-72.1	--	--	--	
T-14A	Nov-05	20.6	6.37	1.44	36	242	--	490	5.4
	Jan-06	19.1	6.92	0.161	0	150	--	--	<5.0
	Apr-06	20.2	6.91	1.51	44	80	--	--	<5.0
	Oct-06	20.5	6.71	0.151	10	51	--	--	<5.0
	Apr-07	24.6	6.45	1.46	--	124	--	--	<5.0
	Jul-07	21.1	6.87	0.133	9.4	141	--	--	<5.0
	Oct-07	20.9	6.01	2.03	71.5	-163	--	--	430
	Oct-08	21.0	6.66	243	--	-466	--	--	22
	Feb-09	18.82	7.14	1.4	50.2	-89	--	--	--
	Oct-09	20.65	7.43	1.72	41.8	-154	--	--	8.0
	Apr-10	18.36	6.80	1.51	252.0	-110	--	--	1.3 J
	Oct-10	19.99	6.87	4.45	4.7	-170	--	--	1.2
	Oct-11	20.03	6.77	1.455	0.9	91	--	--	1.2
	Apr-12	17.8	6.71	1.413	--	-117	--	--	6.6
	Oct-12	20.51	6.63	1.363	3.9	-79.8	--	--	--
	May-13	20.1	7.21	1.393	31.2	-151	--	--	1.6
	Oct-13	18.2	6.67	1.232	4	-109.9	--	--	<1
	Apr-14	18.5	6.9	1.338	7	-92.5	--	--	1.2
	Oct-14	19.5	6.91	1.256	2	-68.6	--	--	1.2
	Oct-15	22.0	6.84	1.278	--	-56	--	--	0.68 J
	Oct-16	20	6.79	1.231	--	-84.5	--	--	1
	Oct-17	20.1	6.89	1.333	3	172.4	--	--	0.48 J
	Oct-18	20.9	7.33	1.319	7	-213.6	--	--	--
Oct-19	21.14	7.24	1.499	21.6	-83.9	--	--	--	
Oct-20	23	6.9	1.343	4	-28.2	--	--	--	
Oct-21	0.21	6.6	1.318	1	-130.9	--	--	--	
T-15A	Nov-05	21.5	6.44	1.46	90	-125	--	580	<5.0
	Jan-06	20.3	7.00	0.164	54	-188	--	--	<5.0
	Apr-06	20.3	7.02	0.901	466	-104	--	--	<5.0
	Jul-06	22.3	6.64	0.147	215	-23	--	--	<5.0
	Oct-06	21.4	6.77	0.147	10	-15	--	--	<5.0
	Jan-07	20.1	6.37	1.64	--	69	--	--	<5.0
	May-07	19.9	6.89	0.121	504	60	--	--	<5.0
	Jul-07	22.2	7.16	0.13	27.4	135	--	--	<5.0
	Oct-07	22.3	6.62	2.03	205	15	--	--	<5.0
	Oct-08	22.6	7.22	0.18	24.9	64	--	--	<5.0
	Oct-09	21.27	6.64	1.61	27.9	34	--	--	<5.0
	Oct-10	21.27	6.84	1.489	0.0	63	--	--	--
	Apr-12	19.8	6.81	1.337	--	94	--	--	0.98 J
	Oct-12	22.0	6.47	1.366	0	6.47	--	--	1.6
	May-13	22.05	6.47	1.444	101	114	--	--	1.3
	Oct-13	21.4	6.55	1.282	4	170.9	--	--	--
Apr-14	20.5	6.88	1.358	2	-33	--	--	<1	
Oct-14	21.2	6.91	1.277	1	93.6	--	--	--	
Oct-15	22.8	6.83	1.319	--	27	--	--	--	

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-15A (continued)	Oct-16	26.1	6.85	1.303	--	-51.4	--	--	--
	Oct-17	22.2	6.88	1.329	3	154.6	--	--	--
	Oct-18	20.5	7	1.339	1	47.9	--	--	--
	Oct-19	21.22	7.23	1.515	27.7	32.5	--	--	--
	Oct-20	22.7	6.62	1.335	2	116.9	--	--	--
	Oct-21	21	6.91	1.285	1	59.1	--	--	--
T-16A	Nov-05	22.0	6.41	1.48	15	-101	--	590	7.6
	Jan-06	20.7	6.96	1.42	224	-107	--	--	<5.0
	Apr-06	20.3	7.03	1.43	582	-105	--	--	<5.0
	Oct-06	22.3	6.87	0.15	526	-57	--	--	<5.0
	May-07	20.5	6.86	0.99	78	51	--	--	<5.0
	Oct-07	21.8	7.06	0.15	567	-34	--	--	<5.0
	Oct-08	24.0	6.73	212	--	-135	--	--	<5.0
	Oct-09	22.7	6.24	1.72	6	15	--	--	<5.0
	Oct-10	21.26	6.82	2.996	3.1	139.7	--	--	--
	Oct-11	21.35	6.80	1.479	-0.7	274.7	--	--	--
	Oct-12	22.02	6.71	1.384	0.1	115.5	--	--	--
	Oct-13	21	6.58	1.275	26	149.2	--	--	--
	Oct-14	22.4	6.92	1.293	6	79.8	--	--	--
	Oct-15	21.9	6.84	1.286	--	-45	--	--	--
	Oct-16	20.4	6.63	1.221	--	54.4	--	--	--
	Oct-17	24.5	6.89	1.346	7	175.6	--	--	--
	Oct-18	25.2	7.31	1.343	9	-132.6	--	--	--
	Oct-19	22.1	6.88	1.371	6	81.3	--	--	--
	Oct-20	23.3	6.78	1.336	19	47.5	--	--	--
	Oct-21	21.7	6.85	1.336	11	163.5	--	--	--
	T-17A	Nov-11	18.80	7.7	--	--	-25	--	--
Nov-11		18.2	7.3	--	--	-58	--	--	3
Apr-12		18.2	6.91	1.195	--	61.2	--	--	0.63 J
Oct-12		21.1	6.87	1.313	4.9	147.6	--	--	<1.0
May-13		20.79	6.46	1.308	38.1	170	--	--	1.1
Oct-13		20.4	6.79	1.231	2	-30.5	--	--	<1
Apr-14		19.6	7.02	1.258	6	-42	--	--	<1
Oct-14		21.1	7.23	1.286	4	-47.1	--	--	1.1
Jun-15		21.3	7.12	1.350	--	-39	--	--	0.62 J
Oct-15		25.3	6.88	1.234	--	6	--	--	0.52 J
May-16		20.1	6.82	1.265	4	-8.1	--	--	0.87 J
Oct-16		21.6	7.02	1.281	--	-60.5	--	--	0.77 J
Oct-17		20.2	6.98	1.315	4	144.6	--	--	0.53 J
Oct-18		24.7	7.36	1.106	5	-103.8	--	--	--
Oct-19		21.6	6.94	1.260	7	-155.1	--	--	--
Oct-20	24.2	6.68	1.419	3	15.8	--	--	--	
Oct-21	20.7	6.99	1.32	3	39.5	--	--	--	
T-19A	Sep-07	20.9	7.04	1.56	146	36	--	--	<5.0
	Oct-07	22.0	5.47	6.13	404	-136	--	--	3,500
	Oct-08	22.4	6.49	498	--	-344	--	--	24
	Feb-09	15.76	7.00	1.46	0.0	-94	--	--	--
	Oct-09	22.67	6.84	1.8	2	-120	--	--	5.1
	Apr-10	14.80	6.90	0.714	7.2	-137	--	--	7.6
	Oct-10	19.98	6.81	4.452	0.0	-120	--	--	5.5
	Oct-11	21.15	6.88	1.326	0.6	-133	--	--	5.5
	Apr-12	16.83	6.56	2.056	--	-141	--	--	16
	Oct-12	21.14	6.59	2.042	11	-136.4	--	--	12
	May-13	19.07	7.09	1.519	30.1	-159	--	--	5.4
	Oct-13	21.7	6.67	1.542	11	-105.2	--	--	4.4
	Apr-14	16	6.86	1.024	7	-96	--	--	3.6
	Oct-14	21.6	6.82	1.346	4	-119.1	--	--	3.2
	Jun-15	21.20	6.9	1.317	--	-92	--	--	1.8
	Oct-15	22.60	6.9	1.323	--	-112	--	--	1.6
	May-16	20.90	7.0	1.231	33.0	-97	--	--	2
	Oct-16	22.60	6.9	1.29	--	-80.4	--	--	1.5
	Oct-17	22.7	6.97	1.353	2.0	-31.0	--	--	1.3
	Oct-18	23.5	7.11	1.317	21	-128.1	--	--	--
	Oct-19	22.71	7.26	1.523	14.6	-78	--	--	--
Oct-20	23.2	6.82	2.344	29	-63.9	--	--	--	
Oct-21	22	6.9	1.369	1	-89.6	--	--	--	
T-23A	Sep-07	20.6	7.12	1.46	163	105	--	--	<5.0
	Oct-07	20.3	6.65	0.19	593	-230	--	--	190
	Oct-08	20.1	6.73	0.423	--	-444	--	--	19
	Feb-09	18.8	7.13	1.73	32.5	-89	--	--	--
	Oct-09	20.02	7.60	1.79	6.1	-141	--	--	15
	Apr-10	17.15	6.70	1.51	34.5	-144	--	--	1.3 J
	Oct-10	19.12	6.79	1.57	0.0	-82	--	--	1.1
	Oct-11	19.76	6.85	1.61	0.5	-16	--	--	1.1
	Apr-12	18.0	6.49	1.71	--	-123	--	--	34
	Oct-12	19.8	6.61	1.49	18.9	-91.9	--	--	6.8
	May-13	20.28	7.06	1.484	51.5	-147	--	--	3.3
	Oct-13	20.5	6.69	1.523	847	-108	--	--	3.6
	Apr-14	18.1	6.89	1.39	11	-123	--	--	1.7
	Oct-14	20.4	6.94	1.35	9	-99	--	--	3.5
	Jun-15	20.4	6.96	1.409	--	-64	--	--	0.89 J
	Oct-15	21.9	6.90	1.354	--	-84	--	--	0.85 J
	May-16	20.3	6.84	1.306	7	-36.7	--	--	1.1
	Oct-16	18.8	6.86	1.222	--	-34	--	--	1.2
	Oct-17	20.3	6.93	1.413	2	115.9	--	--	0.53 J
	Oct-18	20.2	7.26	1.406	12	-109.8	--	--	--
	Oct-19	21.31	7.15	1.704	11.6	-91.6	--	--	--
Oct-20	23.65	6.92	2.914	44	-69.1	--	--	--	
Oct-21	20.4	6.83	1.484	12	-50.3	--	--	--	
T-25A	Sep-07	21.7	7.03	1.59	144	0.71	--	--	<5.0
	Oct-07	21.4	6.89	0.14	398	-155	--	--	24
	Oct-08	22.0	7.18	0.19	17.2	-129	--	--	<5.0
	Feb-09	18.35	7.20	1.57	16.1	-86	--	--	--
	Oct-09	21.61	6.69	1.63	3.4	-101	--	--	<5.0
	Apr-10	18.11	6.80	1.57	107.0	-87	--	--	0.8 J

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-25A (continued)	Oct-10	20.06	6.87	6.54	12.1	-24.6	--	--	<1.0
	Oct-11	20.33	6.74	1.46	1.4	299.5	--	--	<1.0
	Apr-12	19.1	6.76	1.31	--	-138.2	--	--	1.5
	Oct-12	20.86	6.54	1.37	1.1	-81.2	--	--	1.5
	May-13	21.76	7.29	1.41	150	-101	--	--	1.4
	Oct-13	19.3	6.57	1.252	3	-90.2	--	--	<1
	Apr-14	19.2	6.91	1.341	13	-97	--	--	1
	Oct-14	20.9	6.95	1.266	2	-67.2	--	--	1.2
	Jun-15	20.7	6.82	1.350	--	-20	--	--	0.70 J
	Oct-15	22.1	6.84	1.272	--	-35	--	--	0.54 J
	May-16	20.7	6.79	1.355	30	39.7	--	--	0.85 J
	Oct-16	21.4	6.83	1.240	--	-42	--	--	0.75 J
	Oct-17	21.7	6.89	1.330	5	173.8	--	--	0.46 J
	Oct-18	23.5	7.31	1.351	5	-125.4	--	--	--
	Oct-19	21	7.24	1.495	35.1	38.3	--	--	--
Oct-20	22.63	6.97	2.501	29	127.9	--	--	--	
Oct-21	20.8	6.82	1.29	36	-20.6	--	--	--	
Zone B1 Aquifer Wells									
T-7B	Oct-99	19.3	8.74	0.41	0	75	1.19	330	2.1
	Sep-00	19.9	6.60	1.16	2	-230	--	350	2.3
	Nov-00	17.4	6.31	0.33	1	158	2.6	88	43
	Dec-00	18.4	7.82	0.37	5	-215	10	130	11
	Feb-01	18.9	7.64	0.91	--	-163	0.96	160	18
	Apr-01	19.4	6.92	1.19	30	-125	2.7	360	<2.0
	Jun-01	19.2	7.33	1.27	0	147	3.3	380	5.3
	Aug-01	19.1	6.88	1.17	0	9	2.2	360	5.6
	Oct-08	19.7	7.67	0.111	6.7	--	--	--	--
	Oct-09	20.06	6.92	1.12	46.8	101	--	--	--
	Oct-10	21.21	7.10	1.11	0.0	77.8	--	--	--
	Oct-11	21.03	7.15	1.08	9.6	66.7	--	--	--
	Oct-12	20.79	7.02	1.09	1.1	131.1	--	--	<1.0
	Oct-13	20.4	6.83	1.024	3	111.4	--	--	--
	Oct-14	20.7	7.19	1.017	1	83	--	--	--
	Jun-15	22.2	7.26	0.995	--	14	--	--	--
	Oct-15	27.7	7.55	0.958	--	162	--	--	--
	May-16	19.2	7.32	1.048	2	73	--	--	--
	Oct-16	21.5	7.81	0.851	--	6.9	--	--	--
	Oct-17	20.0	7.17	1.024	1	232.4	--	--	--
	Oct-18	23.5	7.79	0.94	1	94.9	--	--	--
Oct-19	23.8	7.25	1.007	4	115.9	--	--	--	
Oct-20	23.5	7.41	0.981	7	53.5	--	--	--	
Oct-21	21.4	7.11	1	1	129.5	--	--	--	
T-2B	Nov-99	21.3	7.01	1.43	0	-6	1.65	470	4.10
	Oct-00	21	6.92	1.41	11	-18	110	480	<2.0
	Nov-00	20.6	6.57	1.57	20	-341	240	680	220
	Dec-00	19.7	6.52	2.11	75	-239	41	1,000	390
	Feb-01	20.4	6.85	1.50	--	-192	6	120	180
	Apr-01	19.6	6.66	1.55	46	-159	7.1	670	95
	Jun-01	19.6	6.95	1.47	0	-150	5.6	690	11
	Aug-01	21.0	6.07	3.41	0	-101	79	2,100	1,300
	Oct-01	20.2	6.12	3.86	16	-110	36	2,400	1,600
	Jan-02	19.3	6.45	3.52	56	-104	8.3	1,700	840
	Apr-02	18.4	6.38	3.69	40	-120	1.9	2,000	960
	Jul-02	19.6	6.55	2.79	--	-168	28	1,600	300
	Oct-02	19.8	6.79	2.98	286	-140	5.3	2,100	140
	Jan-03	18.5	6.89	2.83	3	-144	--	1,700	13
	Apr-03	19.1	6.73	2.61	10	-148	--	1,400	5.6
	Jul-03	19.4	7.05	2.60	32	-144	--	1,600	8.2
	Oct-03	20.0	6.76	2.60	20	-149	--	1,300	5.7
	Jan-04	19.3	6.47	2.54	0	-195	--	1,200	6.0
	Apr-04	19.3	6.62	2.31	3	-191	--	1,200	11
	Oct-04	20.7	6.54	2.34	0	-175	--	1,200	6.0
	Jan-05	19.4	6.76	2.02	3	-163	--	--	<1.0
	Apr-05	19.7	6.77	1.96	20	-146	--	--	28
	Jul-05	20.1	6.54	1.83	--	-152	--	--	20
	Oct-05	20.1	7.19	1.68	11	-90	--	--	<5.0
	Jan-06	19.6	6.84	0.19	92	-170	--	--	--
	Apr-06	20.0	6.99	1.56	58	-127	--	--	--
	Oct-06	19.0	7.78	1.58	331	-160	--	--	--
	Apr-07	19.7	6.84	0.13	5.9	-117	--	--	--
	Oct-07	20.0	7.11	0.146	144	-146	--	--	--
	Oct-08	20.4	6.86	--	--	-437	--	--	--
	Oct-09	20.56	6.65	2.03	3.1	-138	--	--	--
	10/12/2010 ^(c)	20.00	6.82	1.53	7.7	-108	--	490	<1.0
	10/20/2010 ^(b)	19.71	6.77	1.54	170.7	-95	--	--	57.0
11/15/2010 ^(a)	19.6	6.94	1.62	81.4	-118	--	540	27.0	
May-11	--	--	--	--	--	--	500	1.4 J	
Oct-11	19.92	6.88	1.57	0.1	-131.5	--	510	<1.0	
Apr-12	19.09	6.98	1.51	--	-105	--	--	1.2	
Oct-12	20.08	6.95	1.49	0	-119.7	--	--	0.11 J	
May-13	20.68	7.18	1.501	123	-111	--	--	1.5	
Oct-13	19.3	6.49	1.449	2	-125.8	--	--	<1	
Apr-14	19.4	6.77	1.723	5	-122	--	--	1.9	
Sep-14	19.91	7.01	1.77	0	-125	--	--	--	
T-5B	Oct-08	20.0	7.69	0.118	5.9	--	--	--	--
	Oct-09	20.73	7.11	1.26	0.5	50	--	--	--
	Oct-10	21.33	7.11	1.237	0.0	107.1	--	--	--
	Oct-11	22.57	7.18	1.21	3.9	83.5	--	--	--
	Oct-12	21.05	7.11	1.23	0.0	76.9	--	--	--
	Oct-13	21.5	6.88	1.15	3	95.8	--	--	--
	Oct-14	20.7	7.25	1.107	1	149.8	--	--	--
	Oct-15	24.2	7.15	1.145	--	278	--	--	--
Oct-16	21.5	7.56	0.927	--	9.7	--	--	--	
Oct-17	20.8	7.23	1.103	1	217.6	--	--	--	

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-5B (continued)	Oct-18	23.6	7.41	1.143	1	5.9	--	--	--
	Oct-19	20.9	7.25	1.083	2	89.7	--	--	--
	Oct-20	22	7.12	1.091	2	47	--	--	--
	Oct-21	19.8	7.25	1.07	1	183.6	--	--	--
T-8B	Oct-99	22.1	5.77	1.5	0	130	1.09	500	3.1
	Oct-00	21.5	6.82	1.46	10	180	290	500	4.1
	Nov-00	20.1	6.60	1.42	1	-264	95	570	6.6
	Dec-00	19.8	7.02	1.59	7	-306	3.5	720	11
	Feb-01	19.4	7.02	1.336	--	-186	11	74	<2.0
	Apr-01	20.0	6.64	1.58	40	-133	140	610	3.6
	Jun-01	22.8	6.81	1.59	0	-42	3.5	480	<5.0
	Aug-01	20.4	6.64	1.43	0	-101	16	550	6.3
	Oct-01	21.5	6.09	1.39	22	77	11	510	<5.0
	Jan-02	18.8	6.79	1.48	18	-75	33	590	<5.0
	Mar-02	19.6	6.97	1.46	24	20	23	500	<5.0
	Jul-02	20.0	6.39	2	--	322	2000	500	<5.0
	Oct-02	20.4	6.91	1.41	143	-72	6.1	550	<5.0
	Jan-03	19.3	6.72	1.4	0	-35	--	--	--
	Apr-03	19.6	6.90	1.16	9	-83	--	--	--
	Jul-03	20.2	7.48	1.51	26	-40	--	--	--
	Oct-03	20.5	6.94	1.5	14	-30	--	--	--
	Apr-04	21.6	6.83	1.4	15	-23	--	--	--
	Oct-04	23.2	6.15	1.5	36	-161	--	--	--
	Apr-05	20.1	6.95	1.41	351	-83	--	--	--
	Jul-05	21.7	6.64	1.43	--	-59	--	500	8.3
	Oct-05	21.4	6.84	1.51	0	-96	--	--	<5.0
	Jan-06	19.6	6.95	1.35	93	-114	--	--	--
	Apr-06	20.1	6.65	1.56	32	-230	--	--	<5.0
	Jul-06	22.4	6.65	0.15	43	-113	--	--	<5.0
	Oct-06	20.7	6.75	1.38	217	-158	--	--	<5.0
	Jan-07	20.0	6.36	1.65	--	-76	--	--	<5.0
	Apr-07	24.5	6.62	1.35	9	-56	--	--	<5.0
	Oct-07	21.9	6.68	2.87	186	-112	--	--	<5.0
	Oct-08	22.0	6.78	1.99	--	-180	--	--	--
	Oct-09	24.31	6.42	1.55	41	-64	--	--	<5.0
	Oct-10	20.60	6.90	6.2	0.4	-57.0	--	--	--
	Oct-11	20.13	6.90	1.515	9.0	59.4	--	--	--
Oct-12	21.73	6.77	1.432	15.6	-61.4	--	--	<1.0	
Oct-13	20.6	6.63	1.338	10	-75.6	--	--	--	
Oct-14	20.8	7.02	1.339	1	-64.4	--	--	--	
Jun-15	22.3	6.94	1.378	--	-94	--	--	--	
Oct-15	24.8	7.27	0.880	--	-138	--	--	--	
May-16	20.2	7.11	1.417	2	-53	--	--	--	
Oct-16	21.2	7.38	1.259	--	-92.1	--	--	--	
Oct-17	20.9	7.04	1.347	9	137.6	--	--	--	
Oct-18	22.4	7.21	1.389	6	-81.6	--	--	--	
Oct-19	22.5	7.03	1.303	17	-83.3	--	--	--	
Oct-20	27.5	7.08	1.328	8	-9.3	--	--	--	
Oct-21	21.9	7.07	1.297	9	-50.6	--	390	0.74 J	
T-9B	Oct-08	20.4	7.57	0.127	0	--	--	--	--
	Oct-09	20.39	6.92	1.43	25.8	-55	--	--	--
	Oct-10	21.53	7.04	1.591	0.0	-168.6	--	--	--
	Oct-11	20.60	7.06	1.547	0.0	-131.8	--	--	--
	Oct-12	20.95	6.94	1.585	1.1	42.8	--	--	<1.0
	Oct-13	25.1	6.76	1.471	1	99.4	--	--	--
	Oct-14	19.9	7.09	1.403	1	234	--	--	--
	Jun-15	21.8	6.98	1.412	--	17	--	--	--
	Oct-15	24.6	7.20	0.871	--	143	--	--	--
	May-16	27.1	7.16	1.454	1	78	--	--	--
	Oct-16	18.6	8.37	0.885	--	-130.4	--	--	--
	Jan-17	20.4	7.17	1.337	1	237.9	--	--	--
	Jan-17	19.84	7.19	1.279	1	223.9	--	--	--
	Oct-17	20.7	7.12	1.408	1	172.6	--	--	--
Oct-18	22.8	7.27	1.402	4	9	--	--	--	
T-10B	Oct-05	22.0	7.04	1.3	462	15	--	--	5.4
	Jan-06	20.5	6.96	0.98	35	-43	--	--	<5.0
	Apr-06	20.8	6.61	1.59	43	-195	--	--	<5.0
	Jul-06	22.9	6.51	0.15	86	30	--	--	<5.0
	Oct-06	23.9	6.75	1.32	--	4	--	--	<5.0
	Jan-07	20.2	6.39	1.52	--	8	--	--	<5.0
	May-07	21.2	6.88	0.108	404	-58	--	--	--
	Jul-07	22.0	7.51	0.11	216	-23	--	--	--
	Oct-07	21.7	7.17	0.15	398	-55	--	--	<5.0
	Oct-08	22.3	7.19	0.273	43.2	-51	--	--	--
	Oct-09	21.62	6.27	1.65	2.3	-49	--	--	<5.0
	Oct-10	20.68	6.85	5.932	0.0	-13.0	--	--	--
	Oct-11	20.60	6.76	1.49	0.0	234.9	--	--	--
	Oct-12	21.52	6.48	1.382	0.0	130.0	--	--	<1.0
	Oct-13	18.6	6.72	1.121	2	184.8	--	--	--
	Oct-14	22.8	6.94	1.322	1	1.4	--	--	--
	Oct-15	24.9	7.55	0.341	--	-159	--	--	--
	Oct-16	20.5	6.71	397	--	-38.3	--	--	--
	Oct-17	23.6	6.89	1.42	2	146.2	--	--	--
	Oct-18	22.1	7.43	1.068	6	-79.8	--	--	--
Oct-19	22.4	6.87	1.374	8	25.2	--	--	--	
Oct-20	22.5	6.82	1.364	5	-30.7	--	--	--	
Oct-21	21.7	6.9	0.673	5	148.3	--	420	1.9	
T-4B	Oct-99	20.2	6.34	1.27	0	12	1.29	420	2.2
	Apr-03	19.5	7.30	1.22	0	277	--	--	--
	Jul-03	19.7	7.86	1.34	3	-38	--	--	--
	Jan-04	19.4	6.86	1.39	0	-61	--	430	--
	Apr-04	20.1	6.95	1.29	0	-40	--	440	--
	Oct-04	21.1	7.25	1.3	--	--	--	--	--
Jan-05	20.0	7.24	1.41	--	-92	--	--	--	
Apr-05	19.7	7.30	1.34	343	-63	--	--	--	

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-4B (continued)	Jul-05	20.7	6.98	1.32	--	11	--	460	7.6
	Oct-05	21.1	7.23	1.42	421	-37	--	--	<5.0
	Jan-06	20.5	7.34	1.28	53	-121	--	--	--
	Apr-06	20.1	6.91	1.29	22	-161	--	--	--
	Oct-06	20.1	7.79	1.34	213	-111	--	--	--
	May-07	20.3	7.54	1.05	--	95	--	--	--
	Jul-07	20.8	7.73	0.1	46.5	78	--	--	--
	Oct-07	20.2	7.59	0.14	311	-82	--	--	<5.0
	Oct-08	21.9	7.3	187	--	-144	--	--	--
	Oct-09	19.92	6.61	1.57	9.9	-137	--	--	--
	Oct-10	21.74	7.23	5.526	6.8	-17.6	--	--	--
	Oct-11	22.4	7.24	1.383	0	49.2	--	--	--
	Oct-12	21.42	7.07	1.418	5.5	19	--	--	--
	Oct-13	20.9	7.09	1.071	1	110	--	--	--
	Oct-14	21.6	7.29	1.306	2	-53.3	--	--	--
	Jun-15	20.9	7.80	0.829	--	41	--	--	--
	Oct-15	32.2	8.11	0.837	--	279	--	--	--
	May-16	21.7	7.54	1.286	9	48	--	--	--
	Oct-16	23.7	8.15	0.831	--	-8.3	--	--	--
	Oct-17	21.4	7.27	1.331	2	141.7	--	--	--
	Oct-18	23.5	7.41	1.334	1.14	-70	--	--	--
Oct-19	20.8	7.15	1.336	3	-62.3	--	--	--	
Oct-20	21.9	7.13	1.349	3	19.2	--	--	--	
Oct-21	22.4	7.67	0.984	1	-48	--	--	--	
T-17B	Jan-06	19.0	7.14	1.18	0	-82	--	--	--
	Apr-06	21.0	6.81	1.25	159	-237	--	--	--
	Jul-06	23.8	6.93	0.125	95	-106	--	--	--
	Oct-06	20.3	7.86	0.819	--	-113	--	--	--
	Jan-07	19.6	6.30	1.28	--	25	--	--	--
	May-07	20.6	7.02	0.1	205	64	--	--	--
	Jul-07	21.5	7.57	0.09	255	73	--	--	--
	Oct-07	20.8	7.39	0.12	581	-65	--	--	<5.0
	Oct-08	22.1	7.5	0.139	35.4	-186	--	--	--
	Oct-09	21.49	6.70	1.47	13.5	-36	--	--	--
	Oct-10	20.08	7.22	1.321	0.0	-28.8	--	--	--
	Oct-11	21.03	7.15	1.079	9.6	66.7	--	--	--
	Apr-12	19.08	7.12	1.152	--	34.3	--	--	0.55 J
	Oct-12	21.15	6.84	1.23	1.4	124.6	--	--	<1.0
	May-13	22	7.2	1.313	--	-17	--	--	1
	Oct-13	20.2	7.22	1.246	6	-14.6	--	--	<1
	Apr-14	18.4	7.21	1.248	8	-55	--	--	<1
	Oct-14	20	7.29	1.206	4	7.4	--	--	1.3
	Jun-15	22.8	7.13	1.217	--	-11.2	--	--	0.43 J
	Oct-15	22.2	7.09	1.176	--	-14	--	--	0.38 J
	May-16	25.0	7.20	1.254	67	12	--	--	0.68 J
Oct-16	21.1	7.06	1.158	--	-33.4	--	--	0.57 J	
Oct-17	19.9	7.17	1.200	9	220.6	--	--	0.26 J	
Oct-18	21.6	7.29	1.26	5	-43.3	--	--	--	
Oct-19	21.2	7.16	1.193	7	-79.8	--	--	--	
Oct-20	22.3	7.11	1.201	7	14.7	--	--	--	
Oct-21	20.6	7.18	1.181	2	-6.6	--	--	--	
T-18B	May-13	23.04	8.04	0.994	--	-175	--	--	--
	Oct-13	22	7.35	0.898	5	-89.5	--	--	--
	Oct-14	23.4	7.63	0.846	24	-76.8	--	--	--
	Oct-15	20.5	8.25	0.825	--	122.4	--	--	--
	Oct-16	20.1	7.49	0.64	--	7.9	--	--	--
	Oct-17	22.2	7.58	0.784	66	93.6	--	--	--
	Oct-18	23.3	7.64	0.853	3	-98.4	--	--	--
	Oct-19	21.5	7.77	0.785	5	-97	--	--	--
	Oct-20	24.3	7.36	1.374	527	-41.4	--	--	--
Oct-21	20.5	7.94	0.663	0	131.1	--	--	--	
T-19B	May-13	21.44	6.94	1.095	--	34	--	--	--
	Oct-13	20.6	6.86	1.008	118	93.6	--	--	--
	Oct-14	22.7	7.26	1.001	102	90.2	--	--	--
	Oct-15	20.2	7.22	1.033	--	133.6	--	--	--
	Oct-16	17.7	9.2	0.999	--	106.4	--	--	--
	Oct-17	19.4	7.16	1.008	519	305.5	--	--	--
	Oct-18	19.4	7.3	1.048	340	205.1	--	--	--
	Oct-19	18.4	7.06	1.091	9	24.7	--	--	--
	Oct-20	21.2	6.92	1	12	97.5	--	--	--
Oct-21	20.9	7.27	1.006	11	-131.5	--	--	--	
T-20B	Oct-17	22.3	7.11	1.480	42	139.6	--	--	--
	Oct-18	21.6	7.39	1.39	3	67.5	--	--	--
	Oct-19	22.1	7.2	1.346	7	19.3	--	--	--
	Oct-20	24.1	7.12	2.486	249	5.4	--	--	--
	Oct-21	20	7.26	1.37	2	-38.2	--	--	--
T-21B	Oct-17	20.5	7.08	1.267	3	185.6	--	--	--
	Oct-18	22.4	7.31	1.311	4	32.9	--	--	--
	Oct-19	23.9	7.15	1.263	3	33	--	--	--
	Oct-20	23.3	7.18	2.394	36	119.7	--	--	--
	Oct-21	20.5	7.22	1.239	1	163.3	--	--	--
T-22B	Oct-17	21.4	6.96	1.337	4	137.4	--	--	--
	Oct-18	20.3	7.02	1.391	1	75.8	--	--	--
	Oct-19	22.8	6.92	1.361	4	59.7	--	--	--
	Oct-20	23.75	6.93	2.54	30	117.8	--	--	--
	Oct-21	22	6.2	1.352	1	200.3	--	--	--
T-23B	Oct-17	25.1	7.06	1.397	177	89.2	--	--	--
	Oct-18	22.6	7.1	1.379	17	27	--	--	--
	Oct-19	23.5	6.96	1.370	3	58.3	--	--	--
	Oct-20	23.8	6.88	1.336	10	60.9	--	--	--
	Oct-21	21.6	6.89	1.348	3	88.7	--	--	--
T-24B	Oct-17	20.7	7.33	1.270	183	128.6	--	--	--
	Oct-18	21.2	7.51	1.319	1	9.8	--	--	--
	Oct-19	23	7.35	1.250	9	-22.9	--	--	--
	Oct-20	22.1	7.25	1.255	30	66	--	--	--

Appendix D2 - Historical Groundwater Quality Parameters Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California



Well	Date	Temperature (°C)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Hydrogen (nM)	Alkalinity (mg/L as CaCO3)	Total Organic Carbon (mg/L)
T-24B	Oct-21	21.7	7.42	1.239	1	1.79	--	--	--
T-25Bs	Dec-18	21.6	7.14	1.57	9.59	134.9	--	--	--
	Oct-19	21.4	7.03	1.688	39	-105.1	--	--	--
	Oct-20	24.1	6.84	2.735	74	-25.1	--	--	--
	Oct-21	23.8	7.09	1.413	2	-53	--	490	0.95 J
T-25Bd	Dec-18	20.9	7.08	0.92	--	155.1	--	--	--
	Oct-19	21.8	7.14	1.156	3	7.1	--	--	--
	Oct-20	22.3	7.09	1.074	38	64	--	--	--
	Oct-21	23.9	7.27	1.035	1	81.3	--	--	--
Zone B2 Aquifer Wells									
T-2C	Oct-01	21.0	6.87	0.811	10	-24	2.0	320	<5.0
	Oct-07	21.8	7.06	1.26	9.5	11	2.0	320	--
	Oct-08	20	7.79	93	0	57	--	--	--
	Oct-09	20.02	7.08	0.96	372	20	--	--	--
	Oct-10	21.94	7.90	0.87	0.0	150.7	--	--	--
	Oct-11	20.32	7.50	0.899	0.9	64.3	--	--	--
	Oct-12	20.02	7.46	0.929	2.3	57.1	--	--	--
	Oct-13	19.1	7.97	0.817	2.0	147.2	--	--	--
	Apr-14	19.5	5.62	0.83	7	121	--	--	--
Sep-14	19.77	7.84	0.91	0	110	--	--	--	
T-10C	Oct-08	19.9	7.98	86	0	--	--	--	--
	Oct-09	20.53	7.52	0.914	-4.1	-91	--	--	--
	Oct-10	21.44	7.63	0.805	0.0	-117.5	--	--	--
	Oct-11	21.71	7.52	0.825	1.3	-192.2	--	--	--
	Oct-12	21.22	7.40	0.825	0.0	162.3	--	--	--
	Oct-13	20.9	7.71	0.783	7	-50.3	--	--	--
	Oct-14	20.7	7.68	0.756	5	77.7	--	--	--
	Jun-15	20.8	7.32	0.854	--	-150	--	--	--
	Oct-15	25.2	7.59	0.847	--	-222	--	--	--
	May-16	21	7.46	0.963	17	-41	--	--	--
	Oct-16	21.1	7.61	0.783	--	-32.7	--	--	--
	Oct-17	20.3	7.53	0.798	8	162.4	--	--	--
	Oct-18	22.8	7.65	0.872	3	-135.8	--	--	--
	Oct-19	22.6	7.66	0.780	8	-78.9	--	--	--
Oct-20	23.4	7.52	0.791	8	-17.9	--	--	--	
Oct-21	21.9	7.72	0.772	5	64.3	--	--	--	
T-11C	Oct-08	20.5	7.87	0.1	14.8	--	--	--	--
	Oct-09	20.31	7.22	0.98	156	71	--	--	--
	Oct-10	21.65	7.34	0.974	0.0	78.1	--	--	--
	Oct-11	21.25	7.33	0.956	0.0	-8.0	--	--	--
	Oct-12	21.66	6.94	0.971	0.0	208.0	--	--	--
	Oct-13	20.6	6.93	0.931	3	103.7	--	--	--
	Oct-14	22.2	7.38	0.903	1	37.4	--	--	--
	Oct-15	22.2	7.83	0.809	--	114	--	--	--
	Oct-16	22.6	7.61	0.775	--	-21.4	--	--	--
	Oct-17	22.7	7.37	0.895	1	90.3	--	--	--
	Oct-18	23.7	7.82	0.942	3	101.6	--	--	--
	Oct-19	22.8	7.4	0.923	7	28.9	--	--	--
	Oct-20	23.7	7.31	0.939	4	2.7	--	--	--
Oct-21	24.7	7.31	0.939	1	159.7	--	--	--	
T-12C	Oct-08	19.8	10.4	32	19.3	73	--	--	--
	Oct-09	19.13	7.70	0.88	1.4	90	--	--	--
	Oct-10	20.53	9.44	12.84	1.8	65.0	--	--	--
	Oct-11	20.36	8.95	0.255	20.9	-5.1	--	--	--
	Oct-12	19.83	9.17	0.253	8.2	4.2	--	--	--
	Oct-13	20	7.38	0.858	23	113.8	--	--	--
	Oct-14	20.3	7.5	0.827	29	96.3	--	--	--
	Oct-15	22.8	8.74	0.586	--	24	--	--	--
	Oct-16	22.2	7.95	0.455	--	-104.8	--	--	--
	Oct-17	22.0	7.49	0.846	18	101.2	--	--	--
	Oct-18	21.9	7.61	0.7	5	57.9	--	--	--
	Oct-19	20.6	7.55	0.837	4	85.9	--	--	--
	Oct-20	23.1	7.39	0.858	8	11.8	--	--	--
Oct-21	21	9.18	0.255	0	49.1	--	--	--	
Zone B3 Aquifer Wells									
T-9C	Oct-08	20.7	8.24	76	0.2	--	--	--	--
	Oct-09	20.18	7.39	0.829	113	-96	--	--	--
	Oct-10	24.07	7.55	0.807	0.0	21.3	--	--	--
	Oct-11	20.35	7.78	0.765	0.0	-127.6	--	--	--
	Oct-12	21.23	7.50	0.777	0.0	48.0	--	--	--
	Oct-13	19.4	7.48	0.739	4	122.2	--	--	--
	Oct-14	23.1	7.85	0.723	2	14.3	--	--	--
	Oct-15	22.6	7.57	0.746	--	154	--	--	--
	Oct-16	20.1	7.84	0.73	--	-25.5	--	--	--
	Oct-17	20.1	7.82	0.73	5	160.2	--	--	--
	Oct-18	22.8	7.62	0.762	1	45.8	--	--	--
	Oct-19	22	7.72	0.787	3	47	--	--	--
	Oct-20	20.3	7.49	0.762	6	39.4	--	--	--
Oct-21	21.9	7.83	0.726	4	-61.1	--	--	--	

Notes:
^(a) One month post EVO injection (just before pure soybean oil injection)
^(b) Immediately after EVO injection
^(c) Immediately before EVO injection
°C = degree Celsius
SU = standard units
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mV = millivolts
nM = nanomolar
mg/L = milligram per liter
CaCO₃ = calcium carbonate
-- = not analyzed/measured
Data prior to 2009 was not collected by AECOM and cannot be verified.

Appendix E – Analytical Laboratory Reports and Chain-of-Custody Forms - 2021

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-80241-1
Client Project/Site: NGC Microwave

For:

Groundwater & Environmental Services Inc
9655 Granite Ridge Drive
Suite 200
San Diego, California 92123

Attn: Jennifer Clay



Authorized for release by:
10/26/2021 5:30:26 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
Afsaneh.Salimpour@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14



Definitions/Glossary

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Job ID: 320-80241-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-80241-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5° C.

General Chemistry

Method 300.0: The following samples in analytical batch 320-533534 were diluted due to the nature of the sample matrix: J6038-T10B-101221 (320-80241-1), J6038-T25BS-101221 (320-80241-2), J6038-T8B-101221 (320-80241-3), (320-80241-A-1 MS) and (320-80241-A-1 MSD). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples in analytical batch 320-533535 were diluted due to the nature of the sample matrix: J6038-T10B-101221 (320-80241-1), J6038-T25BS-101221 (320-80241-2), J6038-T8B-101221 (320-80241-3), (320-80241-A-1 MS) and (320-80241-A-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80241-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	160		5.0	1.8	mg/L	5		300.0	Total/NA

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80241-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	170		5.0	1.8	mg/L	5		300.0	Total/NA

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80241-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	200		5.0	1.8	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: NGC Microwave

Job ID: 320-80241-1

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80241-1

Date Collected: 10/12/21 09:35

Matrix: Water

Date Received: 10/13/21 10:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		1.3	0.50	mg/L			10/13/21 13:32	5
Sulfate	160		5.0	1.8	mg/L			10/13/21 13:32	5

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80241-2

Date Collected: 10/12/21 11:17

Matrix: Water

Date Received: 10/13/21 10:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		1.3	0.50	mg/L			10/13/21 14:25	5
Sulfate	170		5.0	1.8	mg/L			10/13/21 14:25	5

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80241-3

Date Collected: 10/12/21 13:35

Matrix: Water

Date Received: 10/13/21 10:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		1.3	0.50	mg/L			10/13/21 14:42	5
Sulfate	200		5.0	1.8	mg/L			10/13/21 14:42	5

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: NGC Microwave

Job ID: 320-80241-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 320-533534/3
Matrix: Water
Analysis Batch: 533534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.36	mg/L			10/13/21 12:57	1

Lab Sample ID: LCS 320-533534/4
Matrix: Water
Analysis Batch: 533534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.50	7.50		mg/L		100	90 - 110

Lab Sample ID: 320-80241-1 MS
Matrix: Water
Analysis Batch: 533534

Client Sample ID: J6038-T10B-101221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	160		25.0	178	4	mg/L		87	90 - 110

Lab Sample ID: 320-80241-1 MSD
Matrix: Water
Analysis Batch: 533534

Client Sample ID: J6038-T10B-101221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	160		25.0	178	4	mg/L		88	90 - 110	0	10

Lab Sample ID: MB 320-533535/3
Matrix: Water
Analysis Batch: 533535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.25	0.10	mg/L			10/13/21 12:57	1

Lab Sample ID: LCS 320-533535/4
Matrix: Water
Analysis Batch: 533535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.50	1.46		mg/L		97	90 - 110

Lab Sample ID: 320-80241-1 MS
Matrix: Water
Analysis Batch: 533535

Client Sample ID: J6038-T10B-101221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		5.00	4.79		mg/L		96	90 - 110

Lab Sample ID: 320-80241-1 MSD
Matrix: Water
Analysis Batch: 533535

Client Sample ID: J6038-T10B-101221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.78		mg/L		96	90 - 110	0	10

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

HPLC/IC

Analysis Batch: 533534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80241-1	J6038-T10B-101221	Total/NA	Water	300.0	
320-80241-2	J6038-T25BS-101221	Total/NA	Water	300.0	
320-80241-3	J6038-T8B-101221	Total/NA	Water	300.0	
MB 320-533534/3	Method Blank	Total/NA	Water	300.0	
LCS 320-533534/4	Lab Control Sample	Total/NA	Water	300.0	
320-80241-1 MS	J6038-T10B-101221	Total/NA	Water	300.0	
320-80241-1 MSD	J6038-T10B-101221	Total/NA	Water	300.0	

Analysis Batch: 533535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80241-1	J6038-T10B-101221	Total/NA	Water	300.0	
320-80241-2	J6038-T25BS-101221	Total/NA	Water	300.0	
320-80241-3	J6038-T8B-101221	Total/NA	Water	300.0	
MB 320-533535/3	Method Blank	Total/NA	Water	300.0	
LCS 320-533535/4	Lab Control Sample	Total/NA	Water	300.0	
320-80241-1 MS	J6038-T10B-101221	Total/NA	Water	300.0	
320-80241-1 MSD	J6038-T10B-101221	Total/NA	Water	300.0	

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80241-1

Date Collected: 10/12/21 09:35

Matrix: Water

Date Received: 10/13/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	533534	10/13/21 13:32	Y1S	TAL SAC
Total/NA	Analysis	300.0		5	10 mL	10 mL	533535	10/13/21 13:32	Y1S	TAL SAC

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80241-2

Date Collected: 10/12/21 11:17

Matrix: Water

Date Received: 10/13/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	533534	10/13/21 14:25	Y1S	TAL SAC
Total/NA	Analysis	300.0		5	10 mL	10 mL	533535	10/13/21 14:25	Y1S	TAL SAC

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80241-3

Date Collected: 10/12/21 13:35

Matrix: Water

Date Received: 10/13/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	533534	10/13/21 14:42	Y1S	TAL SAC
Total/NA	Analysis	300.0		5	10 mL	10 mL	533535	10/13/21 14:42	Y1S	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL SAC

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Groundwater & Environmental Services Inc
Project/Site: NGC Microwave

Job ID: 320-80241-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-80241-1	J6038-T10B-101221	Water	10/12/21 09:35	10/13/21 10:40
320-80241-2	J6038-T25BS-101221	Water	10/12/21 11:17	10/13/21 10:40
320-80241-3	J6038-T8B-101221	Water	10/12/21 13:35	10/13/21 10:40

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

BLAINE

TECH SERVICES, INC

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB EUROFINS -TA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA RWQCB REGION
 LIA
 OTHER

CHAIN OF CUSTODY
 BTS # 2110115C-1

CLIENT GES (Groundwater & Environmental Services)

SITE TRW Microwave
825 Stewart Dr., Sunnyvale, CA
GHD Project #: 11224293-J6038

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		C = COMPOSITE ALL CONTAINERS	H VOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)
			S=SOIL W=H ₂ O	TOTAL	TYPE						
<u>J6038-T103-101221</u>	<u>10/12/21</u>	<u>0935</u>	<u>W</u>	<u>1</u>	<u>250 NP Poly</u>			<u>X</u>			
<u>J6038-T2585-101221</u>	<u>1</u>	<u>1117</u>	<u>1</u>	<u>1</u>	<u>1</u>			<u>X</u>			
<u>J6038-T88-101221</u>	<u>1</u>	<u>1335</u>	<u>1</u>	<u>1</u>	<u>1</u>			<u>X</u>			

SPECIAL INSTRUCTIONS

Invoice to: NGC

Report to: GES - Jennifer Clay 619-743-9953
JeClay@gesonline.com

Cc Report to: twright@gesonline.com

SSOW Ref. Code: 11224293-J6038-010

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #



320-80241 Chain of Custody

SAMPLING COMPLETED	DATE <u>10/12/2021</u>	TIME <u>1335</u>	SAMPLING PERFORMED BY <u>Ciara Shirey</u>	RESULTS NEEDED NO LATER THAN <u>Standard TAT</u>
RELEASED BY <u>CS</u>	DATE <u>10/12/2021</u>	TIME <u>1700</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>10/31/21</u> TIME <u>1040</u>
RELEASED BY	DATE	TIME	RECEIVED BY	DATE
RELEASED BY	DATE	TIME	RECEIVED BY	DATE
SHIPPED VIA <u>FedEx</u>	DATE SENT <u>10/12/2021</u>	TIME SENT <u>1700</u>	COOLER #	Page: of



Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 320-80241-1

Login Number: 80241

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Her, David A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

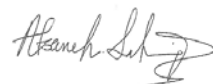
Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-80333-1
Client Project/Site: TRW Microwave

For:

Groundwater & Environmental Services Inc
9655 Granite Ridge Drive
Suite 200
San Diego, California 92123

Attn: Jennifer Clay



*Authorized for release by:
10/28/2021 2:31:55 PM*

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
Afsaneh.Salimpour@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	13
Surrogate Summary	49
QC Sample Results	51
QC Association Summary	72
Lab Chronicle	75
Certification Summary	81
Method Summary	82
Sample Summary	83
Chain of Custody	84
Receipt Checklists	94



Definitions/Glossary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Job ID: 320-80333-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-80333-1

Comments

No additional comments.

Receipt

The samples were received on 10/14/2021 11:52 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

GC/MS VOA

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: J6038-T13A-101121 (320-80333-5). Elevated reporting limits (RLs) are provided.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-536266.

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 and TBA-d9 for the following samples in analytical batch 320-536349 was outside acceptance criteria: J6038-T8B-101221 (320-80333-21), J6038-T7B-101221-2 (320-80333-26), J6038-T7A-101221-1 (320-80333-27) and (MB 320-536349/8). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 for the following samples in analytical batch 320-536349 was outside acceptance criteria: J6038-T8A-101221 (320-80333-22), J6038-T7A-101221-2 (320-80333-28) and J6038-T22B-101221 (320-80333-29). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: J6038-T23B-101221 (320-80333-17), J6038-T10B-101221 (320-80333-18), J6038-T16A-101221 (320-80333-19), J6038-T10C-101221 (320-80333-20), J6038-T11C-101221-1 (320-80333-23), J6038-T11C-101221-2 (320-80333-24), J6038-T7B-101221-1 (320-80333-25), J6038-T7B-101221-2 (320-80333-26), J6038-T7A-101221-1 (320-80333-27) and J6038-T7A-101221-2 (320-80333-28). Elevated reporting limits (RLs) are provided.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-536349.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: J6038-38S-101221 (320-80333-13), J6038-T25BS-101221 (320-80333-14) and J6038-T25BD-101221 (320-80333-15). Elevated reporting limits (RLs) are provided.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-536344.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: J6038-T9A-101121 (320-80333-2), J6038-T15A-101221 (320-80333-9), J6038-T17B-101221 (320-80333-11) and J6038-T4B-101221 (320-80333-12). Elevated reporting limits (RLs) are provided.

Method 8260B: Bromomethane recovery in the ICV associated with this batch was greater than the limit of +/- 25%D, at 27.5%. Per SOP WS-MS-0007 Rev.5.11 section 10.6.10, up to three gases are permitted to have recoveries at <30%D in the ICV; therefore, the data has been reported.

J6038-T9A-101121 (320-80333-2), TRIPBLANK-J6038-101221 (320-80333-8), J6038-T15A-101221 (320-80333-9), J6038-T17A-101221 (320-80333-10), J6038-T17B-101221 (320-80333-11) and J6038-T4B-101221 (320-80333-12)

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-536356.

Case Narrative

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Job ID: 320-80333-1 (Continued)

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 for the following samples were outside acceptance criteria: J6038-T24B-101221 (320-80333-16) and (MB 320-536611/8). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-536611.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: J6038-T25BS-101221 (320-80333-14), J6038-T8B-101221 (320-80333-21), J6038-T22B-101221 (320-80333-29), J6038-T5B-101321-1 (320-80333-31), J6038-T5B-101321-2 (320-80333-32), J6038-T21B-101321 (320-80333-33) and J6038-T20B-101321 (320-80333-35). Elevated reporting limits (RLs) are provided.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-536913.

Method 8260B: Internal standard (ISTD) response for TBA-d9 for the following sample was outside acceptance criteria: (CCV 320-536913/2). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 and TBA-d9 for the following sample was outside acceptance criteria: J6038-T5B-101321-2 (320-80333-32). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 320-537169 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 for the following samples in analytical batch 320-537169 was outside acceptance criteria: (CCV 320-537169/2). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: J6038-T5B-101321-1 (320-80333-31). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: TRIPBLANK-J6038-101121

Lab Sample ID: 320-80333-1

No Detections.

Client Sample ID: J6038-T9A-101121

Lab Sample ID: 320-80333-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.28	J	0.50	0.070	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	3.3		0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.40	J	0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.59		0.50	0.13	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.6		0.50	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.1		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	48		0.50	0.10	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	110		1.0	0.36	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T19A-101121

Lab Sample ID: 320-80333-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.37	J	0.50	0.070	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.2		0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.43	J	0.50	0.10	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	6.8		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.92		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	0.20	J	0.50	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	17		0.50	0.18	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T14A-101121

Lab Sample ID: 320-80333-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.11	J	0.50	0.070	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.2		0.50	0.097	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.15	J	0.50	0.083	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.42	J	0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.31	J	0.50	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	49		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.9		0.50	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.65		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	29		0.50	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	27		0.50	0.18	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T13A-101121

Lab Sample ID: 320-80333-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.21	J	1.0	0.19	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	0.24	J	1.0	0.20	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	29		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	0.67	J	1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	61		1.0	0.20	ug/L	2		8260B	Total/NA
Vinyl chloride	2.4		1.0	0.36	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T23A-101121

Lab Sample ID: 320-80333-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.13	J	0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.19	J	0.50	0.10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T23A-101121 (Continued)

Lab Sample ID: 320-80333-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.1		0.50	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.69		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	53		0.50	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	6.8		0.50	0.18	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T25A-101121

Lab Sample ID: 320-80333-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.16	J	1.0	0.12	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.0		0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.40	J	0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.48	J	0.50	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	60		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.9		0.50	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.6		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	71		0.50	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	4.7		0.50	0.18	ug/L	1		8260B	Total/NA

Client Sample ID: TRIPBLANK-J6038-101221

Lab Sample ID: 320-80333-8

No Detections.

Client Sample ID: J6038-T15A-101221

Lab Sample ID: 320-80333-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.1		1.0	0.19	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	0.28	J	1.0	0.20	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	0.47	J	1.0	0.26	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	61		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	1.6		1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	78		1.0	0.20	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T17A-101221

Lab Sample ID: 320-80333-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.21	J	1.0	0.12	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.18	J	0.50	0.10	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	8.2		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		0.50	0.11	ug/L	1		8260B	Total/NA
Methylene Chloride	0.22	J	1.0	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.81		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	40		0.50	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	6.2		0.50	0.18	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T17B-101221

Lab Sample ID: 320-80333-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.97	J	2.0	0.52	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	240		2.0	0.72	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	1.4	J	2.0	0.44	ug/L	4		8260B	Total/NA
Tetrachloroethene	0.71	J	2.0	0.40	ug/L	4		8260B	Total/NA
Trichloroethene	160		2.0	0.40	ug/L	4		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T17B-101221 (Continued)

Lab Sample ID: 320-80333-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	6.3		2.0	0.68	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-T4B-101221

Lab Sample ID: 320-80333-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		2.0	0.72	ug/L	4		8260B	Total/NA
Trichloroethene	3.6		2.0	0.40	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-38S-101221

Lab Sample ID: 320-80333-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.28	J	1.0	0.26	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	88		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	0.70	J	1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	0.78	J	1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	58		1.0	0.20	ug/L	2		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0		1.0	0.34	ug/L	2		8260B	Total/NA
Vinyl chloride	1.3		1.0	0.36	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80333-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	400		5.0	1.8	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	5.2		5.0	1.1	ug/L	10		8260B	Total/NA
Trichloroethene	11		5.0	1.0	ug/L	10		8260B	Total/NA
Vinyl chloride	42		5.0	1.8	ug/L	10		8260B	Total/NA
Methane	120		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	1.4		1.0	0.29	ug/L	1		RSK-175	Total/NA
Ethylene	2.9		1.0	0.27	ug/L	1		RSK-175	Total/NA
Total Organic Carbon	0.95	J	1.0	0.35	mg/L	1		5310C-2011	Total/NA
Total Alkalinity	490		5.0	5.0	mg/L	1		SM 2320B	Total/NA

Client Sample ID: J6038-T25BD-101221

Lab Sample ID: 320-80333-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.9		2.0	0.72	ug/L	4		8260B	Total/NA
Tetrachloroethene	3.4		2.0	0.40	ug/L	4		8260B	Total/NA
Trichloroethene	170		2.0	0.40	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-T24B-101221

Lab Sample ID: 320-80333-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.14	J	0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.24	J	0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.36	J	0.50	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	49		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.63		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	7.8		0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T23B-101221

Lab Sample ID: 320-80333-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	2.6		2.0	0.39	ug/L	4		8260B	Total/NA
1,1-Dichloroethene	0.75	J	2.0	0.52	ug/L	4		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T23B-101221 (Continued)

Lab Sample ID: 320-80333-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		2.0	0.72	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	2.7		2.0	0.44	ug/L	4		8260B	Total/NA
Tetrachloroethene	1.2	J	2.0	0.40	ug/L	4		8260B	Total/NA
Trichloroethene	70		2.0	0.40	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80333-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	2.9		1.0	0.19	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	0.46	J	1.0	0.20	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	0.38	J	1.0	0.26	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	93		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	0.31	J	1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	22		1.0	0.20	ug/L	2		8260B	Total/NA
Vinyl chloride	51		1.0	0.36	ug/L	2		8260B	Total/NA
Methane	860		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	8.2		1.0	0.29	ug/L	1		RSK-175	Total/NA
Ethylene	3.5		1.0	0.27	ug/L	1		RSK-175	Total/NA
Total Organic Carbon	1.9		1.0	0.35	mg/L	1		5310C-2011	Total/NA
Total Alkalinity	420		5.0	5.0	mg/L	1		SM 2320B	Total/NA

Client Sample ID: J6038-T16A-101221

Lab Sample ID: 320-80333-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.4		1.0	0.19	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	0.28	J	1.0	0.20	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	0.31	J	1.0	0.26	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	61		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	1.1		1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	54		1.0	0.20	ug/L	2		8260B	Total/NA
Vinyl chloride	0.51	J	1.0	0.36	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T10C-101221

Lab Sample ID: 320-80333-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.3	J	10	3.2	ug/L	10		8260B	Total/NA
1,1-Dichloroethane	2.1	J	5.0	1.3	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	290		5.0	1.8	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	3.1	J	5.0	1.1	ug/L	10		8260B	Total/NA
Trichloroethene	240		5.0	1.0	ug/L	10		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	55		5.0	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80333-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	5.2		0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.72		0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.8		0.50	0.13	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	5.6		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	18		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0		0.50	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T8B-101221 (Continued)

Lab Sample ID: 320-80333-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	11		0.50	0.18	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	410		5.0	1.8	ug/L	10		8260B	Total/NA
Methane	270		1.0	0.17	ug/L	1		RSK-175	Total/NA
Ethane	1.8		1.0	0.29	ug/L	1		RSK-175	Total/NA
Ethylene	0.28	J	1.0	0.27	ug/L	1		RSK-175	Total/NA
Total Organic Carbon	0.74	J	1.0	0.35	mg/L	1		5310C-2011	Total/NA
Total Alkalinity	390		5.0	5.0	mg/L	1		SM 2320B	Total/NA

Client Sample ID: J6038-T8A-101221

Lab Sample ID: 320-80333-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.18	J	1.0	0.12	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.30	J	0.50	0.097	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.24	J	0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.27	J	0.50	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	21		0.50	0.18	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		0.50	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.98		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	78		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.81		0.50	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.39	J	0.50	0.18	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T11C-101221-1

Lab Sample ID: 320-80333-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4	J	2.0	0.52	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	17		2.0	0.72	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	0.57	J	2.0	0.44	ug/L	4		8260B	Total/NA
Trichloroethene	200		2.0	0.40	ug/L	4		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0		2.0	0.68	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-T11C-101221-2

Lab Sample ID: 320-80333-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.3	J	4.0	1.3	ug/L	4		8260B	Total/NA
1,1-Dichloroethene	1.6	J	2.0	0.52	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	18		2.0	0.72	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	0.55	J	2.0	0.44	ug/L	4		8260B	Total/NA
Trichloroethene	200		2.0	0.40	ug/L	4		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6		2.0	0.68	ug/L	4		8260B	Total/NA
Vinyl chloride	0.72	J	2.0	0.72	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-T7B-101221-1

Lab Sample ID: 320-80333-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.3	J	2.0	0.39	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	7.0		2.0	0.72	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	1.2	J	2.0	0.44	ug/L	4		8260B	Total/NA
Trichloroethene	130		2.0	0.40	ug/L	4		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.7		2.0	0.68	ug/L	4		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T7B-101221-2

Lab Sample ID: 320-80333-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.2	J	2.0	0.39	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	7.1		2.0	0.72	ug/L	4		8260B	Total/NA
trans-1,2-Dichloroethene	1.3	J	2.0	0.44	ug/L	4		8260B	Total/NA
Tetrachloroethene	0.46	J	2.0	0.40	ug/L	4		8260B	Total/NA
Trichloroethene	130		2.0	0.40	ug/L	4		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9		2.0	0.68	ug/L	4		8260B	Total/NA

Client Sample ID: J6038-T7A-101221-1

Lab Sample ID: 320-80333-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	39		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	1.0		1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	95		1.0	0.20	ug/L	2		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2		1.0	0.34	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T7A-101221-2

Lab Sample ID: 320-80333-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	38		1.0	0.36	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.22	ug/L	2		8260B	Total/NA
Tetrachloroethene	1.0		1.0	0.20	ug/L	2		8260B	Total/NA
Trichloroethene	94		1.0	0.20	ug/L	2		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2		1.0	0.34	ug/L	2		8260B	Total/NA

Client Sample ID: J6038-T22B-101221

Lab Sample ID: 320-80333-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.12	J	1.0	0.12	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.2		0.50	0.097	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.085	J	0.50	0.083	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.36	J	0.50	0.10	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.91		0.50	0.13	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.2		0.50	0.11	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.5		0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	78		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.17	J	0.50	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.52		0.50	0.18	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	140		2.0	0.72	ug/L	4		8260B	Total/NA

Client Sample ID: TRIPBLANK-J6038-101321

Lab Sample ID: 320-80333-30

No Detections.

Client Sample ID: J6038-T5B-101321-1

Lab Sample ID: 320-80333-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	95		10	3.6	ug/L	20		8260B	Total/NA
Tetrachloroethene	6.5	J	10	2.0	ug/L	20		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	200		10	3.4	ug/L	20		8260B	Total/NA
Trichloroethene - DL	1400		20	4.0	ug/L	40		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T5B-101321-2

Lab Sample ID: 320-80333-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	45		10	3.6	ug/L	20		8260B	Total/NA
Tetrachloroethene	2.7	J	10	2.0	ug/L	20		8260B	Total/NA
Trichloroethene	870		10	2.0	ug/L	20		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	93		10	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: J6038-T21B-101321

Lab Sample ID: 320-80333-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260		5.0	1.8	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	1.7	J	5.0	1.1	ug/L	10		8260B	Total/NA
Trichloroethene	410		5.0	1.0	ug/L	10		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	14		5.0	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: J6038-T18B-101321

Lab Sample ID: 320-80333-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		0.50	0.18	ug/L	1		8260B	Total/NA
Trichloroethene	16		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.87		0.50	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T20B-101321

Lab Sample ID: 320-80333-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.7	J	5.0	1.3	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	370		5.0	1.8	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	2.9	J	5.0	1.1	ug/L	10		8260B	Total/NA
Trichloroethene	170		5.0	1.0	ug/L	10		8260B	Total/NA
Vinyl chloride	6.3		5.0	1.8	ug/L	10		8260B	Total/NA

Client Sample ID: J6038-T12C-101321

Lab Sample ID: 320-80333-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.54		0.50	0.18	ug/L	1		8260B	Total/NA
Trichloroethene	1.9		0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T9C-101321

Lab Sample ID: 320-80333-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.31	J	0.50	0.18	ug/L	1		8260B	Total/NA
Trichloroethene	0.31	J	0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T19B-101321

Lab Sample ID: 320-80333-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.23	J	0.50	0.10	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.3		0.50	0.18	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.17	J	0.50	0.10	ug/L	1		8260B	Total/NA
Trichloroethene	50		0.50	0.10	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.98		0.50	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: TRIPBLANK-J6038-101121

Lab Sample ID: 320-80333-1

Date Collected: 10/11/21 08:00

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 00:43	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 00:43	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 00:43	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 00:43	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 00:43	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 00:43	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 00:43	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 00:43	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 00:43	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/22/21 00:43	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 00:43	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 00:43	1
EDB	ND		0.50	0.12	ug/L			10/22/21 00:43	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 00:43	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/22/21 00:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 00:43	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 00:43	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/22/21 00:43	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/22/21 00:43	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 00:43	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 00:43	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 00:43	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 00:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 00:43	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 00:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 00:43	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 00:43	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 00:43	1
Trichloroethene	ND		0.50	0.10	ug/L			10/22/21 00:43	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 00:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 00:43	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/22/21 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		74 - 120		10/22/21 00:43	1
Dibromofluoromethane (Surr)	103		80 - 123		10/22/21 00:43	1
1,2-Dichloroethane-d4 (Surr)	110		72 - 123		10/22/21 00:43	1
Toluene-d8 (Surr)	100		78 - 120		10/22/21 00:43	1

Client Sample ID: J6038-T9A-101121

Lab Sample ID: 320-80333-2

Date Collected: 10/11/21 11:46

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 01:52	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 01:52	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 01:52	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 01:52	1
Chlorobenzene	0.28	J	0.50	0.070	ug/L			10/22/21 01:52	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T9A-101121

Lab Sample ID: 320-80333-2

Date Collected: 10/11/21 11:46

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 01:52	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 01:52	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 01:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 01:52	1
1,2-Dichlorobenzene	3.3		0.50	0.097	ug/L			10/22/21 01:52	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 01:52	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 01:52	1
EDB	ND		0.50	0.12	ug/L			10/22/21 01:52	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 01:52	1
1,1-Dichloroethane	0.40	J	0.50	0.10	ug/L			10/22/21 01:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 01:52	1
1,1-Dichloroethene	0.59		0.50	0.13	ug/L			10/22/21 01:52	1
trans-1,2-Dichloroethene	2.6		0.50	0.11	ug/L			10/22/21 01:52	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 01:52	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 01:52	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 01:52	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 01:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 01:52	1
Tetrachloroethene	1.1		0.50	0.10	ug/L			10/22/21 01:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 01:52	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 01:52	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 01:52	1
Trichloroethene	48		0.50	0.10	ug/L			10/22/21 01:52	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 01:52	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/22/21 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		74 - 120		10/22/21 01:52	1
Dibromofluoromethane (Surr)	103		80 - 123		10/22/21 01:52	1
1,2-Dichloroethane-d4 (Surr)	114		72 - 123		10/22/21 01:52	1
Toluene-d8 (Surr)	100		78 - 120		10/22/21 01:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	110		1.0	0.36	ug/L			10/22/21 20:03	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 120		10/22/21 20:03	2
Dibromofluoromethane (Surr)	100		80 - 123		10/22/21 20:03	2
1,2-Dichloroethane-d4 (Surr)	89		72 - 123		10/22/21 20:03	2
Toluene-d8 (Surr)	97		78 - 120		10/22/21 20:03	2

Client Sample ID: J6038-T19A-101121

Lab Sample ID: 320-80333-3

Date Collected: 10/11/21 13:08

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 02:16	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 02:16	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T19A-101121

Lab Sample ID: 320-80333-3

Date Collected: 10/11/21 13:08

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 02:16	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 02:16	1
Chlorobenzene	0.37	J	0.50	0.070	ug/L			10/22/21 02:16	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 02:16	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 02:16	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 02:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 02:16	1
1,2-Dichlorobenzene	1.2		0.50	0.097	ug/L			10/22/21 02:16	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 02:16	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 02:16	1
EDB	ND		0.50	0.12	ug/L			10/22/21 02:16	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 02:16	1
1,1-Dichloroethane	0.43	J	0.50	0.10	ug/L			10/22/21 02:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 02:16	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 02:16	1
cis-1,2-Dichloroethene	6.8		0.50	0.18	ug/L			10/22/21 02:16	1
trans-1,2-Dichloroethene	0.92		0.50	0.11	ug/L			10/22/21 02:16	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 02:16	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 02:16	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 02:16	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 02:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 02:16	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 02:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 02:16	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 02:16	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 02:16	1
Trichloroethene	0.20	J	0.50	0.10	ug/L			10/22/21 02:16	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 02:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 02:16	1
Vinyl chloride	17		0.50	0.18	ug/L			10/22/21 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		74 - 120		10/22/21 02:16	1
Dibromofluoromethane (Surr)	102		80 - 123		10/22/21 02:16	1
1,2-Dichloroethane-d4 (Surr)	112		72 - 123		10/22/21 02:16	1
Toluene-d8 (Surr)	100		78 - 120		10/22/21 02:16	1

Client Sample ID: J6038-T14A-101121

Lab Sample ID: 320-80333-4

Date Collected: 10/11/21 13:36

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 02:39	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 02:39	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 02:39	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 02:39	1
Chlorobenzene	0.11	J	0.50	0.070	ug/L			10/22/21 02:39	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 02:39	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 02:39	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T14A-101121

Lab Sample ID: 320-80333-4

Date Collected: 10/11/21 13:36

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 02:39	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 02:39	1
1,2-Dichlorobenzene	2.2		0.50	0.097	ug/L			10/22/21 02:39	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 02:39	1
1,4-Dichlorobenzene	0.15	J	0.50	0.083	ug/L			10/22/21 02:39	1
EDB	ND		0.50	0.12	ug/L			10/22/21 02:39	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 02:39	1
1,1-Dichloroethane	0.42	J	0.50	0.10	ug/L			10/22/21 02:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 02:39	1
1,1-Dichloroethene	0.31	J	0.50	0.13	ug/L			10/22/21 02:39	1
cis-1,2-Dichloroethene	49		0.50	0.18	ug/L			10/22/21 02:39	1
trans-1,2-Dichloroethene	1.9		0.50	0.11	ug/L			10/22/21 02:39	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 02:39	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 02:39	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 02:39	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 02:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 02:39	1
Tetrachloroethene	0.65		0.50	0.10	ug/L			10/22/21 02:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 02:39	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 02:39	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 02:39	1
Trichloroethene	29		0.50	0.10	ug/L			10/22/21 02:39	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 02:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 02:39	1
Vinyl chloride	27		0.50	0.18	ug/L			10/22/21 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 120					10/22/21 02:39	1
Dibromofluoromethane (Surr)	106		80 - 123					10/22/21 02:39	1
1,2-Dichloroethane-d4 (Surr)	113		72 - 123					10/22/21 02:39	1
Toluene-d8 (Surr)	100		78 - 120					10/22/21 02:39	1

Client Sample ID: J6038-T13A-101121

Lab Sample ID: 320-80333-5

Date Collected: 10/11/21 14:10

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 05:21	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 05:21	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 05:21	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 05:21	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 05:21	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 05:21	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 05:21	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 05:21	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 05:21	2
1,2-Dichlorobenzene	0.21	J	1.0	0.19	ug/L			10/22/21 05:21	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 05:21	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 05:21	2

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T13A-101121

Lab Sample ID: 320-80333-5

Date Collected: 10/11/21 14:10

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EDB	ND		1.0	0.24	ug/L			10/22/21 05:21	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 05:21	2
1,1-Dichloroethane	0.24	J	1.0	0.20	ug/L			10/22/21 05:21	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 05:21	2
1,1-Dichloroethene	ND		1.0	0.26	ug/L			10/22/21 05:21	2
cis-1,2-Dichloroethene	29		1.0	0.36	ug/L			10/22/21 05:21	2
trans-1,2-Dichloroethene	1.6		1.0	0.22	ug/L			10/22/21 05:21	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 05:21	2
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 05:21	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 05:21	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 05:21	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 05:21	2
Tetrachloroethene	0.67	J	1.0	0.20	ug/L			10/22/21 05:21	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 05:21	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 05:21	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 05:21	2
Trichloroethene	61		1.0	0.20	ug/L			10/22/21 05:21	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 05:21	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			10/22/21 05:21	2
Vinyl chloride	2.4		1.0	0.36	ug/L			10/22/21 05:21	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		74 - 120		10/22/21 05:21	2
Dibromofluoromethane (Surr)	111		80 - 123		10/22/21 05:21	2
1,2-Dichloroethane-d4 (Surr)	118		72 - 123		10/22/21 05:21	2
Toluene-d8 (Surr)	97		78 - 120		10/22/21 05:21	2

Client Sample ID: J6038-T23A-101121

Lab Sample ID: 320-80333-6

Date Collected: 10/11/21 14:40

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 03:02	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 03:02	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 03:02	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 03:02	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 03:02	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 03:02	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 03:02	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 03:02	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 03:02	1
1,2-Dichlorobenzene	0.13	J	0.50	0.097	ug/L			10/22/21 03:02	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 03:02	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 03:02	1
EDB	ND		0.50	0.12	ug/L			10/22/21 03:02	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 03:02	1
1,1-Dichloroethane	0.19	J	0.50	0.10	ug/L			10/22/21 03:02	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 03:02	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 03:02	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T23A-101121

Lab Sample ID: 320-80333-6

Date Collected: 10/11/21 14:40

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	16		0.50	0.18	ug/L			10/22/21 03:02	1
trans-1,2-Dichloroethene	1.1		0.50	0.11	ug/L			10/22/21 03:02	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 03:02	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 03:02	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 03:02	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 03:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 03:02	1
Tetrachloroethene	0.69		0.50	0.10	ug/L			10/22/21 03:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 03:02	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 03:02	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 03:02	1
Trichloroethene	53		0.50	0.10	ug/L			10/22/21 03:02	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 03:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 03:02	1
Vinyl chloride	6.8		0.50	0.18	ug/L			10/22/21 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		74 - 120					10/22/21 03:02	1
Dibromofluoromethane (Surr)	105		80 - 123					10/22/21 03:02	1
1,2-Dichloroethane-d4 (Surr)	115		72 - 123					10/22/21 03:02	1
Toluene-d8 (Surr)	99		78 - 120					10/22/21 03:02	1

Client Sample ID: J6038-T25A-101121

Lab Sample ID: 320-80333-7

Date Collected: 10/11/21 15:07

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 03:25	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 03:25	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 03:25	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 03:25	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 03:25	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 03:25	1
Chloroform	0.16	J	1.0	0.12	ug/L			10/22/21 03:25	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 03:25	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 03:25	1
1,2-Dichlorobenzene	2.0		0.50	0.097	ug/L			10/22/21 03:25	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 03:25	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 03:25	1
EDB	ND		0.50	0.12	ug/L			10/22/21 03:25	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 03:25	1
1,1-Dichloroethane	0.40	J	0.50	0.10	ug/L			10/22/21 03:25	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 03:25	1
1,1-Dichloroethene	0.48	J	0.50	0.13	ug/L			10/22/21 03:25	1
cis-1,2-Dichloroethene	60		0.50	0.18	ug/L			10/22/21 03:25	1
trans-1,2-Dichloroethene	1.9		0.50	0.11	ug/L			10/22/21 03:25	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 03:25	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 03:25	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 03:25	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T25A-101121

Lab Sample ID: 320-80333-7

Date Collected: 10/11/21 15:07

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 03:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 03:25	1
Tetrachloroethene	1.6		0.50	0.10	ug/L			10/22/21 03:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 03:25	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 03:25	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 03:25	1
Trichloroethene	71		0.50	0.10	ug/L			10/22/21 03:25	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 03:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 03:25	1
Vinyl chloride	4.7		0.50	0.18	ug/L			10/22/21 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		74 - 120					10/22/21 03:25	1
Dibromofluoromethane (Surr)	108		80 - 123					10/22/21 03:25	1
1,2-Dichloroethane-d4 (Surr)	118		72 - 123					10/22/21 03:25	1
Toluene-d8 (Surr)	101		78 - 120					10/22/21 03:25	1

Client Sample ID: TRIPBLANK-J6038-101221

Lab Sample ID: 320-80333-8

Date Collected: 10/12/21 08:00

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 13:53	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 13:53	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 13:53	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 13:53	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 13:53	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 13:53	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 13:53	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 13:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 13:53	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/22/21 13:53	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 13:53	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 13:53	1
EDB	ND		0.50	0.12	ug/L			10/22/21 13:53	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 13:53	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/22/21 13:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 13:53	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 13:53	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/22/21 13:53	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/22/21 13:53	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 13:53	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 13:53	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 13:53	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 13:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 13:53	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 13:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 13:53	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 13:53	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: TRIPBLANK-J6038-101221

Lab Sample ID: 320-80333-8

Date Collected: 10/12/21 08:00

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 13:53	1
Trichloroethene	ND		0.50	0.10	ug/L			10/22/21 13:53	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 13:53	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/22/21 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 120		10/22/21 13:53	1
Dibromofluoromethane (Surr)	102		80 - 123		10/22/21 13:53	1
1,2-Dichloroethane-d4 (Surr)	90		72 - 123		10/22/21 13:53	1
Toluene-d8 (Surr)	96		78 - 120		10/22/21 13:53	1

Client Sample ID: J6038-T15A-101221

Lab Sample ID: 320-80333-9

Date Collected: 10/12/21 08:49

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 20:26	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 20:26	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 20:26	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 20:26	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 20:26	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 20:26	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 20:26	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 20:26	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 20:26	2
1,2-Dichlorobenzene	1.1		1.0	0.19	ug/L			10/22/21 20:26	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 20:26	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 20:26	2
EDB	ND		1.0	0.24	ug/L			10/22/21 20:26	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 20:26	2
1,1-Dichloroethane	0.28	J	1.0	0.20	ug/L			10/22/21 20:26	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 20:26	2
1,1-Dichloroethene	0.47	J	1.0	0.26	ug/L			10/22/21 20:26	2
cis-1,2-Dichloroethene	61		1.0	0.36	ug/L			10/22/21 20:26	2
trans-1,2-Dichloroethene	2.3		1.0	0.22	ug/L			10/22/21 20:26	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 20:26	2
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 20:26	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 20:26	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 20:26	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 20:26	2
Tetrachloroethene	1.6		1.0	0.20	ug/L			10/22/21 20:26	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 20:26	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 20:26	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 20:26	2
Trichloroethene	78		1.0	0.20	ug/L			10/22/21 20:26	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 20:26	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			10/22/21 20:26	2
Vinyl chloride	ND		1.0	0.36	ug/L			10/22/21 20:26	2

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T15A-101221

Lab Sample ID: 320-80333-9

Date Collected: 10/12/21 08:49

Matrix: Water

Date Received: 10/14/21 11:52

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 120		10/22/21 20:26	2
Dibromofluoromethane (Surr)	100		80 - 123		10/22/21 20:26	2
1,2-Dichloroethane-d4 (Surr)	86		72 - 123		10/22/21 20:26	2
Toluene-d8 (Surr)	95		78 - 120		10/22/21 20:26	2

Client Sample ID: J6038-T17A-101221

Lab Sample ID: 320-80333-10

Date Collected: 10/12/21 09:20

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 19:40	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 19:40	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 19:40	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 19:40	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 19:40	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 19:40	1
Chloroform	0.21	J	1.0	0.12	ug/L			10/22/21 19:40	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 19:40	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 19:40	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/22/21 19:40	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 19:40	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 19:40	1
EDB	ND		0.50	0.12	ug/L			10/22/21 19:40	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 19:40	1
1,1-Dichloroethane	0.18	J	0.50	0.10	ug/L			10/22/21 19:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 19:40	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 19:40	1
cis-1,2-Dichloroethene	8.2		0.50	0.18	ug/L			10/22/21 19:40	1
trans-1,2-Dichloroethene	1.6		0.50	0.11	ug/L			10/22/21 19:40	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 19:40	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 19:40	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 19:40	1
Methylene Chloride	0.22	J	1.0	0.16	ug/L			10/22/21 19:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 19:40	1
Tetrachloroethene	0.81		0.50	0.10	ug/L			10/22/21 19:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 19:40	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 19:40	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 19:40	1
Trichloroethene	40		0.50	0.10	ug/L			10/22/21 19:40	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 19:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 19:40	1
Vinyl chloride	6.2		0.50	0.18	ug/L			10/22/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 120		10/22/21 19:40	1
Dibromofluoromethane (Surr)	100		80 - 123		10/22/21 19:40	1
1,2-Dichloroethane-d4 (Surr)	85		72 - 123		10/22/21 19:40	1
Toluene-d8 (Surr)	95		78 - 120		10/22/21 19:40	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T17B-101221

Lab Sample ID: 320-80333-11

Date Collected: 10/12/21 09:45

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 20:49	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 20:49	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 20:49	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 20:49	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 20:49	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 20:49	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 20:49	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 20:49	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 20:49	4
1,2-Dichlorobenzene	ND		2.0	0.39	ug/L			10/22/21 20:49	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 20:49	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 20:49	4
EDB	ND		2.0	0.48	ug/L			10/22/21 20:49	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 20:49	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 20:49	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 20:49	4
1,1-Dichloroethene	0.97	J	2.0	0.52	ug/L			10/22/21 20:49	4
cis-1,2-Dichloroethene	240		2.0	0.72	ug/L			10/22/21 20:49	4
trans-1,2-Dichloroethene	1.4	J	2.0	0.44	ug/L			10/22/21 20:49	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 20:49	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 20:49	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 20:49	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 20:49	4
1,1,1,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 20:49	4
Tetrachloroethene	0.71	J	2.0	0.40	ug/L			10/22/21 20:49	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 20:49	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 20:49	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 20:49	4
Trichloroethene	160		2.0	0.40	ug/L			10/22/21 20:49	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 20:49	4
1,1,2-Trichloro-1,2,2-trifluoroethane	6.3		2.0	0.68	ug/L			10/22/21 20:49	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 20:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		74 - 120					10/22/21 20:49	4
Dibromofluoromethane (Surr)	96		80 - 123					10/22/21 20:49	4
1,2-Dichloroethane-d4 (Surr)	86		72 - 123					10/22/21 20:49	4
Toluene-d8 (Surr)	95		78 - 120					10/22/21 20:49	4

Client Sample ID: J6038-T4B-101221

Lab Sample ID: 320-80333-12

Date Collected: 10/12/21 10:17

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 21:12	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 21:12	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 21:12	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 21:12	4

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T4B-101221

Lab Sample ID: 320-80333-12

Date Collected: 10/12/21 10:17

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 21:12	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 21:12	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 21:12	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 21:12	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 21:12	4
1,2-Dichlorobenzene	ND		2.0	0.39	ug/L			10/22/21 21:12	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 21:12	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 21:12	4
EDB	ND		2.0	0.48	ug/L			10/22/21 21:12	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 21:12	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 21:12	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 21:12	4
1,1-Dichloroethene	ND		2.0	0.52	ug/L			10/22/21 21:12	4
cis-1,2-Dichloroethene	140		2.0	0.72	ug/L			10/22/21 21:12	4
trans-1,2-Dichloroethene	ND		2.0	0.44	ug/L			10/22/21 21:12	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 21:12	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 21:12	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 21:12	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 21:12	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 21:12	4
Tetrachloroethene	ND		2.0	0.40	ug/L			10/22/21 21:12	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 21:12	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 21:12	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 21:12	4
Trichloroethene	3.6		2.0	0.40	ug/L			10/22/21 21:12	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 21:12	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.68	ug/L			10/22/21 21:12	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 21:12	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		74 - 120					10/22/21 21:12	4
Dibromofluoromethane (Surr)	99		80 - 123					10/22/21 21:12	4
1,2-Dichloroethane-d4 (Surr)	88		72 - 123					10/22/21 21:12	4
Toluene-d8 (Surr)	96		78 - 120					10/22/21 21:12	4

Client Sample ID: J6038-38S-101221

Lab Sample ID: 320-80333-13

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 17:06	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 17:06	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 17:06	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 17:06	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 17:06	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 17:06	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 17:06	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 17:06	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 17:06	2

Eurolins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-38S-101221

Lab Sample ID: 320-80333-13

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/21 17:06	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 17:06	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 17:06	2
EDB	ND		1.0	0.24	ug/L			10/22/21 17:06	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 17:06	2
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/22/21 17:06	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 17:06	2
1,1-Dichloroethene	0.28	J	1.0	0.26	ug/L			10/22/21 17:06	2
cis-1,2-Dichloroethene	88		1.0	0.36	ug/L			10/22/21 17:06	2
trans-1,2-Dichloroethene	0.70	J	1.0	0.22	ug/L			10/22/21 17:06	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 17:06	2
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 17:06	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 17:06	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 17:06	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 17:06	2
Tetrachloroethene	0.78	J	1.0	0.20	ug/L			10/22/21 17:06	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 17:06	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 17:06	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 17:06	2
Trichloroethene	58		1.0	0.20	ug/L			10/22/21 17:06	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 17:06	2
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0		1.0	0.34	ug/L			10/22/21 17:06	2
Vinyl chloride	1.3		1.0	0.36	ug/L			10/22/21 17:06	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		74 - 120		10/22/21 17:06	2
Dibromofluoromethane (Surr)	107		80 - 123		10/22/21 17:06	2
1,2-Dichloroethane-d4 (Surr)	117		72 - 123		10/22/21 17:06	2
Toluene-d8 (Surr)	103		78 - 120		10/22/21 17:06	2

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80333-14

Date Collected: 10/12/21 11:17

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		5.0	1.4	ug/L			10/25/21 18:05	10
Bromoform	ND		10	1.9	ug/L			10/25/21 18:05	10
Bromomethane	ND		10	2.1	ug/L			10/25/21 18:05	10
Carbon tetrachloride	ND		5.0	1.2	ug/L			10/25/21 18:05	10
Chlorobenzene	ND		5.0	0.70	ug/L			10/25/21 18:05	10
Chloroethane	ND		10	2.4	ug/L			10/25/21 18:05	10
Chloroform	ND		10	1.2	ug/L			10/25/21 18:05	10
Chloromethane	ND		10	2.6	ug/L			10/25/21 18:05	10
Chlorodibromomethane	ND		5.0	1.6	ug/L			10/25/21 18:05	10
1,2-Dichlorobenzene	ND		5.0	0.97	ug/L			10/25/21 18:05	10
1,3-Dichlorobenzene	ND		5.0	0.86	ug/L			10/25/21 18:05	10
1,4-Dichlorobenzene	ND		5.0	0.83	ug/L			10/25/21 18:05	10
EDB	ND		5.0	1.2	ug/L			10/25/21 18:05	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80333-14

Date Collected: 10/12/21 11:17

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		10	3.2	ug/L			10/25/21 18:05	10
1,1-Dichloroethane	ND		5.0	1.0	ug/L			10/25/21 18:05	10
1,2-Dichloroethane	ND		5.0	1.4	ug/L			10/25/21 18:05	10
1,1-Dichloroethene	ND		5.0	1.3	ug/L			10/25/21 18:05	10
cis-1,2-Dichloroethene	400		5.0	1.8	ug/L			10/25/21 18:05	10
trans-1,2-Dichloroethene	5.2		5.0	1.1	ug/L			10/25/21 18:05	10
1,2-Dichloropropane	ND		5.0	1.5	ug/L			10/25/21 18:05	10
cis-1,3-Dichloropropane	ND		5.0	1.5	ug/L			10/25/21 18:05	10
trans-1,3-Dichloropropene	ND		5.0	1.6	ug/L			10/25/21 18:05	10
Methylene Chloride	ND		10	1.6	ug/L			10/25/21 18:05	10
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/25/21 18:05	10
Tetrachloroethene	ND		5.0	1.0	ug/L			10/25/21 18:05	10
1,2,4-Trichlorobenzene	ND		10	2.5	ug/L			10/25/21 18:05	10
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			10/25/21 18:05	10
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/25/21 18:05	10
Trichloroethene	11		5.0	1.0	ug/L			10/25/21 18:05	10
Trichlorofluoromethane	ND		10	1.3	ug/L			10/25/21 18:05	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.7	ug/L			10/25/21 18:05	10
Vinyl chloride	42		5.0	1.8	ug/L			10/25/21 18:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		74 - 120		10/25/21 18:05	10
Dibromofluoromethane (Surr)	106		80 - 123		10/25/21 18:05	10
1,2-Dichloroethane-d4 (Surr)	117		72 - 123		10/25/21 18:05	10
Toluene-d8 (Surr)	103		78 - 120		10/25/21 18:05	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	120		1.0	0.17	ug/L			10/20/21 21:14	1
Ethane	1.4		1.0	0.29	ug/L			10/20/21 21:14	1
Ethylene	2.9		1.0	0.27	ug/L			10/20/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	108		60 - 140		10/20/21 21:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.95	J	1.0	0.35	mg/L			10/21/21 08:14	1
Total Alkalinity	490		5.0	5.0	mg/L			10/15/21 17:25	1

Client Sample ID: J6038-T25BD-101221

Lab Sample ID: 320-80333-15

Date Collected: 10/12/21 11:44

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 17:52	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 17:52	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 17:52	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 17:52	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 17:52	4

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T25BD-101221

Lab Sample ID: 320-80333-15

Date Collected: 10/12/21 11:44

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 17:52	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 17:52	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 17:52	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 17:52	4
1,2-Dichlorobenzene	ND		2.0	0.39	ug/L			10/22/21 17:52	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 17:52	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 17:52	4
EDB	ND		2.0	0.48	ug/L			10/22/21 17:52	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 17:52	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 17:52	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 17:52	4
1,1-Dichloroethene	ND		2.0	0.52	ug/L			10/22/21 17:52	4
cis-1,2-Dichloroethene	9.9		2.0	0.72	ug/L			10/22/21 17:52	4
trans-1,2-Dichloroethene	ND		2.0	0.44	ug/L			10/22/21 17:52	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 17:52	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 17:52	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 17:52	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 17:52	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 17:52	4
Tetrachloroethene	3.4		2.0	0.40	ug/L			10/22/21 17:52	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 17:52	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 17:52	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 17:52	4
Trichloroethene	170		2.0	0.40	ug/L			10/22/21 17:52	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 17:52	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.68	ug/L			10/22/21 17:52	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 17:52	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		74 - 120		10/22/21 17:52	4
Dibromofluoromethane (Surr)	103		80 - 123		10/22/21 17:52	4
1,2-Dichloroethane-d4 (Surr)	114		72 - 123		10/22/21 17:52	4
Toluene-d8 (Surr)	101		78 - 120		10/22/21 17:52	4

Client Sample ID: J6038-T24B-101221

Lab Sample ID: 320-80333-16

Date Collected: 10/12/21 11:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/23/21 18:20	1
Bromoform	ND		1.0	0.19	ug/L			10/23/21 18:20	1
Bromomethane	ND		1.0	0.21	ug/L			10/23/21 18:20	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/23/21 18:20	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/23/21 18:20	1
Chloroethane	ND		1.0	0.24	ug/L			10/23/21 18:20	1
Chloroform	ND		1.0	0.12	ug/L			10/23/21 18:20	1
Chloromethane	ND		1.0	0.26	ug/L			10/23/21 18:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/23/21 18:20	1
1,2-Dichlorobenzene	0.14	J	0.50	0.097	ug/L			10/23/21 18:20	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T24B-101221

Lab Sample ID: 320-80333-16

Date Collected: 10/12/21 11:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/23/21 18:20	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/23/21 18:20	1
EDB	ND		0.50	0.12	ug/L			10/23/21 18:20	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/23/21 18:20	1
1,1-Dichloroethane	0.24	J	0.50	0.10	ug/L			10/23/21 18:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/23/21 18:20	1
1,1-Dichloroethene	0.36	J	0.50	0.13	ug/L			10/23/21 18:20	1
cis-1,2-Dichloroethene	49		0.50	0.18	ug/L			10/23/21 18:20	1
trans-1,2-Dichloroethene	0.63		0.50	0.11	ug/L			10/23/21 18:20	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/23/21 18:20	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/23/21 18:20	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/23/21 18:20	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/23/21 18:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/23/21 18:20	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/23/21 18:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/23/21 18:20	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/23/21 18:20	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/23/21 18:20	1
Trichloroethene	7.8		0.50	0.10	ug/L			10/23/21 18:20	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/23/21 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/23/21 18:20	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/23/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 120		10/23/21 18:20	1
Dibromofluoromethane (Surr)	85		80 - 123		10/23/21 18:20	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 123		10/23/21 18:20	1
Toluene-d8 (Surr)	89		78 - 120		10/23/21 18:20	1

Client Sample ID: J6038-T23B-101221

Lab Sample ID: 320-80333-17

Date Collected: 10/12/21 11:01

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 18:06	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 18:06	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 18:06	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 18:06	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 18:06	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 18:06	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 18:06	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 18:06	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 18:06	4
1,2-Dichlorobenzene	2.6		2.0	0.39	ug/L			10/22/21 18:06	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 18:06	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 18:06	4
EDB	ND		2.0	0.48	ug/L			10/22/21 18:06	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 18:06	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 18:06	4

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T23B-101221

Lab Sample ID: 320-80333-17

Date Collected: 10/12/21 11:01

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 18:06	4
1,1-Dichloroethene	0.75	J	2.0	0.52	ug/L			10/22/21 18:06	4
cis-1,2-Dichloroethene	120		2.0	0.72	ug/L			10/22/21 18:06	4
trans-1,2-Dichloroethene	2.7		2.0	0.44	ug/L			10/22/21 18:06	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 18:06	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 18:06	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 18:06	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 18:06	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 18:06	4
Tetrachloroethene	1.2	J	2.0	0.40	ug/L			10/22/21 18:06	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 18:06	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 18:06	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 18:06	4
Trichloroethene	70		2.0	0.40	ug/L			10/22/21 18:06	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 18:06	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.68	ug/L			10/22/21 18:06	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 18:06	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 120		10/22/21 18:06	4
Dibromofluoromethane (Surr)	87		80 - 123		10/22/21 18:06	4
1,2-Dichloroethane-d4 (Surr)	94		72 - 123		10/22/21 18:06	4
Toluene-d8 (Surr)	88		78 - 120		10/22/21 18:06	4

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80333-18

Date Collected: 10/12/21 09:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 15:50	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 15:50	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 15:50	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 15:50	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 15:50	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 15:50	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 15:50	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 15:50	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 15:50	2
1,2-Dichlorobenzene	2.9		1.0	0.19	ug/L			10/22/21 15:50	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 15:50	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 15:50	2
EDB	ND		1.0	0.24	ug/L			10/22/21 15:50	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 15:50	2
1,1-Dichloroethane	0.46	J	1.0	0.20	ug/L			10/22/21 15:50	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 15:50	2
1,1-Dichloroethene	0.38	J	1.0	0.26	ug/L			10/22/21 15:50	2
cis-1,2-Dichloroethene	93		1.0	0.36	ug/L			10/22/21 15:50	2
trans-1,2-Dichloroethene	2.3		1.0	0.22	ug/L			10/22/21 15:50	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 15:50	2

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80333-18

Date Collected: 10/12/21 09:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 15:50	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 15:50	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 15:50	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 15:50	2
Tetrachloroethene	0.31	J	1.0	0.20	ug/L			10/22/21 15:50	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 15:50	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 15:50	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 15:50	2
Trichloroethene	22		1.0	0.20	ug/L			10/22/21 15:50	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 15:50	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			10/22/21 15:50	2
Vinyl chloride	51		1.0	0.36	ug/L			10/22/21 15:50	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		74 - 120					10/22/21 15:50	2
Dibromofluoromethane (Surr)	87		80 - 123					10/22/21 15:50	2
1,2-Dichloroethane-d4 (Surr)	94		72 - 123					10/22/21 15:50	2
Toluene-d8 (Surr)	87		78 - 120					10/22/21 15:50	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	860		1.0	0.17	ug/L			10/20/21 21:31	1
Ethane	8.2		1.0	0.29	ug/L			10/20/21 21:31	1
Ethylene	3.5		1.0	0.27	ug/L			10/20/21 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	107		60 - 140					10/20/21 21:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.9		1.0	0.35	mg/L			10/21/21 09:14	1
Total Alkalinity	420		5.0	5.0	mg/L			10/15/21 17:35	1

Client Sample ID: J6038-T16A-101221

Lab Sample ID: 320-80333-19

Date Collected: 10/12/21 08:55

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 16:13	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 16:13	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 16:13	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 16:13	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 16:13	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 16:13	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 16:13	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 16:13	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 16:13	2
1,2-Dichlorobenzene	1.4		1.0	0.19	ug/L			10/22/21 16:13	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 16:13	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 16:13	2

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T16A-101221

Lab Sample ID: 320-80333-19

Date Collected: 10/12/21 08:55

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EDB	ND		1.0	0.24	ug/L			10/22/21 16:13	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 16:13	2
1,1-Dichloroethane	0.28	J	1.0	0.20	ug/L			10/22/21 16:13	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 16:13	2
1,1-Dichloroethene	0.31	J	1.0	0.26	ug/L			10/22/21 16:13	2
cis-1,2-Dichloroethene	61		1.0	0.36	ug/L			10/22/21 16:13	2
trans-1,2-Dichloroethene	1.8		1.0	0.22	ug/L			10/22/21 16:13	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 16:13	2
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 16:13	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 16:13	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 16:13	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 16:13	2
Tetrachloroethene	1.1		1.0	0.20	ug/L			10/22/21 16:13	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 16:13	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 16:13	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 16:13	2
Trichloroethene	54		1.0	0.20	ug/L			10/22/21 16:13	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 16:13	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			10/22/21 16:13	2
Vinyl chloride	0.51	J	1.0	0.36	ug/L			10/22/21 16:13	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		74 - 120		10/22/21 16:13	2
Dibromofluoromethane (Surr)	88		80 - 123		10/22/21 16:13	2
1,2-Dichloroethane-d4 (Surr)	93		72 - 123		10/22/21 16:13	2
Toluene-d8 (Surr)	88		78 - 120		10/22/21 16:13	2

Client Sample ID: J6038-T10C-101221

Lab Sample ID: 320-80333-20

Date Collected: 10/12/21 12:55

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		5.0	1.4	ug/L			10/22/21 20:00	10
Bromoform	ND		10	1.9	ug/L			10/22/21 20:00	10
Bromomethane	ND		10	2.1	ug/L			10/22/21 20:00	10
Carbon tetrachloride	ND		5.0	1.2	ug/L			10/22/21 20:00	10
Chlorobenzene	ND		5.0	0.70	ug/L			10/22/21 20:00	10
Chloroethane	ND		10	2.4	ug/L			10/22/21 20:00	10
Chloroform	ND		10	1.2	ug/L			10/22/21 20:00	10
Chloromethane	ND		10	2.6	ug/L			10/22/21 20:00	10
Chlorodibromomethane	ND		5.0	1.6	ug/L			10/22/21 20:00	10
1,2-Dichlorobenzene	ND		5.0	0.97	ug/L			10/22/21 20:00	10
1,3-Dichlorobenzene	ND		5.0	0.86	ug/L			10/22/21 20:00	10
1,4-Dichlorobenzene	ND		5.0	0.83	ug/L			10/22/21 20:00	10
EDB	ND		5.0	1.2	ug/L			10/22/21 20:00	10
Dichlorodifluoromethane	4.3	J	10	3.2	ug/L			10/22/21 20:00	10
1,1-Dichloroethane	ND		5.0	1.0	ug/L			10/22/21 20:00	10
1,2-Dichloroethane	ND		5.0	1.4	ug/L			10/22/21 20:00	10
1,1-Dichloroethene	2.1	J	5.0	1.3	ug/L			10/22/21 20:00	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T10C-101221

Lab Sample ID: 320-80333-20

Date Collected: 10/12/21 12:55

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	290		5.0	1.8	ug/L			10/22/21 20:00	10
trans-1,2-Dichloroethene	3.1	J	5.0	1.1	ug/L			10/22/21 20:00	10
1,2-Dichloropropane	ND		5.0	1.5	ug/L			10/22/21 20:00	10
cis-1,3-Dichloropropene	ND		5.0	1.5	ug/L			10/22/21 20:00	10
trans-1,3-Dichloropropene	ND		5.0	1.6	ug/L			10/22/21 20:00	10
Methylene Chloride	ND		10	1.6	ug/L			10/22/21 20:00	10
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/22/21 20:00	10
Tetrachloroethene	ND		5.0	1.0	ug/L			10/22/21 20:00	10
1,2,4-Trichlorobenzene	ND		10	2.5	ug/L			10/22/21 20:00	10
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			10/22/21 20:00	10
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/22/21 20:00	10
Trichloroethene	240		5.0	1.0	ug/L			10/22/21 20:00	10
Trichlorofluoromethane	ND		10	1.3	ug/L			10/22/21 20:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	55		5.0	1.7	ug/L			10/22/21 20:00	10
Vinyl chloride	ND		5.0	1.8	ug/L			10/22/21 20:00	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 120					10/22/21 20:00	10
Dibromofluoromethane (Surr)	86		80 - 123					10/22/21 20:00	10
1,2-Dichloroethane-d4 (Surr)	94		72 - 123					10/22/21 20:00	10
Toluene-d8 (Surr)	88		78 - 120					10/22/21 20:00	10

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80333-21

Date Collected: 10/12/21 13:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 13:57	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 13:57	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 13:57	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 13:57	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 13:57	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 13:57	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 13:57	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 13:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 13:57	1
1,2-Dichlorobenzene	5.2		0.50	0.097	ug/L			10/22/21 13:57	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 13:57	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 13:57	1
EDB	ND		0.50	0.12	ug/L			10/22/21 13:57	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 13:57	1
1,1-Dichloroethane	0.72		0.50	0.10	ug/L			10/22/21 13:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 13:57	1
1,1-Dichloroethene	1.8		0.50	0.13	ug/L			10/22/21 13:57	1
trans-1,2-Dichloroethene	5.6		0.50	0.11	ug/L			10/22/21 13:57	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 13:57	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 13:57	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 13:57	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80333-21

Date Collected: 10/12/21 13:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 13:57	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 13:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 13:57	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 13:57	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 13:57	1
Trichloroethene	18		0.50	0.10	ug/L			10/22/21 13:57	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0		0.50	0.17	ug/L			10/22/21 13:57	1
Vinyl chloride	11		0.50	0.18	ug/L			10/22/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 120		10/22/21 13:57	1
Dibromofluoromethane (Surr)	86		80 - 123		10/22/21 13:57	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 123		10/22/21 13:57	1
Toluene-d8 (Surr)	89		78 - 120		10/22/21 13:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	410		5.0	1.8	ug/L			10/25/21 18:28	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 120		10/25/21 18:28	10
Dibromofluoromethane (Surr)	107		80 - 123		10/25/21 18:28	10
1,2-Dichloroethane-d4 (Surr)	118		72 - 123		10/25/21 18:28	10
Toluene-d8 (Surr)	103		78 - 120		10/25/21 18:28	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	270		1.0	0.17	ug/L			10/20/21 21:49	1
Ethane	1.8		1.0	0.29	ug/L			10/20/21 21:49	1
Ethylene	0.28	J	1.0	0.27	ug/L			10/20/21 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1-Trifluoroethane	107		60 - 140		10/20/21 21:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.74	J	1.0	0.35	mg/L			10/21/21 09:28	1
Total Alkalinity	390		5.0	5.0	mg/L			10/15/21 17:16	1

Client Sample ID: J6038-T8A-101221

Lab Sample ID: 320-80333-22

Date Collected: 10/12/21 14:10

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 14:20	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 14:20	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 14:20	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 14:20	1

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Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T8A-101221

Lab Sample ID: 320-80333-22

Date Collected: 10/12/21 14:10

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 14:20	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 14:20	1
Chloroform	0.18	J	1.0	0.12	ug/L			10/22/21 14:20	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 14:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 14:20	1
1,2-Dichlorobenzene	0.30	J	0.50	0.097	ug/L			10/22/21 14:20	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 14:20	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 14:20	1
EDB	ND		0.50	0.12	ug/L			10/22/21 14:20	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 14:20	1
1,1-Dichloroethane	0.24	J	0.50	0.10	ug/L			10/22/21 14:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 14:20	1
1,1-Dichloroethene	0.27	J	0.50	0.13	ug/L			10/22/21 14:20	1
cis-1,2-Dichloroethene	21		0.50	0.18	ug/L			10/22/21 14:20	1
trans-1,2-Dichloroethene	1.6		0.50	0.11	ug/L			10/22/21 14:20	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 14:20	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 14:20	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 14:20	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 14:20	1
Tetrachloroethene	0.98		0.50	0.10	ug/L			10/22/21 14:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 14:20	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 14:20	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 14:20	1
Trichloroethene	78		0.50	0.10	ug/L			10/22/21 14:20	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.81		0.50	0.17	ug/L			10/22/21 14:20	1
Vinyl chloride	0.39	J	0.50	0.18	ug/L			10/22/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 120					10/22/21 14:20	1
Dibromofluoromethane (Surr)	89		80 - 123					10/22/21 14:20	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 123					10/22/21 14:20	1
Toluene-d8 (Surr)	87		78 - 120					10/22/21 14:20	1

Client Sample ID: J6038-T11C-101221-1

Lab Sample ID: 320-80333-23

Date Collected: 10/12/21 13:05

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 18:29	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 18:29	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 18:29	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 18:29	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 18:29	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 18:29	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 18:29	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 18:29	4

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T11C-101221-1

Lab Sample ID: 320-80333-23

Date Collected: 10/12/21 13:05

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 18:29	4
1,2-Dichlorobenzene	ND		2.0	0.39	ug/L			10/22/21 18:29	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 18:29	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 18:29	4
EDB	ND		2.0	0.48	ug/L			10/22/21 18:29	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 18:29	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 18:29	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 18:29	4
1,1-Dichloroethene	1.4	J	2.0	0.52	ug/L			10/22/21 18:29	4
cis-1,2-Dichloroethene	17		2.0	0.72	ug/L			10/22/21 18:29	4
trans-1,2-Dichloroethene	0.57	J	2.0	0.44	ug/L			10/22/21 18:29	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 18:29	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 18:29	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 18:29	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 18:29	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 18:29	4
Tetrachloroethene	ND		2.0	0.40	ug/L			10/22/21 18:29	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 18:29	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 18:29	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 18:29	4
Trichloroethene	200		2.0	0.40	ug/L			10/22/21 18:29	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 18:29	4
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0		2.0	0.68	ug/L			10/22/21 18:29	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 18:29	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 120					10/22/21 18:29	4
Dibromofluoromethane (Surr)	85		80 - 123					10/22/21 18:29	4
1,2-Dichloroethane-d4 (Surr)	94		72 - 123					10/22/21 18:29	4
Toluene-d8 (Surr)	86		78 - 120					10/22/21 18:29	4

Client Sample ID: J6038-T11C-101221-2

Lab Sample ID: 320-80333-24

Date Collected: 10/12/21 13:10

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 18:51	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 18:51	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 18:51	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 18:51	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 18:51	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 18:51	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 18:51	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 18:51	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 18:51	4
1,2-Dichlorobenzene	ND		2.0	0.39	ug/L			10/22/21 18:51	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 18:51	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 18:51	4

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T11C-101221-2

Lab Sample ID: 320-80333-24

Date Collected: 10/12/21 13:10

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EDB	ND		2.0	0.48	ug/L			10/22/21 18:51	4
Dichlorodifluoromethane	1.3	J	4.0	1.3	ug/L			10/22/21 18:51	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 18:51	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 18:51	4
1,1-Dichloroethene	1.6	J	2.0	0.52	ug/L			10/22/21 18:51	4
cis-1,2-Dichloroethene	18		2.0	0.72	ug/L			10/22/21 18:51	4
trans-1,2-Dichloroethene	0.55	J	2.0	0.44	ug/L			10/22/21 18:51	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 18:51	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 18:51	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 18:51	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 18:51	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 18:51	4
Tetrachloroethene	ND		2.0	0.40	ug/L			10/22/21 18:51	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 18:51	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 18:51	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 18:51	4
Trichloroethene	200		2.0	0.40	ug/L			10/22/21 18:51	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 18:51	4
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6		2.0	0.68	ug/L			10/22/21 18:51	4
Vinyl chloride	0.72	J	2.0	0.72	ug/L			10/22/21 18:51	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		74 - 120					10/22/21 18:51	4
Dibromofluoromethane (Surr)	87		80 - 123					10/22/21 18:51	4
1,2-Dichloroethane-d4 (Surr)	96		72 - 123					10/22/21 18:51	4
Toluene-d8 (Surr)	87		78 - 120					10/22/21 18:51	4

Client Sample ID: J6038-T7B-101221-1

Lab Sample ID: 320-80333-25

Date Collected: 10/12/21 14:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 19:14	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 19:14	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 19:14	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 19:14	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 19:14	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 19:14	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 19:14	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 19:14	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 19:14	4
1,2-Dichlorobenzene	1.3	J	2.0	0.39	ug/L			10/22/21 19:14	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 19:14	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 19:14	4
EDB	ND		2.0	0.48	ug/L			10/22/21 19:14	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 19:14	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 19:14	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 19:14	4

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T7B-101221-1

Lab Sample ID: 320-80333-25

Date Collected: 10/12/21 14:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		2.0	0.52	ug/L			10/22/21 19:14	4
cis-1,2-Dichloroethene	7.0		2.0	0.72	ug/L			10/22/21 19:14	4
trans-1,2-Dichloroethene	1.2	J	2.0	0.44	ug/L			10/22/21 19:14	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 19:14	4
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 19:14	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 19:14	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 19:14	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 19:14	4
Tetrachloroethene	ND		2.0	0.40	ug/L			10/22/21 19:14	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 19:14	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 19:14	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 19:14	4
Trichloroethene	130		2.0	0.40	ug/L			10/22/21 19:14	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 19:14	4
1,1,2-Trichloro-1,2,2-trifluoroethane	2.7		2.0	0.68	ug/L			10/22/21 19:14	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 19:14	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 120		10/22/21 19:14	4
Dibromofluoromethane (Surr)	88		80 - 123		10/22/21 19:14	4
1,2-Dichloroethane-d4 (Surr)	95		72 - 123		10/22/21 19:14	4
Toluene-d8 (Surr)	87		78 - 120		10/22/21 19:14	4

Client Sample ID: J6038-T7B-101221-2

Lab Sample ID: 320-80333-26

Date Collected: 10/12/21 14:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		2.0	0.56	ug/L			10/22/21 19:37	4
Bromoform	ND		4.0	0.76	ug/L			10/22/21 19:37	4
Bromomethane	ND		4.0	0.84	ug/L			10/22/21 19:37	4
Carbon tetrachloride	ND		2.0	0.48	ug/L			10/22/21 19:37	4
Chlorobenzene	ND		2.0	0.28	ug/L			10/22/21 19:37	4
Chloroethane	ND		4.0	0.96	ug/L			10/22/21 19:37	4
Chloroform	ND		4.0	0.48	ug/L			10/22/21 19:37	4
Chloromethane	ND		4.0	1.0	ug/L			10/22/21 19:37	4
Chlorodibromomethane	ND		2.0	0.64	ug/L			10/22/21 19:37	4
1,2-Dichlorobenzene	1.2	J	2.0	0.39	ug/L			10/22/21 19:37	4
1,3-Dichlorobenzene	ND		2.0	0.34	ug/L			10/22/21 19:37	4
1,4-Dichlorobenzene	ND		2.0	0.33	ug/L			10/22/21 19:37	4
EDB	ND		2.0	0.48	ug/L			10/22/21 19:37	4
Dichlorodifluoromethane	ND		4.0	1.3	ug/L			10/22/21 19:37	4
1,1-Dichloroethane	ND		2.0	0.40	ug/L			10/22/21 19:37	4
1,2-Dichloroethane	ND		2.0	0.56	ug/L			10/22/21 19:37	4
1,1-Dichloroethene	ND		2.0	0.52	ug/L			10/22/21 19:37	4
cis-1,2-Dichloroethene	7.1		2.0	0.72	ug/L			10/22/21 19:37	4
trans-1,2-Dichloroethene	1.3	J	2.0	0.44	ug/L			10/22/21 19:37	4
1,2-Dichloropropane	ND		2.0	0.60	ug/L			10/22/21 19:37	4

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T7B-101221-2

Lab Sample ID: 320-80333-26

Date Collected: 10/12/21 14:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		2.0	0.60	ug/L			10/22/21 19:37	4
trans-1,3-Dichloropropene	ND		2.0	0.64	ug/L			10/22/21 19:37	4
Methylene Chloride	ND		4.0	0.64	ug/L			10/22/21 19:37	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.44	ug/L			10/22/21 19:37	4
Tetrachloroethene	0.46	J	2.0	0.40	ug/L			10/22/21 19:37	4
1,2,4-Trichlorobenzene	ND		4.0	1.0	ug/L			10/22/21 19:37	4
1,1,1-Trichloroethane	ND		2.0	0.40	ug/L			10/22/21 19:37	4
1,1,2-Trichloroethane	ND		2.0	0.48	ug/L			10/22/21 19:37	4
Trichloroethene	130		2.0	0.40	ug/L			10/22/21 19:37	4
Trichlorofluoromethane	ND		4.0	0.52	ug/L			10/22/21 19:37	4
1,1,2-Trichloro-1,2,2-trifluoroethane	2.9		2.0	0.68	ug/L			10/22/21 19:37	4
Vinyl chloride	ND		2.0	0.72	ug/L			10/22/21 19:37	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 120					10/22/21 19:37	4
Dibromofluoromethane (Surr)	86		80 - 123					10/22/21 19:37	4
1,2-Dichloroethane-d4 (Surr)	89		72 - 123					10/22/21 19:37	4
Toluene-d8 (Surr)	87		78 - 120					10/22/21 19:37	4

Client Sample ID: J6038-T7A-101221-1

Lab Sample ID: 320-80333-27

Date Collected: 10/12/21 14:50

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 16:35	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 16:35	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 16:35	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 16:35	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 16:35	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 16:35	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 16:35	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 16:35	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 16:35	2
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/21 16:35	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 16:35	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 16:35	2
EDB	ND		1.0	0.24	ug/L			10/22/21 16:35	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 16:35	2
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/22/21 16:35	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 16:35	2
1,1-Dichloroethene	ND		1.0	0.26	ug/L			10/22/21 16:35	2
cis-1,2-Dichloroethene	39		1.0	0.36	ug/L			10/22/21 16:35	2
trans-1,2-Dichloroethene	1.1		1.0	0.22	ug/L			10/22/21 16:35	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 16:35	2
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 16:35	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 16:35	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 16:35	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 16:35	2

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T7A-101221-1

Lab Sample ID: 320-80333-27

Date Collected: 10/12/21 14:50

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0		1.0	0.20	ug/L			10/22/21 16:35	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 16:35	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 16:35	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 16:35	2
Trichloroethene	95		1.0	0.20	ug/L			10/22/21 16:35	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 16:35	2
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2		1.0	0.34	ug/L			10/22/21 16:35	2
Vinyl chloride	ND		1.0	0.36	ug/L			10/22/21 16:35	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 120					10/22/21 16:35	2
Dibromofluoromethane (Surr)	87		80 - 123					10/22/21 16:35	2
1,2-Dichloroethane-d4 (Surr)	91		72 - 123					10/22/21 16:35	2
Toluene-d8 (Surr)	88		78 - 120					10/22/21 16:35	2

Client Sample ID: J6038-T7A-101221-2

Lab Sample ID: 320-80333-28

Date Collected: 10/12/21 14:55

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0	0.28	ug/L			10/22/21 16:58	2
Bromoform	ND		2.0	0.38	ug/L			10/22/21 16:58	2
Bromomethane	ND		2.0	0.42	ug/L			10/22/21 16:58	2
Carbon tetrachloride	ND		1.0	0.24	ug/L			10/22/21 16:58	2
Chlorobenzene	ND		1.0	0.14	ug/L			10/22/21 16:58	2
Chloroethane	ND		2.0	0.48	ug/L			10/22/21 16:58	2
Chloroform	ND		2.0	0.24	ug/L			10/22/21 16:58	2
Chloromethane	ND		2.0	0.52	ug/L			10/22/21 16:58	2
Chlorodibromomethane	ND		1.0	0.32	ug/L			10/22/21 16:58	2
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			10/22/21 16:58	2
1,3-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 16:58	2
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			10/22/21 16:58	2
EDB	ND		1.0	0.24	ug/L			10/22/21 16:58	2
Dichlorodifluoromethane	ND		2.0	0.64	ug/L			10/22/21 16:58	2
1,1-Dichloroethane	ND		1.0	0.20	ug/L			10/22/21 16:58	2
1,2-Dichloroethane	ND		1.0	0.28	ug/L			10/22/21 16:58	2
1,1-Dichloroethene	ND		1.0	0.26	ug/L			10/22/21 16:58	2
cis-1,2-Dichloroethene	38		1.0	0.36	ug/L			10/22/21 16:58	2
trans-1,2-Dichloroethene	1.1		1.0	0.22	ug/L			10/22/21 16:58	2
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/22/21 16:58	2
cis-1,3-Dichloropropene	ND		1.0	0.30	ug/L			10/22/21 16:58	2
trans-1,3-Dichloropropene	ND		1.0	0.32	ug/L			10/22/21 16:58	2
Methylene Chloride	ND		2.0	0.32	ug/L			10/22/21 16:58	2
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/22/21 16:58	2
Tetrachloroethene	1.0		1.0	0.20	ug/L			10/22/21 16:58	2
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L			10/22/21 16:58	2
1,1,1-Trichloroethane	ND		1.0	0.20	ug/L			10/22/21 16:58	2
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			10/22/21 16:58	2

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T7A-101221-2

Lab Sample ID: 320-80333-28

Date Collected: 10/12/21 14:55

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	94		1.0	0.20	ug/L			10/22/21 16:58	2
Trichlorofluoromethane	ND		2.0	0.26	ug/L			10/22/21 16:58	2
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2		1.0	0.34	ug/L			10/22/21 16:58	2
Vinyl chloride	ND		1.0	0.36	ug/L			10/22/21 16:58	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		74 - 120					10/22/21 16:58	2
Dibromofluoromethane (Surr)	88		80 - 123					10/22/21 16:58	2
1,2-Dichloroethane-d4 (Surr)	95		72 - 123					10/22/21 16:58	2
Toluene-d8 (Surr)	88		78 - 120					10/22/21 16:58	2

Client Sample ID: J6038-T22B-101221

Lab Sample ID: 320-80333-29

Date Collected: 10/12/21 10:28

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 14:42	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 14:42	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 14:42	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 14:42	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 14:42	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 14:42	1
Chloroform	0.12	J	1.0	0.12	ug/L			10/22/21 14:42	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 14:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 14:42	1
1,2-Dichlorobenzene	2.2		0.50	0.097	ug/L			10/22/21 14:42	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 14:42	1
1,4-Dichlorobenzene	0.085	J	0.50	0.083	ug/L			10/22/21 14:42	1
EDB	ND		0.50	0.12	ug/L			10/22/21 14:42	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 14:42	1
1,1-Dichloroethane	0.36	J	0.50	0.10	ug/L			10/22/21 14:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 14:42	1
1,1-Dichloroethene	0.91		0.50	0.13	ug/L			10/22/21 14:42	1
trans-1,2-Dichloroethene	3.2		0.50	0.11	ug/L			10/22/21 14:42	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 14:42	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 14:42	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 14:42	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 14:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 14:42	1
Tetrachloroethene	1.5		0.50	0.10	ug/L			10/22/21 14:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 14:42	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 14:42	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 14:42	1
Trichloroethene	78		0.50	0.10	ug/L			10/22/21 14:42	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.17	J	0.50	0.17	ug/L			10/22/21 14:42	1
Vinyl chloride	0.52		0.50	0.18	ug/L			10/22/21 14:42	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T22B-101221

Lab Sample ID: 320-80333-29

Date Collected: 10/12/21 10:28

Matrix: Water

Date Received: 10/14/21 11:52

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 120		10/22/21 14:42	1
Dibromofluoromethane (Surr)	88		80 - 123		10/22/21 14:42	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 123		10/22/21 14:42	1
Toluene-d8 (Surr)	87		78 - 120		10/22/21 14:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	140		2.0	0.72	ug/L			10/25/21 17:18	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		74 - 120		10/25/21 17:18	4
Dibromofluoromethane (Surr)	104		80 - 123		10/25/21 17:18	4
1,2-Dichloroethane-d4 (Surr)	112		72 - 123		10/25/21 17:18	4
Toluene-d8 (Surr)	102		78 - 120		10/25/21 17:18	4

Client Sample ID: TRIPBLANK-J6038-101321

Lab Sample ID: 320-80333-30

Date Collected: 10/13/21 07:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/25/21 12:39	1
Bromoform	ND		1.0	0.19	ug/L			10/25/21 12:39	1
Bromomethane	ND		1.0	0.21	ug/L			10/25/21 12:39	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/25/21 12:39	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/25/21 12:39	1
Chloroethane	ND		1.0	0.24	ug/L			10/25/21 12:39	1
Chloroform	ND		1.0	0.12	ug/L			10/25/21 12:39	1
Chloromethane	ND		1.0	0.26	ug/L			10/25/21 12:39	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/25/21 12:39	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/25/21 12:39	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/25/21 12:39	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/25/21 12:39	1
EDB	ND		0.50	0.12	ug/L			10/25/21 12:39	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/25/21 12:39	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/25/21 12:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/25/21 12:39	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/25/21 12:39	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/25/21 12:39	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/25/21 12:39	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/25/21 12:39	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/25/21 12:39	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/25/21 12:39	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/25/21 12:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/25/21 12:39	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/25/21 12:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/25/21 12:39	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/25/21 12:39	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/25/21 12:39	1
Trichloroethene	ND		0.50	0.10	ug/L			10/25/21 12:39	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/25/21 12:39	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: TRIPBLANK-J6038-101321

Lab Sample ID: 320-80333-30

Date Collected: 10/13/21 07:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/25/21 12:39	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/25/21 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		74 - 120					10/25/21 12:39	1
Dibromofluoromethane (Surr)	107		80 - 123					10/25/21 12:39	1
1,2-Dichloroethane-d4 (Surr)	115		72 - 123					10/25/21 12:39	1
Toluene-d8 (Surr)	104		78 - 120					10/25/21 12:39	1

Client Sample ID: J6038-T5B-101321-1

Lab Sample ID: 320-80333-31

Date Collected: 10/13/21 08:01

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		10	2.8	ug/L			10/25/21 19:37	20
Bromoform	ND		20	3.8	ug/L			10/25/21 19:37	20
Bromomethane	ND		20	4.2	ug/L			10/25/21 19:37	20
Carbon tetrachloride	ND		10	2.4	ug/L			10/25/21 19:37	20
Chlorobenzene	ND		10	1.4	ug/L			10/25/21 19:37	20
Chloroethane	ND		20	4.8	ug/L			10/25/21 19:37	20
Chloroform	ND		20	2.4	ug/L			10/25/21 19:37	20
Chloromethane	ND		20	5.2	ug/L			10/25/21 19:37	20
Chlorodibromomethane	ND		10	3.2	ug/L			10/25/21 19:37	20
1,2-Dichlorobenzene	ND		10	1.9	ug/L			10/25/21 19:37	20
1,3-Dichlorobenzene	ND		10	1.7	ug/L			10/25/21 19:37	20
1,4-Dichlorobenzene	ND		10	1.7	ug/L			10/25/21 19:37	20
EDB	ND		10	2.4	ug/L			10/25/21 19:37	20
Dichlorodifluoromethane	ND		20	6.4	ug/L			10/25/21 19:37	20
1,1-Dichloroethane	ND		10	2.0	ug/L			10/25/21 19:37	20
1,2-Dichloroethane	ND		10	2.8	ug/L			10/25/21 19:37	20
1,1-Dichloroethene	ND		10	2.6	ug/L			10/25/21 19:37	20
cis-1,2-Dichloroethene	95		10	3.6	ug/L			10/25/21 19:37	20
trans-1,2-Dichloroethene	ND		10	2.2	ug/L			10/25/21 19:37	20
1,2-Dichloropropane	ND		10	3.0	ug/L			10/25/21 19:37	20
cis-1,3-Dichloropropene	ND		10	3.0	ug/L			10/25/21 19:37	20
trans-1,3-Dichloropropene	ND		10	3.2	ug/L			10/25/21 19:37	20
Methylene Chloride	ND		20	3.2	ug/L			10/25/21 19:37	20
1,1,2,2-Tetrachloroethane	ND		10	2.2	ug/L			10/25/21 19:37	20
Tetrachloroethene	6.5 J		10	2.0	ug/L			10/25/21 19:37	20
1,2,4-Trichlorobenzene	ND		20	5.0	ug/L			10/25/21 19:37	20
1,1,1-Trichloroethane	ND		10	2.0	ug/L			10/25/21 19:37	20
1,1,2-Trichloroethane	ND		10	2.4	ug/L			10/25/21 19:37	20
Trichlorofluoromethane	ND		20	2.6	ug/L			10/25/21 19:37	20
1,1,2-Trichloro-1,2,2-trifluoroethane	200		10	3.4	ug/L			10/25/21 19:37	20
Vinyl chloride	ND		10	3.6	ug/L			10/25/21 19:37	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		74 - 120					10/25/21 19:37	20
Dibromofluoromethane (Surr)	102		80 - 123					10/25/21 19:37	20

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T5B-101321-1

Lab Sample ID: 320-80333-31

Date Collected: 10/13/21 08:01

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		72 - 123		10/25/21 19:37	20
Toluene-d8 (Surr)	102		78 - 120		10/25/21 19:37	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1400		20	4.0	ug/L			10/26/21 18:43	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 120		10/26/21 18:43	40
Dibromofluoromethane (Surr)	95		80 - 123		10/26/21 18:43	40
1,2-Dichloroethane-d4 (Surr)	81		72 - 123		10/26/21 18:43	40
Toluene-d8 (Surr)	96		78 - 120		10/26/21 18:43	40

Client Sample ID: J6038-T5B-101321-2

Lab Sample ID: 320-80333-32

Date Collected: 10/13/21 08:06

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		10	2.8	ug/L			10/25/21 20:00	20
Bromoform	ND		20	3.8	ug/L			10/25/21 20:00	20
Bromomethane	ND		20	4.2	ug/L			10/25/21 20:00	20
Carbon tetrachloride	ND		10	2.4	ug/L			10/25/21 20:00	20
Chlorobenzene	ND		10	1.4	ug/L			10/25/21 20:00	20
Chloroethane	ND		20	4.8	ug/L			10/25/21 20:00	20
Chloroform	ND		20	2.4	ug/L			10/25/21 20:00	20
Chloromethane	ND		20	5.2	ug/L			10/25/21 20:00	20
Chlorodibromomethane	ND		10	3.2	ug/L			10/25/21 20:00	20
1,2-Dichlorobenzene	ND		10	1.9	ug/L			10/25/21 20:00	20
1,3-Dichlorobenzene	ND		10	1.7	ug/L			10/25/21 20:00	20
1,4-Dichlorobenzene	ND		10	1.7	ug/L			10/25/21 20:00	20
EDB	ND		10	2.4	ug/L			10/25/21 20:00	20
Dichlorodifluoromethane	ND		20	6.4	ug/L			10/25/21 20:00	20
1,1-Dichloroethane	ND		10	2.0	ug/L			10/25/21 20:00	20
1,2-Dichloroethane	ND		10	2.8	ug/L			10/25/21 20:00	20
1,1-Dichloroethene	ND		10	2.6	ug/L			10/25/21 20:00	20
cis-1,2-Dichloroethene	45		10	3.6	ug/L			10/25/21 20:00	20
trans-1,2-Dichloroethene	ND		10	2.2	ug/L			10/25/21 20:00	20
1,2-Dichloropropane	ND		10	3.0	ug/L			10/25/21 20:00	20
cis-1,3-Dichloropropene	ND		10	3.0	ug/L			10/25/21 20:00	20
trans-1,3-Dichloropropene	ND		10	3.2	ug/L			10/25/21 20:00	20
Methylene Chloride	ND		20	3.2	ug/L			10/25/21 20:00	20
1,1,2,2-Tetrachloroethane	ND		10	2.2	ug/L			10/25/21 20:00	20
Tetrachloroethene	2.7	J	10	2.0	ug/L			10/25/21 20:00	20
1,2,4-Trichlorobenzene	ND		20	5.0	ug/L			10/25/21 20:00	20
1,1,1-Trichloroethane	ND		10	2.0	ug/L			10/25/21 20:00	20
1,1,2-Trichloroethane	ND		10	2.4	ug/L			10/25/21 20:00	20
Trichloroethene	870		10	2.0	ug/L			10/25/21 20:00	20
Trichlorofluoromethane	ND		20	2.6	ug/L			10/25/21 20:00	20

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T5B-101321-2

Lab Sample ID: 320-80333-32

Date Collected: 10/13/21 08:06

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	93		10	3.4	ug/L			10/25/21 20:00	20
Vinyl chloride	ND		10	3.6	ug/L			10/25/21 20:00	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		74 - 120					10/25/21 20:00	20
Dibromofluoromethane (Surr)	106		80 - 123					10/25/21 20:00	20
1,2-Dichloroethane-d4 (Surr)	112		72 - 123					10/25/21 20:00	20
Toluene-d8 (Surr)	102		78 - 120					10/25/21 20:00	20

Client Sample ID: J6038-T21B-101321

Lab Sample ID: 320-80333-33

Date Collected: 10/13/21 08:41

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		5.0	1.4	ug/L			10/25/21 18:51	10
Bromoform	ND		10	1.9	ug/L			10/25/21 18:51	10
Bromomethane	ND		10	2.1	ug/L			10/25/21 18:51	10
Carbon tetrachloride	ND		5.0	1.2	ug/L			10/25/21 18:51	10
Chlorobenzene	ND		5.0	0.70	ug/L			10/25/21 18:51	10
Chloroethane	ND		10	2.4	ug/L			10/25/21 18:51	10
Chloroform	ND		10	1.2	ug/L			10/25/21 18:51	10
Chloromethane	ND		10	2.6	ug/L			10/25/21 18:51	10
Chlorodibromomethane	ND		5.0	1.6	ug/L			10/25/21 18:51	10
1,2-Dichlorobenzene	ND		5.0	0.97	ug/L			10/25/21 18:51	10
1,3-Dichlorobenzene	ND		5.0	0.86	ug/L			10/25/21 18:51	10
1,4-Dichlorobenzene	ND		5.0	0.83	ug/L			10/25/21 18:51	10
EDB	ND		5.0	1.2	ug/L			10/25/21 18:51	10
Dichlorodifluoromethane	ND		10	3.2	ug/L			10/25/21 18:51	10
1,1-Dichloroethane	ND		5.0	1.0	ug/L			10/25/21 18:51	10
1,2-Dichloroethane	ND		5.0	1.4	ug/L			10/25/21 18:51	10
1,1-Dichloroethene	ND		5.0	1.3	ug/L			10/25/21 18:51	10
cis-1,2-Dichloroethene	260		5.0	1.8	ug/L			10/25/21 18:51	10
trans-1,2-Dichloroethene	1.7 J		5.0	1.1	ug/L			10/25/21 18:51	10
1,2-Dichloropropane	ND		5.0	1.5	ug/L			10/25/21 18:51	10
cis-1,3-Dichloropropene	ND		5.0	1.5	ug/L			10/25/21 18:51	10
trans-1,3-Dichloropropene	ND		5.0	1.6	ug/L			10/25/21 18:51	10
Methylene Chloride	ND		10	1.6	ug/L			10/25/21 18:51	10
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/25/21 18:51	10
Tetrachloroethene	ND		5.0	1.0	ug/L			10/25/21 18:51	10
1,2,4-Trichlorobenzene	ND		10	2.5	ug/L			10/25/21 18:51	10
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			10/25/21 18:51	10
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/25/21 18:51	10
Trichloroethene	410		5.0	1.0	ug/L			10/25/21 18:51	10
Trichlorofluoromethane	ND		10	1.3	ug/L			10/25/21 18:51	10
1,1,2-Trichloro-1,2,2-trifluoroethane	14		5.0	1.7	ug/L			10/25/21 18:51	10
Vinyl chloride	ND		5.0	1.8	ug/L			10/25/21 18:51	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T21B-101321

Lab Sample ID: 320-80333-33

Date Collected: 10/13/21 08:41

Matrix: Water

Date Received: 10/14/21 11:52

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		74 - 120		10/25/21 18:51	10
Dibromofluoromethane (Surr)	107		80 - 123		10/25/21 18:51	10
1,2-Dichloroethane-d4 (Surr)	116		72 - 123		10/25/21 18:51	10
Toluene-d8 (Surr)	101		78 - 120		10/25/21 18:51	10

Client Sample ID: J6038-T18B-101321

Lab Sample ID: 320-80333-34

Date Collected: 10/13/21 09:25

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/25/21 14:35	1
Bromoform	ND		1.0	0.19	ug/L			10/25/21 14:35	1
Bromomethane	ND		1.0	0.21	ug/L			10/25/21 14:35	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/25/21 14:35	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/25/21 14:35	1
Chloroethane	ND		1.0	0.24	ug/L			10/25/21 14:35	1
Chloroform	ND		1.0	0.12	ug/L			10/25/21 14:35	1
Chloromethane	ND		1.0	0.26	ug/L			10/25/21 14:35	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/25/21 14:35	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/25/21 14:35	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/25/21 14:35	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/25/21 14:35	1
EDB	ND		0.50	0.12	ug/L			10/25/21 14:35	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/25/21 14:35	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/25/21 14:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/25/21 14:35	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/25/21 14:35	1
cis-1,2-Dichloroethene	1.0		0.50	0.18	ug/L			10/25/21 14:35	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/25/21 14:35	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/25/21 14:35	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/25/21 14:35	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/25/21 14:35	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/25/21 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/25/21 14:35	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/25/21 14:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/25/21 14:35	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/25/21 14:35	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/25/21 14:35	1
Trichloroethene	16		0.50	0.10	ug/L			10/25/21 14:35	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/25/21 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.87		0.50	0.17	ug/L			10/25/21 14:35	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/25/21 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		74 - 120		10/25/21 14:35	1
Dibromofluoromethane (Surr)	105		80 - 123		10/25/21 14:35	1
1,2-Dichloroethane-d4 (Surr)	113		72 - 123		10/25/21 14:35	1
Toluene-d8 (Surr)	103		78 - 120		10/25/21 14:35	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T20B-101321

Lab Sample ID: 320-80333-35

Date Collected: 10/13/21 10:02

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		5.0	1.4	ug/L			10/25/21 19:14	10
Bromoform	ND		10	1.9	ug/L			10/25/21 19:14	10
Bromomethane	ND		10	2.1	ug/L			10/25/21 19:14	10
Carbon tetrachloride	ND		5.0	1.2	ug/L			10/25/21 19:14	10
Chlorobenzene	ND		5.0	0.70	ug/L			10/25/21 19:14	10
Chloroethane	ND		10	2.4	ug/L			10/25/21 19:14	10
Chloroform	ND		10	1.2	ug/L			10/25/21 19:14	10
Chloromethane	ND		10	2.6	ug/L			10/25/21 19:14	10
Chlorodibromomethane	ND		5.0	1.6	ug/L			10/25/21 19:14	10
1,2-Dichlorobenzene	ND		5.0	0.97	ug/L			10/25/21 19:14	10
1,3-Dichlorobenzene	ND		5.0	0.86	ug/L			10/25/21 19:14	10
1,4-Dichlorobenzene	ND		5.0	0.83	ug/L			10/25/21 19:14	10
EDB	ND		5.0	1.2	ug/L			10/25/21 19:14	10
Dichlorodifluoromethane	ND		10	3.2	ug/L			10/25/21 19:14	10
1,1-Dichloroethane	ND		5.0	1.0	ug/L			10/25/21 19:14	10
1,2-Dichloroethane	ND		5.0	1.4	ug/L			10/25/21 19:14	10
1,1-Dichloroethene	1.7	J	5.0	1.3	ug/L			10/25/21 19:14	10
cis-1,2-Dichloroethene	370		5.0	1.8	ug/L			10/25/21 19:14	10
trans-1,2-Dichloroethene	2.9	J	5.0	1.1	ug/L			10/25/21 19:14	10
1,2-Dichloropropane	ND		5.0	1.5	ug/L			10/25/21 19:14	10
cis-1,3-Dichloropropene	ND		5.0	1.5	ug/L			10/25/21 19:14	10
trans-1,3-Dichloropropene	ND		5.0	1.6	ug/L			10/25/21 19:14	10
Methylene Chloride	ND		10	1.6	ug/L			10/25/21 19:14	10
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/25/21 19:14	10
Tetrachloroethene	ND		5.0	1.0	ug/L			10/25/21 19:14	10
1,2,4-Trichlorobenzene	ND		10	2.5	ug/L			10/25/21 19:14	10
1,1,1-Trichloroethane	ND		5.0	1.0	ug/L			10/25/21 19:14	10
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/25/21 19:14	10
Trichloroethene	170		5.0	1.0	ug/L			10/25/21 19:14	10
Trichlorofluoromethane	ND		10	1.3	ug/L			10/25/21 19:14	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.7	ug/L			10/25/21 19:14	10
Vinyl chloride	6.3		5.0	1.8	ug/L			10/25/21 19:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		74 - 120		10/25/21 19:14	10
Dibromofluoromethane (Surr)	108		80 - 123		10/25/21 19:14	10
1,2-Dichloroethane-d4 (Surr)	118		72 - 123		10/25/21 19:14	10
Toluene-d8 (Surr)	99		78 - 120		10/25/21 19:14	10

Client Sample ID: J6038-T12C-101321

Lab Sample ID: 320-80333-36

Date Collected: 10/13/21 11:06

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/25/21 14:59	1
Bromoform	ND		1.0	0.19	ug/L			10/25/21 14:59	1
Bromomethane	ND		1.0	0.21	ug/L			10/25/21 14:59	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/25/21 14:59	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/25/21 14:59	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T12C-101321

Lab Sample ID: 320-80333-36

Date Collected: 10/13/21 11:06

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.24	ug/L			10/25/21 14:59	1
Chloroform	ND		1.0	0.12	ug/L			10/25/21 14:59	1
Chloromethane	ND		1.0	0.26	ug/L			10/25/21 14:59	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/25/21 14:59	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/25/21 14:59	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/25/21 14:59	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/25/21 14:59	1
EDB	ND		0.50	0.12	ug/L			10/25/21 14:59	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/25/21 14:59	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/25/21 14:59	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/25/21 14:59	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/25/21 14:59	1
cis-1,2-Dichloroethene	0.54		0.50	0.18	ug/L			10/25/21 14:59	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/25/21 14:59	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/25/21 14:59	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/25/21 14:59	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/25/21 14:59	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/25/21 14:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/25/21 14:59	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/25/21 14:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/25/21 14:59	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/25/21 14:59	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/25/21 14:59	1
Trichloroethene	1.9		0.50	0.10	ug/L			10/25/21 14:59	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/25/21 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/25/21 14:59	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/25/21 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		74 - 120		10/25/21 14:59	1
Dibromofluoromethane (Surr)	111		80 - 123		10/25/21 14:59	1
1,2-Dichloroethane-d4 (Surr)	118		72 - 123		10/25/21 14:59	1
Toluene-d8 (Surr)	101		78 - 120		10/25/21 14:59	1

Client Sample ID: J6038-T9C-101321

Lab Sample ID: 320-80333-37

Date Collected: 10/13/21 11:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/25/21 15:22	1
Bromoform	ND		1.0	0.19	ug/L			10/25/21 15:22	1
Bromomethane	ND		1.0	0.21	ug/L			10/25/21 15:22	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/25/21 15:22	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/25/21 15:22	1
Chloroethane	ND		1.0	0.24	ug/L			10/25/21 15:22	1
Chloroform	ND		1.0	0.12	ug/L			10/25/21 15:22	1
Chloromethane	ND		1.0	0.26	ug/L			10/25/21 15:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/25/21 15:22	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/25/21 15:22	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T9C-101321

Lab Sample ID: 320-80333-37

Date Collected: 10/13/21 11:35

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/25/21 15:22	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/25/21 15:22	1
EDB	ND		0.50	0.12	ug/L			10/25/21 15:22	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/25/21 15:22	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/25/21 15:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/25/21 15:22	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/25/21 15:22	1
cis-1,2-Dichloroethene	0.31	J	0.50	0.18	ug/L			10/25/21 15:22	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/25/21 15:22	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/25/21 15:22	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/25/21 15:22	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/25/21 15:22	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/25/21 15:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/25/21 15:22	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/25/21 15:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/25/21 15:22	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/25/21 15:22	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/25/21 15:22	1
Trichloroethene	0.31	J	0.50	0.10	ug/L			10/25/21 15:22	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/25/21 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/25/21 15:22	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/25/21 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		74 - 120		10/25/21 15:22	1
Dibromofluoromethane (Surr)	105		80 - 123		10/25/21 15:22	1
1,2-Dichloroethane-d4 (Surr)	112		72 - 123		10/25/21 15:22	1
Toluene-d8 (Surr)	100		78 - 120		10/25/21 15:22	1

Client Sample ID: J6038-T19B-101321

Lab Sample ID: 320-80333-38

Date Collected: 10/13/21 12:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/25/21 15:45	1
Bromoform	ND		1.0	0.19	ug/L			10/25/21 15:45	1
Bromomethane	ND		1.0	0.21	ug/L			10/25/21 15:45	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/25/21 15:45	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/25/21 15:45	1
Chloroethane	ND		1.0	0.24	ug/L			10/25/21 15:45	1
Chloroform	ND		1.0	0.12	ug/L			10/25/21 15:45	1
Chloromethane	ND		1.0	0.26	ug/L			10/25/21 15:45	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/25/21 15:45	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/25/21 15:45	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/25/21 15:45	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/25/21 15:45	1
EDB	ND		0.50	0.12	ug/L			10/25/21 15:45	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/25/21 15:45	1
1,1-Dichloroethane	0.23	J	0.50	0.10	ug/L			10/25/21 15:45	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T19B-101321

Lab Sample ID: 320-80333-38

Date Collected: 10/13/21 12:30

Matrix: Water

Date Received: 10/14/21 11:52

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/25/21 15:45	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/25/21 15:45	1
cis-1,2-Dichloroethene	1.3		0.50	0.18	ug/L			10/25/21 15:45	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/25/21 15:45	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/25/21 15:45	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/25/21 15:45	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/25/21 15:45	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/25/21 15:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/25/21 15:45	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/25/21 15:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/25/21 15:45	1
1,1,1-Trichloroethane	0.17	J	0.50	0.10	ug/L			10/25/21 15:45	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/25/21 15:45	1
Trichloroethene	50		0.50	0.10	ug/L			10/25/21 15:45	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/25/21 15:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.98		0.50	0.17	ug/L			10/25/21 15:45	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/25/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		74 - 120					10/25/21 15:45	1
Dibromofluoromethane (Surr)	107		80 - 123					10/25/21 15:45	1
1,2-Dichloroethane-d4 (Surr)	115		72 - 123					10/25/21 15:45	1
Toluene-d8 (Surr)	101		78 - 120					10/25/21 15:45	1

Surrogate Summary

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (74-120)	DBFM (80-123)	DCA (72-123)	TOL (78-120)
320-80333-1	TRIPBLANK-J6038-101121	115	103	110	100
320-80333-2	J6038-T9A-101121	115	103	114	100
320-80333-2 - DL	J6038-T9A-101121	96	100	89	97
320-80333-3	J6038-T19A-101121	112	102	112	100
320-80333-4	J6038-T14A-101121	111	106	113	100
320-80333-5	J6038-T13A-101121	115	111	118	97
320-80333-6	J6038-T23A-101121	112	105	115	99
320-80333-7	J6038-T25A-101121	116	108	118	101
320-80333-8	TRIPBLANK-J6038-101221	93	102	90	96
320-80333-9	J6038-T15A-101221	95	100	86	95
320-80333-10	J6038-T17A-101221	96	100	85	95
320-80333-11	J6038-T17B-101221	95	96	86	95
320-80333-12	J6038-T4B-101221	94	99	88	96
320-80333-13	J6038-38S-101221	112	107	117	103
320-80333-14	J6038-T25BS-101221	112	106	117	103
320-80333-15	J6038-T25BD-101221	112	103	114	101
320-80333-16	J6038-T24B-101221	91	85	94	89
320-80333-17	J6038-T23B-101221	92	87	94	88
320-80333-18	J6038-T10B-101221	90	87	94	87
320-80333-19	J6038-T16A-101221	90	88	93	88
320-80333-20	J6038-T10C-101221	91	86	94	88
320-80333-21	J6038-T8B-101221	91	86	87	89
320-80333-21 - DL	J6038-T8B-101221	111	107	118	103
320-80333-22	J6038-T8A-101221	93	89	94	87
320-80333-23	J6038-T11C-101221-1	91	85	94	86
320-80333-24	J6038-T11C-101221-2	90	87	96	87
320-80333-25	J6038-T7B-101221-1	92	88	95	87
320-80333-26	J6038-T7B-101221-2	91	86	89	87
320-80333-27	J6038-T7A-101221-1	92	87	91	88
320-80333-28	J6038-T7A-101221-2	91	88	95	88
320-80333-29	J6038-T22B-101221	92	88	94	87
320-80333-29 - DL	J6038-T22B-101221	109	104	112	102
320-80333-30	TRIPBLANK-J6038-101321	113	107	115	104
320-80333-31	J6038-T5B-101321-1	114	102	114	102
320-80333-31 - DL	J6038-T5B-101321-1	93	95	81	96
320-80333-32	J6038-T5B-101321-2	110	106	112	102
320-80333-33	J6038-T21B-101321	114	107	116	101
320-80333-34	J6038-T18B-101321	111	105	113	103
320-80333-35	J6038-T20B-101321	114	108	118	99
320-80333-36	J6038-T12C-101321	115	111	118	101
320-80333-37	J6038-T9C-101321	113	105	112	100
320-80333-38	J6038-T19B-101321	113	107	115	101
LCS 320-536266/4	Lab Control Sample	109	112	117	102
LCS 320-536344/3	Lab Control Sample	111	107	114	102
LCS 320-536349/4	Lab Control Sample	93	91	93	88
LCS 320-536356/6	Lab Control Sample	95	104	91	99
LCS 320-536611/4	Lab Control Sample	92	89	92	89
LCS 320-536913/3	Lab Control Sample	115	111	114	105
LCS 320-537169/3	Lab Control Sample	89	96	78	96

Surrogate Summary

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(74-120)	(80-123)	(72-123)	(78-120)
LCSD 320-536266/5	Lab Control Sample Dup	110	109	113	102
LCSD 320-536344/4	Lab Control Sample Dup	111	110	113	103
LCSD 320-536349/5	Lab Control Sample Dup	95	92	93	88
LCSD 320-536356/7	Lab Control Sample Dup	98	103	86	100
LCSD 320-536611/5	Lab Control Sample Dup	93	91	92	88
LCSD 320-536913/4	Lab Control Sample Dup	114	109	113	105
LCSD 320-537169/4	Lab Control Sample Dup	95	96	76	99
MB 320-536266/8	Method Blank	112	108	117	103
MB 320-536344/7	Method Blank	117	110	115	97
MB 320-536349/8	Method Blank	92	86	91	86
MB 320-536356/11	Method Blank	96	99	88	96
MB 320-536611/8	Method Blank	93	89	96	87
MB 320-536913/7	Method Blank	114	109	116	100
MB 320-537169/10	Method Blank	96	99	86	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFE1
		(60-140)
320-80333-14	J6038-T25BS-101221	108
320-80333-18	J6038-T10B-101221	107
320-80333-21	J6038-T8B-101221	107
LCS 240-509082/4	Lab Control Sample	106
MB 240-509082/3	Method Blank	110

Surrogate Legend

TFE = 1,1,1-Trifluoroethane

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-536266/8
Matrix: Water
Analysis Batch: 536266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/21/21 23:56	1
Bromoform	ND		1.0	0.19	ug/L			10/21/21 23:56	1
Bromomethane	ND		1.0	0.21	ug/L			10/21/21 23:56	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/21/21 23:56	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/21/21 23:56	1
Chloroethane	ND		1.0	0.24	ug/L			10/21/21 23:56	1
Chloroform	ND		1.0	0.12	ug/L			10/21/21 23:56	1
Chloromethane	ND		1.0	0.26	ug/L			10/21/21 23:56	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/21/21 23:56	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/21/21 23:56	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/21/21 23:56	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/21/21 23:56	1
EDB	ND		0.50	0.12	ug/L			10/21/21 23:56	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/21/21 23:56	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/21/21 23:56	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/21/21 23:56	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/21/21 23:56	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/21/21 23:56	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/21/21 23:56	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/21/21 23:56	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/21/21 23:56	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/21/21 23:56	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/21/21 23:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/21/21 23:56	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/21/21 23:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/21/21 23:56	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/21/21 23:56	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/21/21 23:56	1
Trichloroethene	ND		0.50	0.10	ug/L			10/21/21 23:56	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/21/21 23:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/21/21 23:56	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/21/21 23:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	112		74 - 120		10/21/21 23:56	1
Dibromofluoromethane (Surr)	108		80 - 123		10/21/21 23:56	1
1,2-Dichloroethane-d4 (Surr)	117		72 - 123		10/21/21 23:56	1
Toluene-d8 (Surr)	103		78 - 120		10/21/21 23:56	1

Lab Sample ID: LCS 320-536266/4
Matrix: Water
Analysis Batch: 536266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	20.0	18.7		ug/L		94	80 - 120
Bromomethane	20.0	20.1		ug/L		100	65 - 132
Carbon tetrachloride	20.0	21.8		ug/L		109	78 - 124

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-536266/4
Matrix: Water
Analysis Batch: 536266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	20.0	19.6		ug/L		98	78 - 120
Chloroethane	20.0	20.6		ug/L		103	65 - 123
Chloroform	20.0	21.5		ug/L		107	80 - 120
Chloromethane	20.0	17.1		ug/L		85	62 - 129
Chlorodibromomethane	20.0	20.5		ug/L		103	80 - 122
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	77 - 120
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	78 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	74 - 120
EDB	20.0	20.4		ug/L		102	78 - 120
Dichlorodifluoromethane	20.0	18.3		ug/L		92	39 - 161
1,1-Dichloroethane	20.0	20.0		ug/L		100	79 - 120
1,2-Dichloroethane	20.0	21.7		ug/L		108	77 - 128
1,1-Dichloroethene	20.0	20.9		ug/L		104	74 - 120
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	78 - 120
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	76 - 120
1,2-Dichloropropane	20.0	21.2		ug/L		106	75 - 125
cis-1,3-Dichloropropene	20.0	20.6		ug/L		103	80 - 131
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	75 - 133
Methylene Chloride	20.0	21.1		ug/L		106	77 - 120
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	74 - 137
Tetrachloroethene	20.0	20.6		ug/L		103	74 - 120
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	61 - 130
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	79 - 121
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	79 - 127
Trichloroethene	20.0	21.1		ug/L		106	74 - 120
Trichlorofluoromethane	20.0	21.6		ug/L		108	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.9		ug/L		104	64 - 125
Vinyl chloride	20.0	18.7		ug/L		94	68 - 121

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		74 - 120
Dibromofluoromethane (Surr)	112		80 - 123
1,2-Dichloroethane-d4 (Surr)	117		72 - 123
Toluene-d8 (Surr)	102		78 - 120

Lab Sample ID: LCSD 320-536266/5
Matrix: Water
Analysis Batch: 536266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	21.0		ug/L		105	80 - 124	4	20
Bromoform	20.0	18.9		ug/L		94	80 - 120	1	16
Bromomethane	20.0	19.6		ug/L		98	65 - 132	2	40
Carbon tetrachloride	20.0	21.0		ug/L		105	78 - 124	4	25
Chlorobenzene	20.0	19.4		ug/L		97	78 - 120	1	15
Chloroethane	20.0	20.4		ug/L		102	65 - 123	1	40
Chloroform	20.0	20.3		ug/L		102	80 - 120	5	22
Chloromethane	20.0	17.2		ug/L		86	62 - 129	1	25

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-536266/5
Matrix: Water
Analysis Batch: 536266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	20.0	20.6		ug/L		103	80 - 122	0	17
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	77 - 120	2	19
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	78 - 120	1	17
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	74 - 120	0	15
EDB	20.0	20.6		ug/L		103	78 - 120	1	15
Dichlorodifluoromethane	20.0	17.4		ug/L		87	39 - 161	5	51
1,1-Dichloroethane	20.0	19.1		ug/L		96	79 - 120	5	21
1,2-Dichloroethane	20.0	20.7		ug/L		104	77 - 128	4	25
1,1-Dichloroethene	20.0	20.6		ug/L		103	74 - 120	1	22
cis-1,2-Dichloroethene	20.0	19.3		ug/L		97	78 - 120	8	18
trans-1,2-Dichloroethene	20.0	18.9		ug/L		95	76 - 120	7	20
1,2-Dichloropropane	20.0	19.8		ug/L		99	75 - 125	6	27
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	80 - 131	1	24
trans-1,3-Dichloropropene	20.0	20.8		ug/L		104	75 - 133	2	29
Methylene Chloride	20.0	20.3		ug/L		102	77 - 120	4	20
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	74 - 137	1	27
Tetrachloroethene	20.0	20.4		ug/L		102	74 - 120	1	18
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	61 - 130	4	40
1,1,1-Trichloroethane	20.0	21.1		ug/L		106	79 - 121	3	25
1,1,2-Trichloroethane	20.0	20.7		ug/L		104	79 - 127	1	30
Trichloroethene	20.0	20.1		ug/L		100	74 - 120	5	20
Trichlorofluoromethane	20.0	20.9		ug/L		104	60 - 135	3	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.0		ug/L		100	64 - 125	4	40
Vinyl chloride	20.0	17.4		ug/L		87	68 - 121	7	33

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	110		74 - 120
Dibromofluoromethane (Surr)	109		80 - 123
1,2-Dichloroethane-d4 (Surr)	113		72 - 123
Toluene-d8 (Surr)	102		78 - 120

Lab Sample ID: MB 320-536344/7
Matrix: Water
Analysis Batch: 536344

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 12:05	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 12:05	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 12:05	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 12:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 12:05	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 12:05	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 12:05	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 12:05	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 12:05	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/22/21 12:05	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 12:05	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 12:05	1

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-536344/7
Matrix: Water
Analysis Batch: 536344

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EDB	ND		0.50	0.12	ug/L			10/22/21 12:05	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 12:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/22/21 12:05	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 12:05	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 12:05	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/22/21 12:05	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/22/21 12:05	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 12:05	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 12:05	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 12:05	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 12:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 12:05	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 12:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 12:05	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 12:05	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 12:05	1
Trichloroethene	ND		0.50	0.10	ug/L			10/22/21 12:05	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 12:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 12:05	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/22/21 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		74 - 120		10/22/21 12:05	1
Dibromofluoromethane (Surr)	110		80 - 123		10/22/21 12:05	1
1,2-Dichloroethane-d4 (Surr)	115		72 - 123		10/22/21 12:05	1
Toluene-d8 (Surr)	97		78 - 120		10/22/21 12:05	1

Lab Sample ID: LCS 320-536344/3
Matrix: Water
Analysis Batch: 536344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	20.0	21.3		ug/L		107	80 - 124
Bromoform	20.0	19.7		ug/L		99	80 - 120
Bromomethane	20.0	18.7		ug/L		93	65 - 132
Carbon tetrachloride	20.0	21.1		ug/L		106	78 - 124
Chlorobenzene	20.0	20.0		ug/L		100	78 - 120
Chloroethane	20.0	18.6		ug/L		93	65 - 123
Chloroform	20.0	20.5		ug/L		102	80 - 120
Chloromethane	20.0	16.5		ug/L		82	62 - 129
Chlorodibromomethane	20.0	21.0		ug/L		105	80 - 122
1,2-Dichlorobenzene	20.0	20.3		ug/L		102	77 - 120
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	78 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	74 - 120
EDB	20.0	20.7		ug/L		104	78 - 120
Dichlorodifluoromethane	20.0	17.2		ug/L		86	39 - 161
1,1-Dichloroethane	20.0	19.2		ug/L		96	79 - 120
1,2-Dichloroethane	20.0	21.0		ug/L		105	77 - 128

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-536344/3
Matrix: Water
Analysis Batch: 536344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	20.4		ug/L		102	74 - 120
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	78 - 120
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	76 - 120
1,2-Dichloropropane	20.0	20.2		ug/L		101	75 - 125
cis-1,3-Dichloropropene	20.0	21.2		ug/L		106	80 - 131
trans-1,3-Dichloropropene	20.0	21.7		ug/L		108	75 - 133
Methylene Chloride	20.0	20.6		ug/L		103	77 - 120
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		103	74 - 137
Tetrachloroethene	20.0	20.4		ug/L		102	74 - 120
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	61 - 130
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	79 - 121
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	79 - 127
Trichloroethene	20.0	20.1		ug/L		101	74 - 120
Trichlorofluoromethane	20.0	20.8		ug/L		104	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.3		ug/L		101	64 - 125
Vinyl chloride	20.0	17.3		ug/L		87	68 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		74 - 120
Dibromofluoromethane (Surr)	107		80 - 123
1,2-Dichloroethane-d4 (Surr)	114		72 - 123
Toluene-d8 (Surr)	102		78 - 120

Lab Sample ID: LCSD 320-536344/4
Matrix: Water
Analysis Batch: 536344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	21.2		ug/L		106	80 - 124	1	20
Bromoform	20.0	19.5		ug/L		97	80 - 120	1	16
Bromomethane	20.0	19.4		ug/L		97	65 - 132	4	40
Carbon tetrachloride	20.0	21.2		ug/L		106	78 - 124	0	25
Chlorobenzene	20.0	19.4		ug/L		97	78 - 120	3	15
Chloroethane	20.0	18.8		ug/L		94	65 - 123	1	40
Chloroform	20.0	20.3		ug/L		102	80 - 120	1	22
Chloromethane	20.0	15.0		ug/L		75	62 - 129	9	25
Chlorodibromomethane	20.0	21.0		ug/L		105	80 - 122	0	17
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	77 - 120	2	19
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	78 - 120	2	17
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	74 - 120	1	15
EDB	20.0	20.3		ug/L		102	78 - 120	2	15
Dichlorodifluoromethane	20.0	16.7		ug/L		83	39 - 161	3	51
1,1-Dichloroethane	20.0	19.0		ug/L		95	79 - 120	1	21
1,2-Dichloroethane	20.0	20.8		ug/L		104	77 - 128	1	25
1,1-Dichloroethene	20.0	20.0		ug/L		100	74 - 120	2	22
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	78 - 120	1	18
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	76 - 120	1	20
1,2-Dichloropropane	20.0	19.9		ug/L		99	75 - 125	2	27

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-536344/4
Matrix: Water
Analysis Batch: 536344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	20.0	20.7		ug/L		103	80 - 131	2	24
trans-1,3-Dichloropropene	20.0	21.2		ug/L		106	75 - 133	2	29
Methylene Chloride	20.0	20.4		ug/L		102	77 - 120	1	20
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	74 - 137	3	27
Tetrachloroethene	20.0	20.4		ug/L		102	74 - 120	0	18
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		101	61 - 130	0	40
1,1,1-Trichloroethane	20.0	21.1		ug/L		105	79 - 121	1	25
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	79 - 127	6	30
Trichloroethene	20.0	19.7		ug/L		98	74 - 120	2	20
Trichlorofluoromethane	20.0	21.0		ug/L		105	60 - 135	1	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.6		ug/L		103	64 - 125	2	40
Vinyl chloride	20.0	17.5		ug/L		87	68 - 121	1	33

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	111		74 - 120
Dibromofluoromethane (Surr)	110		80 - 123
1,2-Dichloroethane-d4 (Surr)	113		72 - 123
Toluene-d8 (Surr)	103		78 - 120

Lab Sample ID: MB 320-536349/8
Matrix: Water
Analysis Batch: 536349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 12:26	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 12:26	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 12:26	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 12:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 12:26	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 12:26	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 12:26	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 12:26	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 12:26	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/22/21 12:26	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 12:26	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 12:26	1
EDB	ND		0.50	0.12	ug/L			10/22/21 12:26	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 12:26	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/22/21 12:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 12:26	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 12:26	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/22/21 12:26	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/22/21 12:26	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 12:26	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 12:26	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 12:26	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 12:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 12:26	1

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-536349/8
Matrix: Water
Analysis Batch: 536349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 12:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 12:26	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 12:26	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 12:26	1
Trichloroethene	ND		0.50	0.10	ug/L			10/22/21 12:26	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 12:26	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/22/21 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 120		10/22/21 12:26	1
Dibromofluoromethane (Surr)	86		80 - 123		10/22/21 12:26	1
1,2-Dichloroethane-d4 (Surr)	91		72 - 123		10/22/21 12:26	1
Toluene-d8 (Surr)	86		78 - 120		10/22/21 12:26	1

Lab Sample ID: LCS 320-536349/4
Matrix: Water
Analysis Batch: 536349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	20.0	18.4		ug/L		92	80 - 124
Bromoform	20.0	17.8		ug/L		89	80 - 120
Bromomethane	20.0	19.0		ug/L		95	65 - 132
Carbon tetrachloride	20.0	18.0		ug/L		90	78 - 124
Chlorobenzene	20.0	17.2		ug/L		86	78 - 120
Chloroethane	20.0	17.5		ug/L		88	65 - 123
Chloroform	20.0	17.6		ug/L		88	80 - 120
Chloromethane	20.0	17.2		ug/L		86	62 - 129
Chlorodibromomethane	20.0	18.9		ug/L		94	80 - 122
1,2-Dichlorobenzene	20.0	17.8		ug/L		89	77 - 120
1,3-Dichlorobenzene	20.0	17.4		ug/L		87	78 - 120
1,4-Dichlorobenzene	20.0	17.3		ug/L		87	74 - 120
EDB	20.0	17.4		ug/L		87	78 - 120
Dichlorodifluoromethane	20.0	19.2		ug/L		96	39 - 161
1,1-Dichloroethane	20.0	17.0		ug/L		85	79 - 120
1,2-Dichloroethane	20.0	17.9		ug/L		90	77 - 128
1,1-Dichloroethene	20.0	17.7		ug/L		88	74 - 120
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	78 - 120
trans-1,2-Dichloroethene	20.0	17.3		ug/L		86	76 - 120
1,2-Dichloropropane	20.0	18.2		ug/L		91	75 - 125
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	80 - 131
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	75 - 133
Methylene Chloride	20.0	17.4		ug/L		87	77 - 120
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	74 - 137
Tetrachloroethene	20.0	17.4		ug/L		87	74 - 120
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	61 - 130
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	79 - 121
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	79 - 127

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-536349/4
Matrix: Water
Analysis Batch: 536349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	17.2		ug/L		86	74 - 120
Trichlorofluoromethane	20.0	18.1		ug/L		91	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.1		ug/L		90	64 - 125
Vinyl chloride	20.0	18.1		ug/L		91	68 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		74 - 120
Dibromofluoromethane (Surr)	91		80 - 123
1,2-Dichloroethane-d4 (Surr)	93		72 - 123
Toluene-d8 (Surr)	88		78 - 120

Lab Sample ID: LCSD 320-536349/5
Matrix: Water
Analysis Batch: 536349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	17.9		ug/L		89	80 - 124	3	20
Bromoform	20.0	18.4		ug/L		92	80 - 120	3	16
Bromomethane	20.0	19.0		ug/L		95	65 - 132	0	40
Carbon tetrachloride	20.0	18.2		ug/L		91	78 - 124	1	25
Chlorobenzene	20.0	17.0		ug/L		85	78 - 120	1	15
Chloroethane	20.0	17.5		ug/L		88	65 - 123	0	40
Chloroform	20.0	17.6		ug/L		88	80 - 120	0	22
Chloromethane	20.0	17.7		ug/L		88	62 - 129	2	25
Chlorodibromomethane	20.0	18.6		ug/L		93	80 - 122	2	17
1,2-Dichlorobenzene	20.0	17.7		ug/L		88	77 - 120	1	19
1,3-Dichlorobenzene	20.0	17.0		ug/L		85	78 - 120	2	17
1,4-Dichlorobenzene	20.0	17.0		ug/L		85	74 - 120	2	15
EDB	20.0	17.6		ug/L		88	78 - 120	1	15
Dichlorodifluoromethane	20.0	19.1		ug/L		95	39 - 161	0	51
1,1-Dichloroethane	20.0	17.2		ug/L		86	79 - 120	1	21
1,2-Dichloroethane	20.0	17.4		ug/L		87	77 - 128	3	25
1,1-Dichloroethene	20.0	18.0		ug/L		90	74 - 120	2	22
cis-1,2-Dichloroethene	20.0	17.7		ug/L		88	78 - 120	1	18
trans-1,2-Dichloroethene	20.0	17.6		ug/L		88	76 - 120	2	20
1,2-Dichloropropane	20.0	17.7		ug/L		88	75 - 125	3	27
cis-1,3-Dichloropropene	20.0	18.5		ug/L		92	80 - 131	1	24
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	75 - 133	3	29
Methylene Chloride	20.0	17.4		ug/L		87	77 - 120	0	20
1,1,1,2-Tetrachloroethane	20.0	17.8		ug/L		89	74 - 137	5	27
Tetrachloroethene	20.0	17.2		ug/L		86	74 - 120	1	18
1,2,4-Trichlorobenzene	20.0	18.1		ug/L		90	61 - 130	2	40
1,1,1-Trichloroethane	20.0	18.1		ug/L		90	79 - 121	1	25
1,1,2-Trichloroethane	20.0	17.9		ug/L		90	79 - 127	1	30
Trichloroethene	20.0	16.8		ug/L		84	74 - 120	2	20
Trichlorofluoromethane	20.0	17.9		ug/L		90	60 - 135	1	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.1		ug/L		91	64 - 125	0	40

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-536349/5
Matrix: Water
Analysis Batch: 536349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	20.0	18.4		ug/L		92	68 - 121	1	33
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		74 - 120						
Dibromofluoromethane (Surr)	92		80 - 123						
1,2-Dichloroethane-d4 (Surr)	93		72 - 123						
Toluene-d8 (Surr)	88		78 - 120						

Lab Sample ID: MB 320-536356/11
Matrix: Water
Analysis Batch: 536356

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/22/21 13:30	1
Bromoform	ND		1.0	0.19	ug/L			10/22/21 13:30	1
Bromomethane	ND		1.0	0.21	ug/L			10/22/21 13:30	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/22/21 13:30	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/22/21 13:30	1
Chloroethane	ND		1.0	0.24	ug/L			10/22/21 13:30	1
Chloroform	ND		1.0	0.12	ug/L			10/22/21 13:30	1
Chloromethane	ND		1.0	0.26	ug/L			10/22/21 13:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/22/21 13:30	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/22/21 13:30	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/22/21 13:30	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/22/21 13:30	1
EDB	ND		0.50	0.12	ug/L			10/22/21 13:30	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/22/21 13:30	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/22/21 13:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/22/21 13:30	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/22/21 13:30	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/22/21 13:30	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/22/21 13:30	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/22/21 13:30	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/22/21 13:30	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/22/21 13:30	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/22/21 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/22/21 13:30	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/22/21 13:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/22/21 13:30	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/22/21 13:30	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/22/21 13:30	1
Trichloroethene	ND		0.50	0.10	ug/L			10/22/21 13:30	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/22/21 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/22/21 13:30	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/22/21 13:30	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		74 - 120				10/22/21 13:30	1	

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-536356/11
Matrix: Water
Analysis Batch: 536356

Client Sample ID: Method Blank
Prep Type: Total/NA

<u>Surrogate</u>	<u>MB</u>	<u>MB</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	99		80 - 123		10/22/21 13:30	1
1,2-Dichloroethane-d4 (Surr)	88		72 - 123		10/22/21 13:30	1
Toluene-d8 (Surr)	96		78 - 120		10/22/21 13:30	1

Lab Sample ID: LCS 320-536356/6
Matrix: Water
Analysis Batch: 536356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

<u>Analyte</u>	<u>Spike</u>	<u>LCS</u>	<u>LCS</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u>
	Added	Result	Qualifier				Limits
Dichlorobromomethane	20.0	19.6		ug/L		98	80 - 124
Bromoform	20.0	22.3		ug/L		111	80 - 120
Bromomethane	20.0	22.8		ug/L		114	65 - 132
Carbon tetrachloride	20.0	22.8		ug/L		114	78 - 124
Chlorobenzene	20.0	19.1		ug/L		96	78 - 120
Chloroethane	20.0	22.2		ug/L		111	65 - 123
Chloroform	20.0	19.9		ug/L		100	80 - 120
Chloromethane	20.0	20.0		ug/L		100	62 - 129
Chlorodibromomethane	20.0	21.2		ug/L		106	80 - 122
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	77 - 120
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	78 - 120
1,4-Dichlorobenzene	20.0	19.3		ug/L		97	74 - 120
EDB	20.0	19.4		ug/L		97	78 - 120
Dichlorodifluoromethane	20.0	18.7		ug/L		93	39 - 161
1,1-Dichloroethane	20.0	20.5		ug/L		103	79 - 120
1,2-Dichloroethane	20.0	19.0		ug/L		95	77 - 128
1,1-Dichloroethene	20.0	20.8		ug/L		104	74 - 120
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	78 - 120
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	76 - 120
1,2-Dichloropropane	20.0	19.5		ug/L		97	75 - 125
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	80 - 131
trans-1,3-Dichloropropene	20.0	19.5		ug/L		98	75 - 133
Methylene Chloride	20.0	19.7		ug/L		99	77 - 120
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	74 - 137
Tetrachloroethene	20.0	20.1		ug/L		101	74 - 120
1,2,4-Trichlorobenzene	20.0	16.5		ug/L		83	61 - 130
1,1,1-Trichloroethane	20.0	20.7		ug/L		104	79 - 121
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	79 - 127
Trichloroethene	20.0	20.3		ug/L		101	74 - 120
Trichlorofluoromethane	20.0	20.3		ug/L		101	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.2		ug/L		106	64 - 125
Vinyl chloride	20.0	19.8		ug/L		99	68 - 121

<u>Surrogate</u>	<u>LCS</u>	<u>LCS</u>	<u>Limits</u>
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		74 - 120
Dibromofluoromethane (Surr)	104		80 - 123
1,2-Dichloroethane-d4 (Surr)	91		72 - 123
Toluene-d8 (Surr)	99		78 - 120

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-536356/7
Matrix: Water
Analysis Batch: 536356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	18.5		ug/L		92	80 - 124	6	20
Bromoform	20.0	21.7		ug/L		108	80 - 120	3	16
Bromomethane	20.0	22.9		ug/L		114	65 - 132	0	40
Carbon tetrachloride	20.0	21.1		ug/L		105	78 - 124	8	25
Chlorobenzene	20.0	19.3		ug/L		97	78 - 120	1	15
Chloroethane	20.0	23.1		ug/L		116	65 - 123	4	40
Chloroform	20.0	19.1		ug/L		95	80 - 120	4	22
Chloromethane	20.0	21.8		ug/L		109	62 - 129	9	25
Chlorodibromomethane	20.0	20.5		ug/L		103	80 - 122	3	17
1,2-Dichlorobenzene	20.0	18.4		ug/L		92	77 - 120	1	19
1,3-Dichlorobenzene	20.0	19.1		ug/L		95	78 - 120	2	17
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	74 - 120	1	15
EDB	20.0	19.1		ug/L		95	78 - 120	2	15
Dichlorodifluoromethane	20.0	18.5		ug/L		92	39 - 161	1	51
1,1-Dichloroethane	20.0	19.7		ug/L		99	79 - 120	4	21
1,2-Dichloroethane	20.0	17.5		ug/L		87	77 - 128	9	25
1,1-Dichloroethene	20.0	20.5		ug/L		103	74 - 120	1	22
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	78 - 120	2	18
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	76 - 120	4	20
1,2-Dichloropropane	20.0	19.4		ug/L		97	75 - 125	0	27
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	80 - 131	2	24
trans-1,3-Dichloropropene	20.0	19.1		ug/L		95	75 - 133	2	29
Methylene Chloride	20.0	19.6		ug/L		98	77 - 120	1	20
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	74 - 137	1	27
Tetrachloroethene	20.0	19.6		ug/L		98	74 - 120	3	18
1,2,4-Trichlorobenzene	20.0	17.3		ug/L		86	61 - 130	4	40
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	79 - 121	6	25
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	79 - 127	0	30
Trichloroethene	20.0	19.7		ug/L		99	74 - 120	3	20
Trichlorofluoromethane	20.0	19.2		ug/L		96	60 - 135	5	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.3		ug/L		106	64 - 125	1	40
Vinyl chloride	20.0	21.2		ug/L		106	68 - 121	7	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		74 - 120
Dibromofluoromethane (Surr)	103		80 - 123
1,2-Dichloroethane-d4 (Surr)	86		72 - 123
Toluene-d8 (Surr)	100		78 - 120

Lab Sample ID: MB 320-536611/8
Matrix: Water
Analysis Batch: 536611

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/23/21 11:52	1
Bromoform	ND		1.0	0.19	ug/L			10/23/21 11:52	1
Bromomethane	ND		1.0	0.21	ug/L			10/23/21 11:52	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-536611/8
Matrix: Water
Analysis Batch: 536611

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/23/21 11:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/23/21 11:52	1
Chloroethane	ND		1.0	0.24	ug/L			10/23/21 11:52	1
Chloroform	ND		1.0	0.12	ug/L			10/23/21 11:52	1
Chloromethane	ND		1.0	0.26	ug/L			10/23/21 11:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/23/21 11:52	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/23/21 11:52	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/23/21 11:52	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/23/21 11:52	1
EDB	ND		0.50	0.12	ug/L			10/23/21 11:52	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/23/21 11:52	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/23/21 11:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/23/21 11:52	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/23/21 11:52	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/23/21 11:52	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/23/21 11:52	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/23/21 11:52	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/23/21 11:52	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/23/21 11:52	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/23/21 11:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/23/21 11:52	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/23/21 11:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/23/21 11:52	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/23/21 11:52	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/23/21 11:52	1
Trichloroethene	ND		0.50	0.10	ug/L			10/23/21 11:52	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/23/21 11:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/23/21 11:52	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/23/21 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		74 - 120		10/23/21 11:52	1
Dibromofluoromethane (Surr)	89		80 - 123		10/23/21 11:52	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 123		10/23/21 11:52	1
Toluene-d8 (Surr)	87		78 - 120		10/23/21 11:52	1

Lab Sample ID: LCS 320-536611/4
Matrix: Water
Analysis Batch: 536611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	20.0	18.3		ug/L		92	80 - 124
Bromoform	20.0	17.8		ug/L		89	80 - 120
Bromomethane	20.0	18.6		ug/L		93	65 - 132
Carbon tetrachloride	20.0	18.3		ug/L		92	78 - 124
Chlorobenzene	20.0	17.3		ug/L		87	78 - 120
Chloroethane	20.0	17.7		ug/L		88	65 - 123
Chloroform	20.0	17.6		ug/L		88	80 - 120

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-536611/4
Matrix: Water
Analysis Batch: 536611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	17.7		ug/L		88	62 - 129
Chlorodibromomethane	20.0	19.0		ug/L		95	80 - 122
1,2-Dichlorobenzene	20.0	17.3		ug/L		87	77 - 120
1,3-Dichlorobenzene	20.0	17.2		ug/L		86	78 - 120
1,4-Dichlorobenzene	20.0	17.3		ug/L		87	74 - 120
EDB	20.0	17.4		ug/L		87	78 - 120
Dichlorodifluoromethane	20.0	19.2		ug/L		96	39 - 161
1,1-Dichloroethane	20.0	17.1		ug/L		86	79 - 120
1,2-Dichloroethane	20.0	17.7		ug/L		88	77 - 128
1,1-Dichloroethene	20.0	17.7		ug/L		89	74 - 120
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	78 - 120
trans-1,2-Dichloroethene	20.0	17.3		ug/L		87	76 - 120
1,2-Dichloropropane	20.0	18.5		ug/L		92	75 - 125
cis-1,3-Dichloropropene	20.0	19.1		ug/L		95	80 - 131
trans-1,3-Dichloropropene	20.0	19.7		ug/L		99	75 - 133
Methylene Chloride	20.0	17.4		ug/L		87	77 - 120
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/L		91	74 - 137
Tetrachloroethene	20.0	17.8		ug/L		89	74 - 120
1,2,4-Trichlorobenzene	20.0	18.0		ug/L		90	61 - 130
1,1,1-Trichloroethane	20.0	18.2		ug/L		91	79 - 121
1,1,2-Trichloroethane	20.0	17.9		ug/L		90	79 - 127
Trichloroethene	20.0	17.6		ug/L		88	74 - 120
Trichlorofluoromethane	20.0	18.5		ug/L		92	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.3		ug/L		91	64 - 125
Vinyl chloride	20.0	18.7		ug/L		93	68 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		74 - 120
Dibromofluoromethane (Surr)	89		80 - 123
1,2-Dichloroethane-d4 (Surr)	92		72 - 123
Toluene-d8 (Surr)	89		78 - 120

Lab Sample ID: LCSD 320-536611/5
Matrix: Water
Analysis Batch: 536611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	18.3		ug/L		91	80 - 124	0	20
Bromoform	20.0	18.4		ug/L		92	80 - 120	4	16
Bromomethane	20.0	20.1		ug/L		101	65 - 132	8	40
Carbon tetrachloride	20.0	18.2		ug/L		91	78 - 124	1	25
Chlorobenzene	20.0	17.2		ug/L		86	78 - 120	1	15
Chloroethane	20.0	18.0		ug/L		90	65 - 123	2	40
Chloroform	20.0	17.5		ug/L		87	80 - 120	1	22
Chloromethane	20.0	17.1		ug/L		85	62 - 129	3	25
Chlorodibromomethane	20.0	19.0		ug/L		95	80 - 122	0	17
1,2-Dichlorobenzene	20.0	17.4		ug/L		87	77 - 120	0	19
1,3-Dichlorobenzene	20.0	17.2		ug/L		86	78 - 120	0	17

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QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-536611/5
Matrix: Water
Analysis Batch: 536611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	17.0		ug/L		85	74 - 120	1	15
EDB	20.0	17.4		ug/L		87	78 - 120	0	15
Dichlorodifluoromethane	20.0	19.1		ug/L		95	39 - 161	1	51
1,1-Dichloroethane	20.0	17.1		ug/L		85	79 - 120	0	21
1,2-Dichloroethane	20.0	17.6		ug/L		88	77 - 128	1	25
1,1-Dichloroethene	20.0	17.8		ug/L		89	74 - 120	1	22
cis-1,2-Dichloroethene	20.0	17.3		ug/L		86	78 - 120	1	18
trans-1,2-Dichloroethene	20.0	17.2		ug/L		86	76 - 120	1	20
1,2-Dichloropropane	20.0	18.3		ug/L		91	75 - 125	1	27
cis-1,3-Dichloropropene	20.0	18.7		ug/L		94	80 - 131	2	24
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	75 - 133	2	29
Methylene Chloride	20.0	17.3		ug/L		86	77 - 120	1	20
1,1,2,2-Tetrachloroethane	20.0	18.4		ug/L		92	74 - 137	1	27
Tetrachloroethene	20.0	17.3		ug/L		87	74 - 120	2	18
1,2,4-Trichlorobenzene	20.0	18.1		ug/L		91	61 - 130	0	40
1,1,1-Trichloroethane	20.0	17.8		ug/L		89	79 - 121	2	25
1,1,2-Trichloroethane	20.0	17.7		ug/L		89	79 - 127	1	30
Trichloroethene	20.0	17.1		ug/L		86	74 - 120	3	20
Trichlorofluoromethane	20.0	18.7		ug/L		93	60 - 135	1	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.3		ug/L		92	64 - 125	0	40
Vinyl chloride	20.0	18.4		ug/L		92	68 - 121	1	33

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	93		74 - 120
Dibromofluoromethane (Surr)	91		80 - 123
1,2-Dichloroethane-d4 (Surr)	92		72 - 123
Toluene-d8 (Surr)	88		78 - 120

Lab Sample ID: MB 320-536913/7
Matrix: Water
Analysis Batch: 536913

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/25/21 12:16	1
Bromoform	ND		1.0	0.19	ug/L			10/25/21 12:16	1
Bromomethane	ND		1.0	0.21	ug/L			10/25/21 12:16	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/25/21 12:16	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/25/21 12:16	1
Chloroethane	ND		1.0	0.24	ug/L			10/25/21 12:16	1
Chloroform	ND		1.0	0.12	ug/L			10/25/21 12:16	1
Chloromethane	ND		1.0	0.26	ug/L			10/25/21 12:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/25/21 12:16	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/25/21 12:16	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/25/21 12:16	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/25/21 12:16	1
EDB	ND		0.50	0.12	ug/L			10/25/21 12:16	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/25/21 12:16	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/25/21 12:16	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-536913/7
Matrix: Water
Analysis Batch: 536913

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/25/21 12:16	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/25/21 12:16	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/25/21 12:16	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/25/21 12:16	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/25/21 12:16	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/25/21 12:16	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/25/21 12:16	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/25/21 12:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/25/21 12:16	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/25/21 12:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/25/21 12:16	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/25/21 12:16	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/25/21 12:16	1
Trichloroethene	ND		0.50	0.10	ug/L			10/25/21 12:16	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/25/21 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/25/21 12:16	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/25/21 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		74 - 120		10/25/21 12:16	1
Dibromofluoromethane (Surr)	109		80 - 123		10/25/21 12:16	1
1,2-Dichloroethane-d4 (Surr)	116		72 - 123		10/25/21 12:16	1
Toluene-d8 (Surr)	100		78 - 120		10/25/21 12:16	1

Lab Sample ID: LCS 320-536913/3
Matrix: Water
Analysis Batch: 536913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	20.0	21.1		ug/L		106	80 - 124
Bromoform	20.0	19.1		ug/L		96	80 - 120
Bromomethane	20.0	18.8		ug/L		94	65 - 132
Carbon tetrachloride	20.0	21.3		ug/L		106	78 - 124
Chlorobenzene	20.0	19.9		ug/L		99	78 - 120
Chloroethane	20.0	19.0		ug/L		95	65 - 123
Chloroform	20.0	20.7		ug/L		104	80 - 120
Chloromethane	20.0	17.4		ug/L		87	62 - 129
Chlorodibromomethane	20.0	21.1		ug/L		106	80 - 122
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	77 - 120
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	78 - 120
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	74 - 120
EDB	20.0	21.1		ug/L		106	78 - 120
Dichlorodifluoromethane	20.0	15.6		ug/L		78	39 - 161
1,1-Dichloroethane	20.0	19.6		ug/L		98	79 - 120
1,2-Dichloroethane	20.0	20.9		ug/L		105	77 - 128
1,1-Dichloroethene	20.0	20.2		ug/L		101	74 - 120
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	78 - 120
trans-1,2-Dichloroethene	20.0	19.3		ug/L		97	76 - 120

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-536913/3
Matrix: Water
Analysis Batch: 536913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.1		ug/L		105	75 - 125
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	80 - 131
trans-1,3-Dichloropropene	20.0	20.9		ug/L		105	75 - 133
Methylene Chloride	20.0	20.6		ug/L		103	77 - 120
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	74 - 137
Tetrachloroethene	20.0	21.2		ug/L		106	74 - 120
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	61 - 130
1,1,1-Trichloroethane	20.0	21.1		ug/L		106	79 - 121
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	79 - 127
Trichloroethene	20.0	20.4		ug/L		102	74 - 120
Trichlorofluoromethane	20.0	21.0		ug/L		105	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.9		ug/L		100	64 - 125
Vinyl chloride	20.0	18.3		ug/L		91	68 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		74 - 120
Dibromofluoromethane (Surr)	111		80 - 123
1,2-Dichloroethane-d4 (Surr)	114		72 - 123
Toluene-d8 (Surr)	105		78 - 120

Lab Sample ID: LCSD 320-536913/4
Matrix: Water
Analysis Batch: 536913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Dichlorobromomethane	20.0	22.5		ug/L		112	80 - 124	6	20
Bromoform	20.0	20.5		ug/L		102	80 - 120	7	16
Bromomethane	20.0	18.7		ug/L		93	65 - 132	1	40
Carbon tetrachloride	20.0	21.1		ug/L		105	78 - 124	1	25
Chlorobenzene	20.0	20.5		ug/L		103	78 - 120	3	15
Chloroethane	20.0	17.5		ug/L		88	65 - 123	8	40
Chloroform	20.0	21.3		ug/L		106	80 - 120	3	22
Chloromethane	20.0	17.0		ug/L		85	62 - 129	2	25
Chlorodibromomethane	20.0	21.7		ug/L		109	80 - 122	3	17
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	77 - 120	6	19
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	78 - 120	6	17
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	74 - 120	7	15
EDB	20.0	21.6		ug/L		108	78 - 120	2	15
Dichlorodifluoromethane	20.0	15.4		ug/L		77	39 - 161	1	51
1,1-Dichloroethane	20.0	19.9		ug/L		99	79 - 120	2	21
1,2-Dichloroethane	20.0	21.4		ug/L		107	77 - 128	2	25
1,1-Dichloroethene	20.0	20.1		ug/L		101	74 - 120	0	22
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	78 - 120	4	18
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	76 - 120	2	20
1,2-Dichloropropane	20.0	21.4		ug/L		107	75 - 125	1	27
cis-1,3-Dichloropropene	20.0	22.0		ug/L		110	80 - 131	5	24
trans-1,3-Dichloropropene	20.0	22.4		ug/L		112	75 - 133	7	29
Methylene Chloride	20.0	21.4		ug/L		107	77 - 120	4	20

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-536913/4
Matrix: Water
Analysis Batch: 536913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	74 - 137	4	27
Tetrachloroethene	20.0	21.1		ug/L		105	74 - 120	1	18
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	61 - 130	5	40
1,1,1-Trichloroethane	20.0	21.4		ug/L		107	79 - 121	1	25
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	79 - 127	2	30
Trichloroethene	20.0	20.8		ug/L		104	74 - 120	2	20
Trichlorofluoromethane	20.0	20.1		ug/L		100	60 - 135	4	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.0		ug/L		100	64 - 125	0	40
Vinyl chloride	20.0	17.8		ug/L		89	68 - 121	2	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		74 - 120
Dibromofluoromethane (Surr)	109		80 - 123
1,2-Dichloroethane-d4 (Surr)	113		72 - 123
Toluene-d8 (Surr)	105		78 - 120

Lab Sample ID: MB 320-537169/10
Matrix: Water
Analysis Batch: 537169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50	0.14	ug/L			10/26/21 12:59	1
Bromoform	ND		1.0	0.19	ug/L			10/26/21 12:59	1
Bromomethane	ND		1.0	0.21	ug/L			10/26/21 12:59	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			10/26/21 12:59	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/26/21 12:59	1
Chloroethane	ND		1.0	0.24	ug/L			10/26/21 12:59	1
Chloroform	ND		1.0	0.12	ug/L			10/26/21 12:59	1
Chloromethane	ND		1.0	0.26	ug/L			10/26/21 12:59	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			10/26/21 12:59	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			10/26/21 12:59	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			10/26/21 12:59	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			10/26/21 12:59	1
EDB	ND		0.50	0.12	ug/L			10/26/21 12:59	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			10/26/21 12:59	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/26/21 12:59	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			10/26/21 12:59	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			10/26/21 12:59	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			10/26/21 12:59	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/26/21 12:59	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			10/26/21 12:59	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			10/26/21 12:59	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			10/26/21 12:59	1
Methylene Chloride	ND		1.0	0.16	ug/L			10/26/21 12:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			10/26/21 12:59	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/26/21 12:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			10/26/21 12:59	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/26/21 12:59	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-537169/10
Matrix: Water
Analysis Batch: 537169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			10/26/21 12:59	1
Trichloroethene	ND		0.50	0.10	ug/L			10/26/21 12:59	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			10/26/21 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			10/26/21 12:59	1
Vinyl chloride	ND		0.50	0.18	ug/L			10/26/21 12:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		74 - 120		10/26/21 12:59	1
Dibromofluoromethane (Surr)	99		80 - 123		10/26/21 12:59	1
1,2-Dichloroethane-d4 (Surr)	86		72 - 123		10/26/21 12:59	1
Toluene-d8 (Surr)	94		78 - 120		10/26/21 12:59	1

Lab Sample ID: LCS 320-537169/3
Matrix: Water
Analysis Batch: 537169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	20.0	20.4		ug/L		102	80 - 124
Bromoform	20.0	23.6		ug/L		118	80 - 120
Bromomethane	20.0	23.1		ug/L		116	65 - 132
Carbon tetrachloride	20.0	23.5		ug/L		117	78 - 124
Chlorobenzene	20.0	20.8		ug/L		104	78 - 120
Chloroethane	20.0	24.7		ug/L		123	65 - 123
Chloroform	20.0	20.5		ug/L		102	80 - 120
Chloromethane	20.0	22.4		ug/L		112	62 - 129
Chlorodibromomethane	20.0	22.7		ug/L		113	80 - 122
1,2-Dichlorobenzene	20.0	20.1		ug/L		100	77 - 120
1,3-Dichlorobenzene	20.0	21.5		ug/L		108	78 - 120
1,4-Dichlorobenzene	20.0	21.1		ug/L		106	74 - 120
EDB	20.0	20.6		ug/L		103	78 - 120
Dichlorodifluoromethane	20.0	18.8		ug/L		94	39 - 161
1,1-Dichloroethane	20.0	21.4		ug/L		107	79 - 120
1,2-Dichloroethane	20.0	17.9		ug/L		90	77 - 128
1,1-Dichloroethene	20.0	22.3		ug/L		111	74 - 120
cis-1,2-Dichloroethene	20.0	21.9		ug/L		109	78 - 120
trans-1,2-Dichloroethene	20.0	22.4		ug/L		112	76 - 120
1,2-Dichloropropane	20.0	21.5		ug/L		107	75 - 125
cis-1,3-Dichloropropene	20.0	20.9		ug/L		105	80 - 131
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	75 - 133
Methylene Chloride	20.0	21.3		ug/L		106	77 - 120
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	74 - 137
Tetrachloroethene	20.0	21.8		ug/L		109	74 - 120
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	61 - 130
1,1,1-Trichloroethane	20.0	21.4		ug/L		107	79 - 121
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	79 - 127
Trichloroethene	20.0	21.3		ug/L		106	74 - 120
Trichlorofluoromethane	20.0	20.4		ug/L		102	60 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.5		ug/L		117	64 - 125

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-537169/3
Matrix: Water
Analysis Batch: 537169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	22.5		ug/L		113	68 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		74 - 120
Dibromofluoromethane (Surr)	96		80 - 123
1,2-Dichloroethane-d4 (Surr)	78		72 - 123
Toluene-d8 (Surr)	96		78 - 120

Lab Sample ID: LCSD 320-537169/4
Matrix: Water
Analysis Batch: 537169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorobromomethane	20.0	19.9		ug/L		99	80 - 124	3	20
Bromoform	20.0	23.9		ug/L		119	80 - 120	1	16
Bromomethane	20.0	23.7		ug/L		118	65 - 132	2	40
Carbon tetrachloride	20.0	22.9		ug/L		115	78 - 124	2	25
Chlorobenzene	20.0	20.9		ug/L		104	78 - 120	1	15
Chloroethane	20.0	23.5		ug/L		117	65 - 123	5	40
Chloroform	20.0	19.7		ug/L		99	80 - 120	4	22
Chloromethane	20.0	22.3		ug/L		112	62 - 129	0	25
Chlorodibromomethane	20.0	22.6		ug/L		113	80 - 122	0	17
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	77 - 120	0	19
1,3-Dichlorobenzene	20.0	21.8		ug/L		109	78 - 120	1	17
1,4-Dichlorobenzene	20.0	21.3		ug/L		106	74 - 120	1	15
EDB	20.0	20.9		ug/L		104	78 - 120	1	15
Dichlorodifluoromethane	20.0	18.6		ug/L		93	39 - 161	1	51
1,1-Dichloroethane	20.0	20.9		ug/L		105	79 - 120	2	21
1,2-Dichloroethane	20.0	17.3		ug/L		87	77 - 128	4	25
1,1-Dichloroethene	20.0	22.4		ug/L		112	74 - 120	1	22
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	78 - 120	2	18
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	76 - 120	3	20
1,2-Dichloropropane	20.0	21.2		ug/L		106	75 - 125	1	27
cis-1,3-Dichloropropene	20.0	20.9		ug/L		105	80 - 131	0	24
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	75 - 133	0	29
Methylene Chloride	20.0	20.7		ug/L		104	77 - 120	2	20
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		103	74 - 137	0	27
Tetrachloroethene	20.0	22.1		ug/L		110	74 - 120	1	18
1,2,4-Trichlorobenzene	20.0	18.5		ug/L		93	61 - 130	2	40
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	79 - 121	3	25
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	79 - 127	0	30
Trichloroethene	20.0	21.1		ug/L		106	74 - 120	1	20
Trichlorofluoromethane	20.0	20.2		ug/L		101	60 - 135	1	41
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.9		ug/L		115	64 - 125	2	40
Vinyl chloride	20.0	22.2		ug/L		111	68 - 121	1	33

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-537169/4
 Matrix: Water
 Analysis Batch: 537169

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		74 - 120
Dibromofluoromethane (Surr)	96		80 - 123
1,2-Dichloroethane-d4 (Surr)	76		72 - 123
Toluene-d8 (Surr)	99		78 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-509082/3
 Matrix: Water
 Analysis Batch: 509082

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methane	ND		1.0	0.17	ug/L			10/20/21 14:30	1
Ethane	ND		1.0	0.29	ug/L			10/20/21 14:30	1
Ethylene	ND		1.0	0.27	ug/L			10/20/21 14:30	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,1,1-Trifluoroethane	110		60 - 140		10/20/21 14:30	1

Lab Sample ID: LCS 240-509082/4
 Matrix: Water
 Analysis Batch: 509082

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Methane	284	278		ug/L		98	80 - 120
Ethane	537	543		ug/L		101	80 - 120
Ethylene	506	500		ug/L		99	80 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,1,1-Trifluoroethane	106		60 - 140

Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 240-509637/4
 Matrix: Water
 Analysis Batch: 509637

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Organic Carbon	ND		1.0	0.35	mg/L			10/21/21 07:33	1

Lab Sample ID: LCS 240-509637/6
 Matrix: Water
 Analysis Batch: 509637

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Total Organic Carbon	46.0	46.9		mg/L		102	85 - 115
TOC Result 1	46.0	47.0		mg/L		102	85 - 115
TOC Result 2	46.0	46.8		mg/L		102	85 - 115

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Method: 5310C-2011 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: LLCS 240-509637/5
Matrix: Water
Analysis Batch: 509637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4.60	4.77		mg/L		104	88 - 115
TOC Result 1	4.60	4.77		mg/L		104	88 - 115
TOC Result 2	4.60	4.77		mg/L		104	88 - 115

Lab Sample ID: 320-80333-14 MS
Matrix: Water
Analysis Batch: 509637

Client Sample ID: J6038-T25BS-101221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.95	J	25.0	23.4		mg/L		90	65 - 134
TOC Result 1	0.96	J	25.0	23.2		mg/L		89	65 - 134
TOC Result 2	0.94	J	25.0	23.6		mg/L		91	65 - 134

Lab Sample ID: 320-80333-14 MSD
Matrix: Water
Analysis Batch: 509637

Client Sample ID: J6038-T25BS-101221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.95	J	25.0	23.4		mg/L		90	65 - 134	0	10
TOC Result 1	0.96	J	25.0	23.2		mg/L		89	65 - 134	0	10
TOC Result 2	0.94	J	25.0	23.6		mg/L		91	65 - 134	0	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 320-534959/7
Matrix: Water
Analysis Batch: 534959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	5.0	mg/L			10/15/21 13:46	1

Lab Sample ID: LCS 320-534959/8
Matrix: Water
Analysis Batch: 534959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	1000	975		mg/L		98	90 - 110

QC Association Summary

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

GC/MS VOA

Analysis Batch: 536266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-1	TRIPBLANK-J6038-101121	Total/NA	Water	8260B	
320-80333-2	J6038-T9A-101121	Total/NA	Water	8260B	
320-80333-3	J6038-T19A-101121	Total/NA	Water	8260B	
320-80333-4	J6038-T14A-101121	Total/NA	Water	8260B	
320-80333-5	J6038-T13A-101121	Total/NA	Water	8260B	
320-80333-6	J6038-T23A-101121	Total/NA	Water	8260B	
320-80333-7	J6038-T25A-101121	Total/NA	Water	8260B	
MB 320-536266/8	Method Blank	Total/NA	Water	8260B	
LCS 320-536266/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-536266/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 536344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-13	J6038-38S-101221	Total/NA	Water	8260B	
320-80333-15	J6038-T25BD-101221	Total/NA	Water	8260B	
MB 320-536344/7	Method Blank	Total/NA	Water	8260B	
LCS 320-536344/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-536344/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 536349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-17	J6038-T23B-101221	Total/NA	Water	8260B	
320-80333-18	J6038-T10B-101221	Total/NA	Water	8260B	
320-80333-19	J6038-T16A-101221	Total/NA	Water	8260B	
320-80333-20	J6038-T10C-101221	Total/NA	Water	8260B	
320-80333-21	J6038-T8B-101221	Total/NA	Water	8260B	
320-80333-22	J6038-T8A-101221	Total/NA	Water	8260B	
320-80333-23	J6038-T11C-101221-1	Total/NA	Water	8260B	
320-80333-24	J6038-T11C-101221-2	Total/NA	Water	8260B	
320-80333-25	J6038-T7B-101221-1	Total/NA	Water	8260B	
320-80333-26	J6038-T7B-101221-2	Total/NA	Water	8260B	
320-80333-27	J6038-T7A-101221-1	Total/NA	Water	8260B	
320-80333-28	J6038-T7A-101221-2	Total/NA	Water	8260B	
320-80333-29	J6038-T22B-101221	Total/NA	Water	8260B	
MB 320-536349/8	Method Blank	Total/NA	Water	8260B	
LCS 320-536349/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-536349/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 536356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-2 - DL	J6038-T9A-101121	Total/NA	Water	8260B	
320-80333-8	TRIPBLANK-J6038-101221	Total/NA	Water	8260B	
320-80333-9	J6038-T15A-101221	Total/NA	Water	8260B	
320-80333-10	J6038-T17A-101221	Total/NA	Water	8260B	
320-80333-11	J6038-T17B-101221	Total/NA	Water	8260B	
320-80333-12	J6038-T4B-101221	Total/NA	Water	8260B	
MB 320-536356/11	Method Blank	Total/NA	Water	8260B	
LCS 320-536356/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-536356/7	Lab Control Sample Dup	Total/NA	Water	8260B	

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

GC/MS VOA

Analysis Batch: 536611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-16	J6038-T24B-101221	Total/NA	Water	8260B	
MB 320-536611/8	Method Blank	Total/NA	Water	8260B	
LCS 320-536611/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-536611/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 536913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-14	J6038-T25BS-101221	Total/NA	Water	8260B	
320-80333-21 - DL	J6038-T8B-101221	Total/NA	Water	8260B	
320-80333-29 - DL	J6038-T22B-101221	Total/NA	Water	8260B	
320-80333-30	TRIPBLANK-J6038-101321	Total/NA	Water	8260B	
320-80333-31	J6038-T5B-101321-1	Total/NA	Water	8260B	
320-80333-32	J6038-T5B-101321-2	Total/NA	Water	8260B	
320-80333-33	J6038-T21B-101321	Total/NA	Water	8260B	
320-80333-34	J6038-T18B-101321	Total/NA	Water	8260B	
320-80333-35	J6038-T20B-101321	Total/NA	Water	8260B	
320-80333-36	J6038-T12C-101321	Total/NA	Water	8260B	
320-80333-37	J6038-T9C-101321	Total/NA	Water	8260B	
320-80333-38	J6038-T19B-101321	Total/NA	Water	8260B	
MB 320-536913/7	Method Blank	Total/NA	Water	8260B	
LCS 320-536913/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-536913/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 537169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-31 - DL	J6038-T5B-101321-1	Total/NA	Water	8260B	
MB 320-537169/10	Method Blank	Total/NA	Water	8260B	
LCS 320-537169/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-537169/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 509082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-14	J6038-T25BS-101221	Total/NA	Water	RSK-175	
320-80333-18	J6038-T10B-101221	Total/NA	Water	RSK-175	
320-80333-21	J6038-T8B-101221	Total/NA	Water	RSK-175	
MB 240-509082/3	Method Blank	Total/NA	Water	RSK-175	
LCS 240-509082/4	Lab Control Sample	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 509637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-14	J6038-T25BS-101221	Total/NA	Water	5310C-2011	
320-80333-18	J6038-T10B-101221	Total/NA	Water	5310C-2011	
320-80333-21	J6038-T8B-101221	Total/NA	Water	5310C-2011	
MB 240-509637/4	Method Blank	Total/NA	Water	5310C-2011	
LCS 240-509637/6	Lab Control Sample	Total/NA	Water	5310C-2011	
LLCS 240-509637/5	Lab Control Sample	Total/NA	Water	5310C-2011	
320-80333-14 MS	J6038-T25BS-101221	Total/NA	Water	5310C-2011	
320-80333-14 MSD	J6038-T25BS-101221	Total/NA	Water	5310C-2011	

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

General Chemistry

Analysis Batch: 534959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-80333-14	J6038-T25BS-101221	Total/NA	Water	SM 2320B	
320-80333-18	J6038-T10B-101221	Total/NA	Water	SM 2320B	
320-80333-21	J6038-T8B-101221	Total/NA	Water	SM 2320B	
MB 320-534959/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 320-534959/8	Lab Control Sample	Total/NA	Water	SM 2320B	

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Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: TRIPBLANK-J6038-101121

Lab Sample ID: 320-80333-1

Date Collected: 10/11/21 08:00

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536266	10/22/21 00:43	EMJ	TAL SAC

Client Sample ID: J6038-T9A-101121

Lab Sample ID: 320-80333-2

Date Collected: 10/11/21 11:46

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536266	10/22/21 01:52	EMJ	TAL SAC
Total/NA	Analysis	8260B	DL	2	50 mL	50 mL	536356	10/22/21 20:03	SS	TAL SAC

Client Sample ID: J6038-T19A-101121

Lab Sample ID: 320-80333-3

Date Collected: 10/11/21 13:08

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536266	10/22/21 02:16	EMJ	TAL SAC

Client Sample ID: J6038-T14A-101121

Lab Sample ID: 320-80333-4

Date Collected: 10/11/21 13:36

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536266	10/22/21 02:39	EMJ	TAL SAC

Client Sample ID: J6038-T13A-101121

Lab Sample ID: 320-80333-5

Date Collected: 10/11/21 14:10

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536266	10/22/21 05:21	EMJ	TAL SAC

Client Sample ID: J6038-T23A-101121

Lab Sample ID: 320-80333-6

Date Collected: 10/11/21 14:40

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536266	10/22/21 03:02	EMJ	TAL SAC

Client Sample ID: J6038-T25A-101121

Lab Sample ID: 320-80333-7

Date Collected: 10/11/21 15:07

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536266	10/22/21 03:25	EMJ	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: TRIPBLANK-J6038-101221

Lab Sample ID: 320-80333-8

Date Collected: 10/12/21 08:00

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536356	10/22/21 13:53	SS	TAL SAC

Client Sample ID: J6038-T15A-101221

Lab Sample ID: 320-80333-9

Date Collected: 10/12/21 08:49

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536356	10/22/21 20:26	SS	TAL SAC

Client Sample ID: J6038-T17A-101221

Lab Sample ID: 320-80333-10

Date Collected: 10/12/21 09:20

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536356	10/22/21 19:40	SS	TAL SAC

Client Sample ID: J6038-T17B-101221

Lab Sample ID: 320-80333-11

Date Collected: 10/12/21 09:45

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536356	10/22/21 20:49	SS	TAL SAC

Client Sample ID: J6038-T4B-101221

Lab Sample ID: 320-80333-12

Date Collected: 10/12/21 10:17

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536356	10/22/21 21:12	SS	TAL SAC

Client Sample ID: J6038-38S-101221

Lab Sample ID: 320-80333-13

Date Collected: 10/12/21 10:50

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536344	10/22/21 17:06	AP1	TAL SAC

Client Sample ID: J6038-T25BS-101221

Lab Sample ID: 320-80333-14

Date Collected: 10/12/21 11:17

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	50 mL	50 mL	536913	10/25/21 18:05	AP1	TAL SAC
Total/NA	Analysis	RSK-175		1	23 mL	23 mL	509082	10/20/21 21:14	JBN	TAL CAN
Total/NA	Analysis	5310C-2011		1	40 mL	40 mL	509637	10/21/21 08:14	TPH	TAL CAN
Total/NA	Analysis	SM 2320B		1			534959	10/15/21 17:25	KDB	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T25BD-101221

Lab Sample ID: 320-80333-15

Date Collected: 10/12/21 11:44

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536344	10/22/21 17:52	AP1	TAL SAC

Client Sample ID: J6038-T24B-101221

Lab Sample ID: 320-80333-16

Date Collected: 10/12/21 11:30

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536611	10/23/21 18:20	SS	TAL SAC

Client Sample ID: J6038-T23B-101221

Lab Sample ID: 320-80333-17

Date Collected: 10/12/21 11:01

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536349	10/22/21 18:06	SS	TAL SAC

Client Sample ID: J6038-T10B-101221

Lab Sample ID: 320-80333-18

Date Collected: 10/12/21 09:35

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536349	10/22/21 15:50	SS	TAL SAC
Total/NA	Analysis	RSK-175		1	23 mL	23 mL	509082	10/20/21 21:31	JBN	TAL CAN
Total/NA	Analysis	5310C-2011		1	40 mL	40 mL	509637	10/21/21 09:14	TPH	TAL CAN
Total/NA	Analysis	SM 2320B		1			534959	10/15/21 17:35	KDB	TAL SAC

Client Sample ID: J6038-T16A-101221

Lab Sample ID: 320-80333-19

Date Collected: 10/12/21 08:55

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536349	10/22/21 16:13	SS	TAL SAC

Client Sample ID: J6038-T10C-101221

Lab Sample ID: 320-80333-20

Date Collected: 10/12/21 12:55

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	50 mL	50 mL	536349	10/22/21 20:00	SS	TAL SAC

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80333-21

Date Collected: 10/12/21 13:35

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	50 mL	50 mL	536913	10/25/21 18:28	AP1	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T8B-101221

Lab Sample ID: 320-80333-21

Date Collected: 10/12/21 13:35

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536349	10/22/21 13:57	SS	TAL SAC
Total/NA	Analysis	RSK-175		1	23 mL	23 mL	509082	10/20/21 21:49	JBN	TAL CAN
Total/NA	Analysis	5310C-2011		1	40 mL	40 mL	509637	10/21/21 09:28	TPH	TAL CAN
Total/NA	Analysis	SM 2320B		1			534959	10/15/21 17:16	KDB	TAL SAC

Client Sample ID: J6038-T8A-101221

Lab Sample ID: 320-80333-22

Date Collected: 10/12/21 14:10

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536349	10/22/21 14:20	SS	TAL SAC

Client Sample ID: J6038-T11C-101221-1

Lab Sample ID: 320-80333-23

Date Collected: 10/12/21 13:05

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536349	10/22/21 18:29	SS	TAL SAC

Client Sample ID: J6038-T11C-101221-2

Lab Sample ID: 320-80333-24

Date Collected: 10/12/21 13:10

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536349	10/22/21 18:51	SS	TAL SAC

Client Sample ID: J6038-T7B-101221-1

Lab Sample ID: 320-80333-25

Date Collected: 10/12/21 14:30

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536349	10/22/21 19:14	SS	TAL SAC

Client Sample ID: J6038-T7B-101221-2

Lab Sample ID: 320-80333-26

Date Collected: 10/12/21 14:35

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	50 mL	50 mL	536349	10/22/21 19:37	SS	TAL SAC

Client Sample ID: J6038-T7A-101221-1

Lab Sample ID: 320-80333-27

Date Collected: 10/12/21 14:50

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536349	10/22/21 16:35	SS	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T7A-101221-2

Lab Sample ID: 320-80333-28

Date Collected: 10/12/21 14:55

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	50 mL	50 mL	536349	10/22/21 16:58	SS	TAL SAC

Client Sample ID: J6038-T22B-101221

Lab Sample ID: 320-80333-29

Date Collected: 10/12/21 10:28

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	4	50 mL	50 mL	536913	10/25/21 17:18	AP1	TAL SAC
Total/NA	Analysis	8260B		1	50 mL	50 mL	536349	10/22/21 14:42	SS	TAL SAC

Client Sample ID: TRIPBLANK-J6038-101321

Lab Sample ID: 320-80333-30

Date Collected: 10/13/21 07:30

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536913	10/25/21 12:39	AP1	TAL SAC

Client Sample ID: J6038-T5B-101321-1

Lab Sample ID: 320-80333-31

Date Collected: 10/13/21 08:01

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	50 mL	50 mL	536913	10/25/21 19:37	AP1	TAL SAC
Total/NA	Analysis	8260B	DL	40	50 mL	50 mL	537169	10/26/21 18:43	SS	TAL SAC

Client Sample ID: J6038-T5B-101321-2

Lab Sample ID: 320-80333-32

Date Collected: 10/13/21 08:06

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	50 mL	50 mL	536913	10/25/21 20:00	AP1	TAL SAC

Client Sample ID: J6038-T21B-101321

Lab Sample ID: 320-80333-33

Date Collected: 10/13/21 08:41

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	50 mL	50 mL	536913	10/25/21 18:51	AP1	TAL SAC

Client Sample ID: J6038-T18B-101321

Lab Sample ID: 320-80333-34

Date Collected: 10/13/21 09:25

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536913	10/25/21 14:35	AP1	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Client Sample ID: J6038-T20B-101321

Lab Sample ID: 320-80333-35

Date Collected: 10/13/21 10:02

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	50 mL	50 mL	536913	10/25/21 19:14	AP1	TAL SAC

Client Sample ID: J6038-T12C-101321

Lab Sample ID: 320-80333-36

Date Collected: 10/13/21 11:06

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536913	10/25/21 14:59	AP1	TAL SAC

Client Sample ID: J6038-T9C-101321

Lab Sample ID: 320-80333-37

Date Collected: 10/13/21 11:35

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536913	10/25/21 15:22	AP1	TAL SAC

Client Sample ID: J6038-T19B-101321

Lab Sample ID: 320-80333-38

Date Collected: 10/13/21 12:30

Matrix: Water

Date Received: 10/14/21 11:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	536913	10/25/21 15:45	AP1	TAL SAC

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Laboratory: Eurofins TestAmerica, Canton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
RSK-175		Water	Ethane
RSK-175		Water	Ethylene
RSK-175		Water	Methane



Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: TRW Microwave

Job ID: 320-80333-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAC
RSK-175	Dissolved Gases (GC)	RSK	TAL CAN
5310C-2011	Total Organic Carbon/Persulfate - Ultrav	SM	TAL CAN
SM 2320B	Alkalinity	SM	TAL SAC
5030B	Purge and Trap	SW846	TAL SAC

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Groundwater & Environmental Services Inc
 Project/Site: TRW Microwave

Job ID: 320-80333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-80333-1	TRIPBLANK-J6038-101121	Water	10/11/21 08:00	10/14/21 11:52
320-80333-2	J6038-T9A-101121	Water	10/11/21 11:46	10/14/21 11:52
320-80333-3	J6038-T19A-101121	Water	10/11/21 13:08	10/14/21 11:52
320-80333-4	J6038-T14A-101121	Water	10/11/21 13:36	10/14/21 11:52
320-80333-5	J6038-T13A-101121	Water	10/11/21 14:10	10/14/21 11:52
320-80333-6	J6038-T23A-101121	Water	10/11/21 14:40	10/14/21 11:52
320-80333-7	J6038-T25A-101121	Water	10/11/21 15:07	10/14/21 11:52
320-80333-8	TRIPBLANK-J6038-101221	Water	10/12/21 08:00	10/14/21 11:52
320-80333-9	J6038-T15A-101221	Water	10/12/21 08:49	10/14/21 11:52
320-80333-10	J6038-T17A-101221	Water	10/12/21 09:20	10/14/21 11:52
320-80333-11	J6038-T17B-101221	Water	10/12/21 09:45	10/14/21 11:52
320-80333-12	J6038-T4B-101221	Water	10/12/21 10:17	10/14/21 11:52
320-80333-13	J6038-38S-101221	Water	10/12/21 10:50	10/14/21 11:52
320-80333-14	J6038-T25BS-101221	Water	10/12/21 11:17	10/14/21 11:52
320-80333-15	J6038-T25BD-101221	Water	10/12/21 11:44	10/14/21 11:52
320-80333-16	J6038-T24B-101221	Water	10/12/21 11:30	10/14/21 11:52
320-80333-17	J6038-T23B-101221	Water	10/12/21 11:01	10/14/21 11:52
320-80333-18	J6038-T10B-101221	Water	10/12/21 09:35	10/14/21 11:52
320-80333-19	J6038-T16A-101221	Water	10/12/21 08:55	10/14/21 11:52
320-80333-20	J6038-T10C-101221	Water	10/12/21 12:55	10/14/21 11:52
320-80333-21	J6038-T8B-101221	Water	10/12/21 13:35	10/14/21 11:52
320-80333-22	J6038-T8A-101221	Water	10/12/21 14:10	10/14/21 11:52
320-80333-23	J6038-T11C-101221-1	Water	10/12/21 13:05	10/14/21 11:52
320-80333-24	J6038-T11C-101221-2	Water	10/12/21 13:10	10/14/21 11:52
320-80333-25	J6038-T7B-101221-1	Water	10/12/21 14:30	10/14/21 11:52
320-80333-26	J6038-T7B-101221-2	Water	10/12/21 14:35	10/14/21 11:52
320-80333-27	J6038-T7A-101221-1	Water	10/12/21 14:50	10/14/21 11:52
320-80333-28	J6038-T7A-101221-2	Water	10/12/21 14:55	10/14/21 11:52
320-80333-29	J6038-T22B-101221	Water	10/12/21 10:28	10/14/21 11:52
320-80333-30	TRIPBLANK-J6038-101321	Water	10/13/21 07:30	10/14/21 11:52
320-80333-31	J6038-T5B-101321-1	Water	10/13/21 08:01	10/14/21 11:52
320-80333-32	J6038-T5B-101321-2	Water	10/13/21 08:06	10/14/21 11:52
320-80333-33	J6038-T21B-101321	Water	10/13/21 08:41	10/14/21 11:52
320-80333-34	J6038-T18B-101321	Water	10/13/21 09:25	10/14/21 11:52
320-80333-35	J6038-T20B-101321	Water	10/13/21 10:02	10/14/21 11:52
320-80333-36	J6038-T12C-101321	Water	10/13/21 11:06	10/14/21 11:52
320-80333-37	J6038-T9C-101321	Water	10/13/21 11:35	10/14/21 11:52
320-80333-38	J6038-T19B-101321	Water	10/13/21 12:30	10/14/21 11:52



BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB EUR
 ALL ANALYSES MUST MEET
 LIMITS SET BY CALIFORNIA
 EPA
 LIA
 OTHER

CHAIN OF CUSTODY
 CLIENT: GES (Groundwater & Environmental Services)
 SITE: TRW Microwave
 825 Stewart Dr., Sunnyvale, CA
 GHD Project #: 11224293-J6038

BTS # 2110115C-1

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		C	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADD'L INFORMATION
			S=SOIL W=H ₂ O	TOTAL	TYPE							
J6038-T10B-101221	10/12/21	0935	W	1	250 NP Poly			X				
J6038-T25B-101221	1	1117	1	1	1			X				
J6038-T8B-101221	1	1335	1	1	1			X				

SPECIAL INSTRUCTIONS
 Invoice to: NGI
 Report to: GES - Jenn
 JeClay@gesonli
 Cc Report to: twrig
 SSOW Ref. Code: 1

SAMPLING COMPLETED: 10/12/2021 1355
 SAMPLING PERFORMED BY: Ciara Shirey
 RESULTS NEEDED NO LATER THAN: Sta

RELEASED BY: [Signature] DATE: 10/12/2021 TIME: 1700
 RECEIVED BY: [Signature]

RELEASED BY: [Signature] DATE: [] TIME: []
 RECEIVED BY: [Signature]

RELEASED BY: [Signature] DATE: [] TIME: []
 RECEIVED BY: [Signature]

SHIPPED VIA: [] DATE SENT: [] TIME SENT: [] COOLER # []



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1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT				LAB	EU						
C = COMPOSITE ALL CONTAINERS	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ALL ANALYSES MUST MEET LIMITS SET BY CALIFORNIA					
						<input type="checkbox"/> EPA					
						<input type="checkbox"/> LIA					
						<input type="checkbox"/> OTHER					
						SPECIAL INSTRUCTIONS					
						Invoice to: NC					
						Report to: GES - Je					
						JeClay@geson					
						Cc Report to: tw					
						SSOW Ref. Code:					
ADD'L INFORMATION											

CHAIN OF CUSTODY	BTS # 211011SC-1
CLIENT	GES (Groundwater & Environmental Services)
SITE	TRW Microwave
	825 Stewart Dr., Sunnyvale, CA
	GHD Project #: 11224293-J6038

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		C = COMPOSITE ALL CONTAINERS	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD >	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADD'L INFORMATION
			S=SOIL W=H ₂ O	TOTAL	TYPE							
• TRIPLEBLANK - J6038-101121	10/11/21	0800	W	2	various		X					
• J6038-T9A-101121		1146		3			X					
• J6038-T19A-101121		1308		3			X					
• J6038-T14A-101121		1336		3			X					
• J6038-T13A-101121		1416		3			X					
• J6038-T23A-101121		1440		3			X					
• J6038-T25A-101121		1507		3			X					
• TRIPLEBLANK - J6038-101221	10/12/21	0800		2			X					
• J6038-T15A-101221		0849		3			X					
• J6038-T17A-101221		0920		3			X					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	10/13/21	1230	Ciara Shirey	NO LATER THAN St
RELEASED BY	DATE	TIME	RECEIVED BY	
	10/13/2021	1330	(SC)	
RELEASED BY	DATE	TIME	RECEIVED BY	
	10/14/21	0945		
RELEASED BY	DATE	TIME	RECEIVED BY	



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1680 ROGERS AVENUE
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 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT LAB E

ALL ANALYSES MUST MEET
 LIMITS SET BY CALIFORNIA
 EPA
 LIA
 OTHER

CHAIN OF CUSTODY

BTS# 211011SC-1

CLIENT: GES (Groundwater & Environmental Services)

SITE: TRW Microwave

825 Stewart Dr., Sunnyvale, CA

GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		C	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD ^	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADD'L INFORMATION
			S=SOIL W=H ₂ O	TOTAL	TYPE							
J6038-T17B-101221	10/21/21	0945	W	3	various		X					
J6038-T4B-101221		1017		3			X					
J6038-38S-101221		1050		3			X					
J6038-T25BS-101221		1117		9			X	X	X	X		
J6038-T25BD-101221		1144		3			X					
J6038-T24B-101221		1130		3			X					
J6038-T23B-101221		1101		3			X					
J6038-T10B-101221		0935		9			X	X	X	X		
J6038-T10A-101221		0855		3			X					
J6038-T10C-101221		1255		3			X					

SAMPLING COMPLETED DATE: 10/13/21 TIME: 1230

SAMPLING PERFORMED BY: Ciara Shirey

RESULTS NEEDED NO LATER THAN: S1

RELEASED BY:	DATE: 10/13/2021	TIME: 1330	RECEIVED BY:
RELEASED BY:	DATE: 10/14/21	TIME: 0945	RECEIVED BY:
RELEASED BY:	DATE: 10/14/21	TIME: 0945	RECEIVED BY:



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TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB EU

ALL ANALYSES MUST MEET
 LIMITS SET BY CALIFORNIA

- EPA
- LIA
- OTHER

SPECIAL INSTRUCTIONS

Invoice to: N
 Report to: GES - Je
 JeClay@gesor
 Cc Report to: tw
 SSOW Ref. Code:

CHAIN OF CUSTODY	BTS# 211011SC-1
CLIENT	GES (Groundwater & Environmental Services)
SITE	TRW Microwave
	825 Stewart Dr., Sunnyvale, CA
	GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS		C	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD ^	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADDL INFORMATION
				TOTAL	TYPE							
• J6038-T8B-101221	10/12/21	1335	W	9	various		X		X	X	X	
• J6038-T8A-101221		1410		3			X					
• J6038-T11C-101221-1		1300		3			X					
• J6038-T11C-101221-2		1310		3			X					
• J6038-T7B-101221-1		1430		3			X					
• J6038-T7B-101221-2		1435		3			X					
• J6038-T7A-101221-1		1450		3			X					
• J6038-T7A-101221-2		1455		3			X					
• J6038-T22B-101221		1028		3			X					
• TRIP BLANK - J6038-101321	10/13/21	0730		2			X					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	10/13/21	1230	Ciara Shirey	S1
RELEASED BY	DATE	TIME	RECEIVED BY	
<i>CS</i>	10/13/2021	1330	<i>CS</i> (sc)	
RELEASED BY	DATE	TIME	RECEIVED BY	
<i>[Signature]</i>	10/14/21	0945	<i>[Signature]</i>	
RELEASED BY	DATE	TIME	RECEIVED BY	



BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB E1

ALL ANALYSES MUST MEET
LIMITS SET BY CALIFORNIA

- EPA
- LIA
- OTHER

SPECIAL INSTRUCTIONS:

Invoice to: N
Report to: GES - Je
JeClay@geso
Cc Report to: tw

SSOW Ref. Code:

CHAIN OF CUSTODY	BTS # 2110115C-1
CLIENT	GES (Groundwater & Environmental Services)
SITE	TRW Microwave
	825 Stewart Dr., Sunnyvale, CA
	GHD Project #: 11224293-J6038

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		C = COMPOSITE ALL CONTAINERS	HVOC's (8260B)	Sulfate, Nitrate (EPA 300) < 48 HOUR HOLD ^	TOC (EPA 9060A)	Alkalinity (EPA 2320B)	Methane, Ethane, Ethene (RSK-175)	ADD'L INFORMATION
			S=SOIL W=H ₂ O	TOTAL	TYPE							
J6038-T56-101321-1	10/13/21	0801	W	3	various		X					
J6038-T56-101321-2		0806		3			X					
J6038-T21B-101321		0841		3			X					
J6038-T18B-101321		0925		3			X					
J6038-T20B-101321		1002		3			X					
J6038-T12C-101321		1106		3			X					
J6038-T9C-101321		1135		3			X					
J6038-T19B-101321		1230		3			X					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	10/13/21	1230	Ciana Shirey	NO LATER THAN S

RELEASED BY	DATE	TIME	RECEIVED BY
	10/13/2021	1330	(sc)
RELEASED BY	DATE	TIME	RECEIVED BY
	10/14/21	0945	
RELEASED BY	DATE	TIME	RECEIVED BY



Eurofins TestAmerica, Sacramento

880 Riverside Parkway
 West Sacramento, CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)			Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:		
Client Contact: Shipping/Receiving			Phone:		Salimpour, Afsaneh F		E-Mail:		320-245430.1		
Company: TestAmerica Laboratories, Inc.			Address: 880 Riverside Parkway, City: West Sacramento		Due Date Requested: 10/26/2021		Accreditations Required (See note): State Program - California		Page: Page 1 of 5		
State, Zip: CA, 95605			TAT Requested (days):		PO #:		WO #:		Job #: 320-80333-1		
Project Name: TRW Microwave			Project #: 32018717		SSOW#:		Analysis Requested		Preservation Codes:		
Site:			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		
Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)		8260B/5030B (MOD) Halogenated Compounds By 8260B		2220B/ Total Alkalinity Only		Total Number of containers		
Sample Identification - Client ID (Lab ID)			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		
TRIPBLANK-J6038-101121 (320-80333-1)			10/11/21		08:00 Pacific		Water		X		
J6038-T9A-101121 (320-80333-2)			10/11/21		11:46 Pacific		Water		X		
J6038-T19A-101121 (320-80333-3)			10/11/21		13:08 Pacific		Water		X		
J6038-T14A-101121 (320-80333-4)			10/11/21		13:36 Pacific		Water		X		
J6038-T13A-101121 (320-80333-5)			10/11/21		14:10 Pacific		Water		X		
J6038-T23A-101121 (320-80333-6)			10/11/21		14:40 Pacific		Water		X		
J6038-T25A-101121 (320-80333-7)			10/11/21		15:07 Pacific		Water		X		
TRIPBLANK-J6038-101221 (320-80333-8)			10/12/21		08:00 Pacific		Water		X		
J6038-T15A-101221 (320-80333-9)			10/12/21		08:49 Pacific		Water		X		
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2					
Empty Kit Relinquished by:						Special Instructions/QC Requirements:					
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
[Signature]				10-14-21 1600		ST		Paul		10-14-21 1600	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
[Signature]				11/10		[Signature]		[Signature]		10/14/21-1910	
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					
[Signature]				[Signature]		1.9 & 2.4 & 3.9					



Eurofins TestAmerica, Sacramento

880 Riverside Parkway
 West Sacramento, CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:													
Client Contact: Shipping/Receiving		Phone:		Salimpour, Afsaneh F		E-Mail: Afsaneh.Salimpour@Eurofinset.com		State of Origin: California													
Company: TestAmerica Laboratories, Inc.		Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email:		Due Date Requested: 10/26/2021 TAT Requested (days):		Accreditations Required (See note): State Program - California		Page: Page 2 of 5 Job #: 320-80333-1													
Project Name: TRW Microwave Site:		Project #: 32018717 SSOW#:		Analysis Requested		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		Other:													
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260B/5030B (MOD) Halogenated Compounds By 8260B		2320B/ Total Alkalinity Only		Total Number of containers		Special Instructions/Note:	
J6038-T17A-101221 (320-80333-10)		10/12/21		09:20 Pacific		Water		Water		X								3			
J6038-T17B-101221 (320-80333-11)		10/12/21		09:45 Pacific		Water		Water		X								3			
J6038-T4B-101221 (320-80333-12)		10/12/21		10:17 Pacific		Water		Water		X								3			
J6038-38S-101221 (320-80333-13)		10/12/21		10:50 Pacific		Water		Water		X								3			
J6038-T25BS-101221 (320-80333-14)		10/12/21		11:17 Pacific		Water		Water		X		X						4			
J6038-T25BD-101221 (320-80333-15)		10/12/21		11:44 Pacific		Water		Water		X								3			
J6038-T24B-101221 (320-80333-16)		10/12/21		11:30 Pacific		Water		Water		X								3			
J6038-T23B-101221 (320-80333-17)		10/12/21		11:01 Pacific		Water		Water		X								3			
J6038-T10B-101221 (320-80333-18)		10/12/21		09:35 Pacific		Water		Water		X		X						4			
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>																					
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Unconfirmed										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)										Primary Deliverable Rank: 2											
Empty Kit Relinquished by:										Special Instructions/QC Requirements:											
Relinquished by: <i>[Signature]</i>										Date/Time: 10-14-21 1600											
Relinquished by: <i>[Signature]</i>										Date/Time: 10-14-21 1600											
Relinquished by: <i>[Signature]</i>										Date/Time: 10/14/21-1910											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No										Custody Seal No.:											
										Cooler Temperature(s) °C and Other Remarks:											



Eurofins TestAmerica, Sacramento

880 Riverside Parkway
 West Sacramento, CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)				Sampler:		Lab PM:				Carrier Tracking No(s):				COC No:									
Client Contact				Phone:		Salimpour, Afsaneh F				E-Mail:				State of Origin:									
Shipping/Receiving						Afsaneh.Salimpour@Eurofinset.com				California				Page 3 of 5									
Company: TestAmerica Laboratories, Inc.						Accreditations Required (See note): State Program - California						Job # 320-80333-1											
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email:				Due Date Requested: 10/26/2021		Analysis Requested												Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:					
Project Name: TRW Microwave				TAT Requested (days):																			
Site:				Project #: 32018717																			
				SSOW#:																			
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		Special Instructions/Note:					
J6038-T16A-101221 (320-80333-19)				10/12/21		08:55 Pacific		Water		Water		X				3							
J6038-T10C-101221 (320-80333-20)				10/12/21		12:55 Pacific		Water		Water		X				3							
J6038-T8B-101221 (320-80333-21)				10/12/21		13:35 Pacific		Water		Water		X X				4							
J6038-T8A-101221 (320-80333-22)				10/12/21		14:10 Pacific		Water		Water		X				3							
J6038-T11C-101221-1 (320-80333-23)				10/12/21		13:05 Pacific		Water		Water		X				3							
J6038-T11C-101221-2 (320-80333-24)				10/12/21		13:10 Pacific		Water		Water		X				3							
J6038-T7B-101221-1 (320-80333-25)				10/12/21		14:30 Pacific		Water		Water		X				3							
J6038-T7B-101221-2 (320-80333-26)				10/12/21		14:35 Pacific		Water		Water		X				3							
J6038-T7A-101221-1 (320-80333-27)				10/12/21		14:50 Pacific		Water		Water		X				3							
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.																							
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
Unconfirmed										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2					Special Instructions/QC Requirements:													
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by: <i>John Muller</i>				Date/Time: 10-14-21 1600				Company: <i>SS</i>				Received by: <i>Paul</i>				Date/Time: 10-14-21 1600				Company: <i>DCS</i>			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by: <i>Paul</i>				Date/Time: 1910				Company:				Received by: <i>John</i>				Date/Time: 10/14/21-1910				Company: <i>EASA</i>			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:				Colder Temperature(s) °C and Other Remarks:															

Page 91 of 95

10/28/2021



Eurofins TestAmerica, Sacramento

880 Riverside Parkway
 West Sacramento, CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Salimpour, Afsaneh F		320-245430.4
Company: TestAmerica Laboratories, Inc.			E-Mail: Afsaneh.Salimpour@Eurofinset.com	State of Origin: California	Page: Page 4 of 5
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email:		Due Date Requested: 10/26/2021	Accreditations Required (See note): State Program - California		Job #: 320-80333-1

Project Name: TRW Microwave		Project #: 32018717	Analysis Requested										Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Site:		SSOW#:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260B/5030B (MOD) Halogenated Compounds By 8260B 2320B/ Total Alkalinity Only Total Number of containers										Other:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) Halogenated Compounds By 8260B	2320B/ Total Alkalinity Only	Total Number of containers	Special Instructions/Note:
J6038-T7A-101221-2 (320-80333-28)	10/12/21	14:55 Pacific		Water	X				3	
J6038-T22B-101221 (320-80333-29)	10/12/21	10:28 Pacific		Water	X				3	
TRIPBLANK-J6038-101321 (320-80333-30)	10/13/21	07:30 Pacific		Water	X				2	
J6038-T5B-101321-1 (320-80333-31)	10/13/21	08:01 Pacific		Water	X				3	
J6038-T5B-101321-2 (320-80333-32)	10/13/21	08:06 Pacific		Water	X				3	
J6038-T21B-101321 (320-80333-33)	10/13/21	08:41 Pacific		Water	X				3	
J6038-T18B-101321 (320-80333-34)	10/13/21	09:25 Pacific		Water	X				3	
J6038-T20B-101321 (320-80333-35)	10/13/21	10:02 Pacific		Water	X				3	
J6038-T12C-101321 (320-80333-36)	10/13/21	11:06 Pacific		Water	X				3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>John Mueller</i>	Date/Time: 10-14-21 1600	Company: ST	Received by: <i>Paul</i>	Date/Time: 10-14-21 1600	Company: DCS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by: <i>Paul</i>	Date/Time: 10/16	Company:	Received by: <i>[Signature]</i>	Date/Time: 10/14/21 - 1910	Company: E7ACK
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cofler Temperature(s) °C and Other Remarks:			

Page 92 of 95

10/28/2021



Eurofins TestAmerica, Sacramento

880 Riverside Parkway
 West Sacramento, CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Phone:		Salimpour, Afsaneh F		E-Mail: Afsaneh.Salimpour@Eurofinset.com		State of Origin: California	
Company: TestAmerica Laboratories, Inc.		Address: 880 Riverside Parkway,		Due Date Requested: 10/26/2021		Accreditations Required (See note): State Program - California		Job #: 320-80333-1	
City: West Sacramento		State, Zip: CA, 95605		TAT Requested (days):		Analysis Requested		Preservation Codes:	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		Email:		PO #:		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	
Project Name: TRW Microwave		Site:		Project #: 32018717		SSOW#:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Other:		WO #:		Project #:		SSOW#:		Total Number of containers	
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Sample Type (C=Comp, G=grab)		Sample Date		Sample Time		Special Instructions/Note:	
Preservation Code:		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		8260B/5030B (MOD) Halogenated Compounds By 8260B		2320B/ Total Alkalinity Only	
J6038-T9C-101321 (320-80333-37)		10/13/21		11:35 Pacific		Water		X	
J6038-T19B-101321 (320-80333-38)		10/13/21		12:30 Pacific		Water		X	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Seren Muller</i>		Date/Time: 10-14-21 1600		Company: ST		Received by: <i>Paul</i>	
Relinquished by: <i>Paul</i>		Date/Time: 11/16		Company:		Date/Time: 10/14/21-1910	
Company: E/MSAC		Company:		Company:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Page 93 of 95

10/28/2021



Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 320-80333-1

Login Number: 80333

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 320-80333-1

Login Number: 80333
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

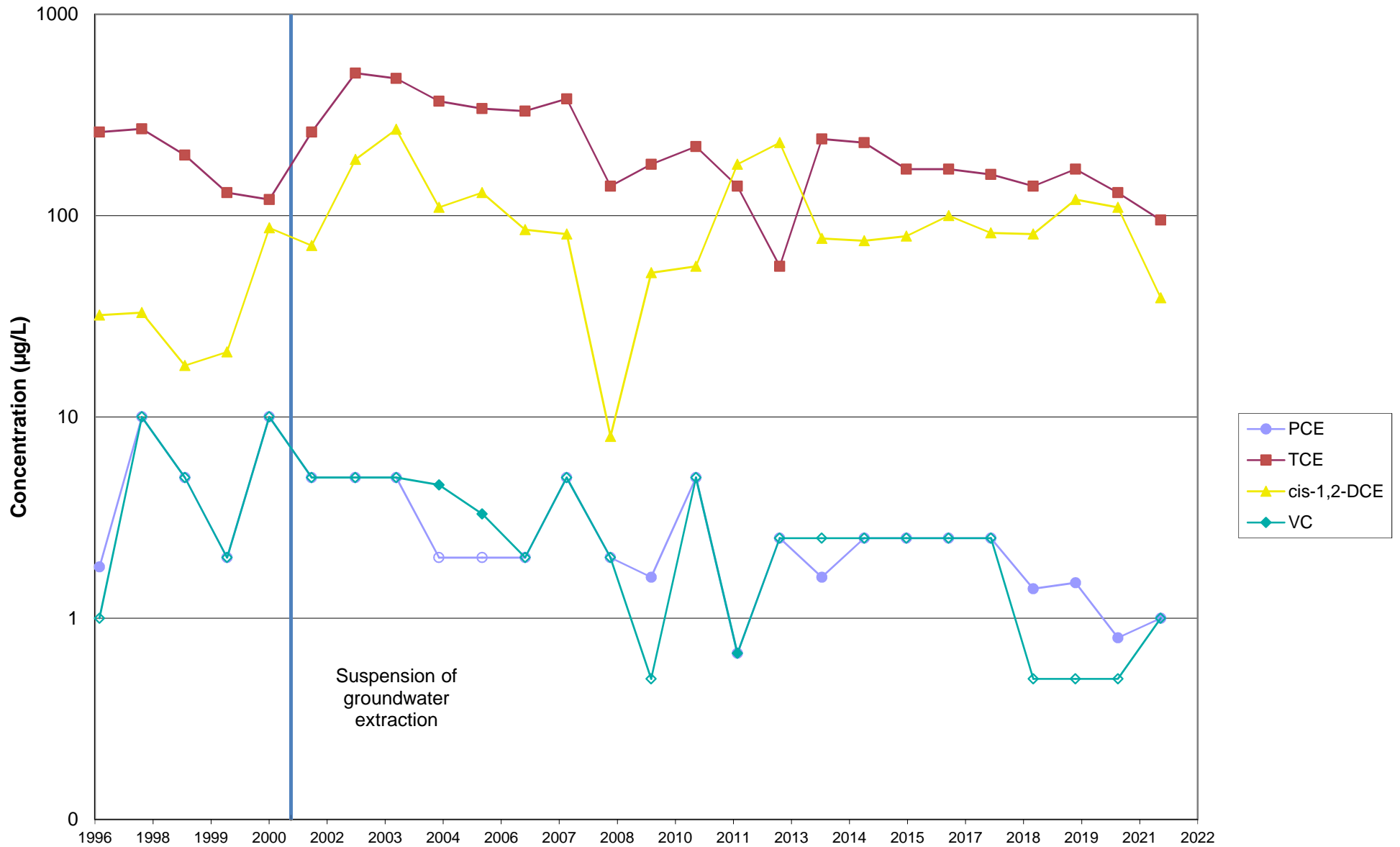
Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9 & 2.4 & 3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Appendix F – Chlorinated Ethene Concentration Trend Plots for Selected Wells

Chlorinated Ethene Concentration Trend Plot for Well T-7A

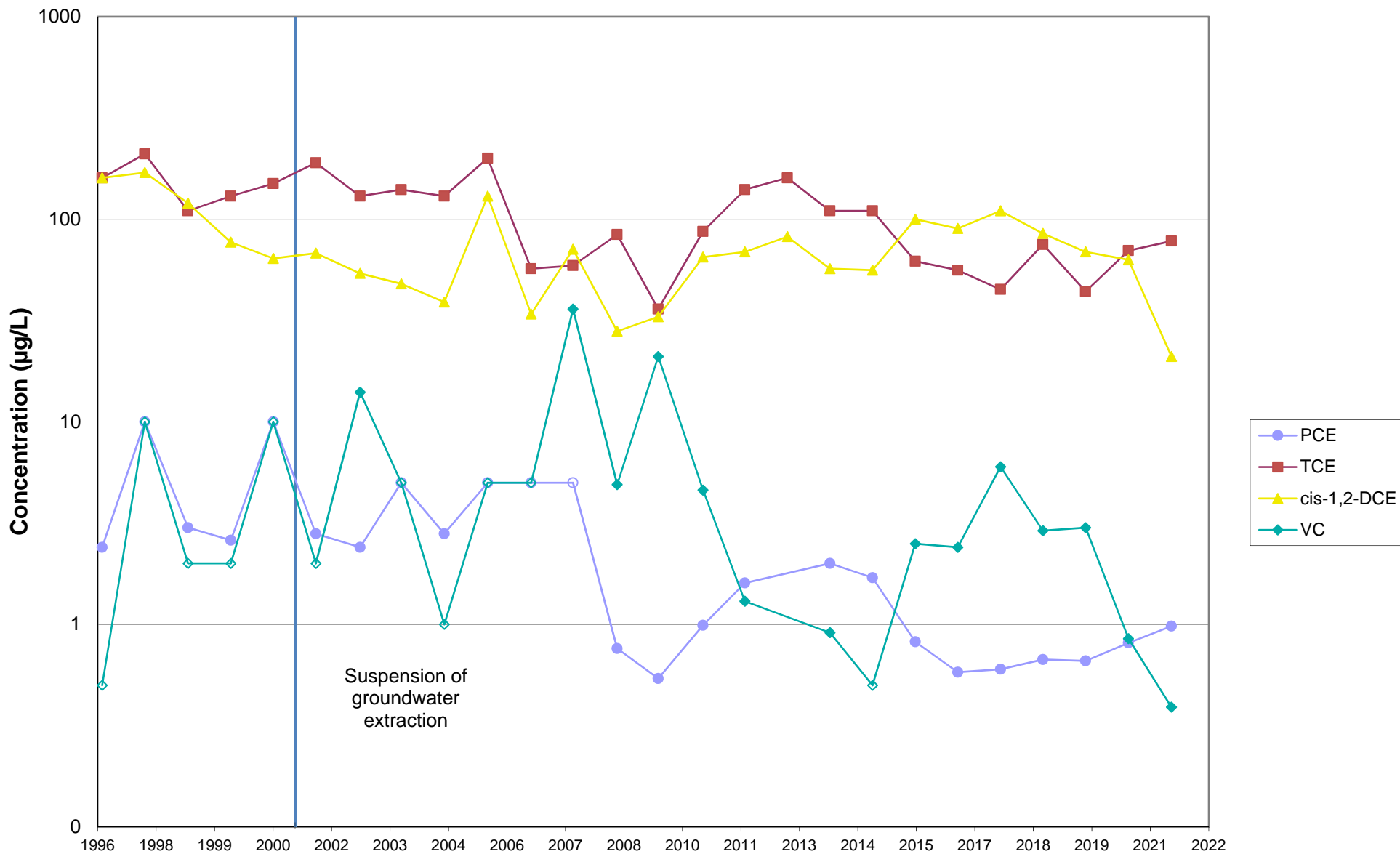
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-8A

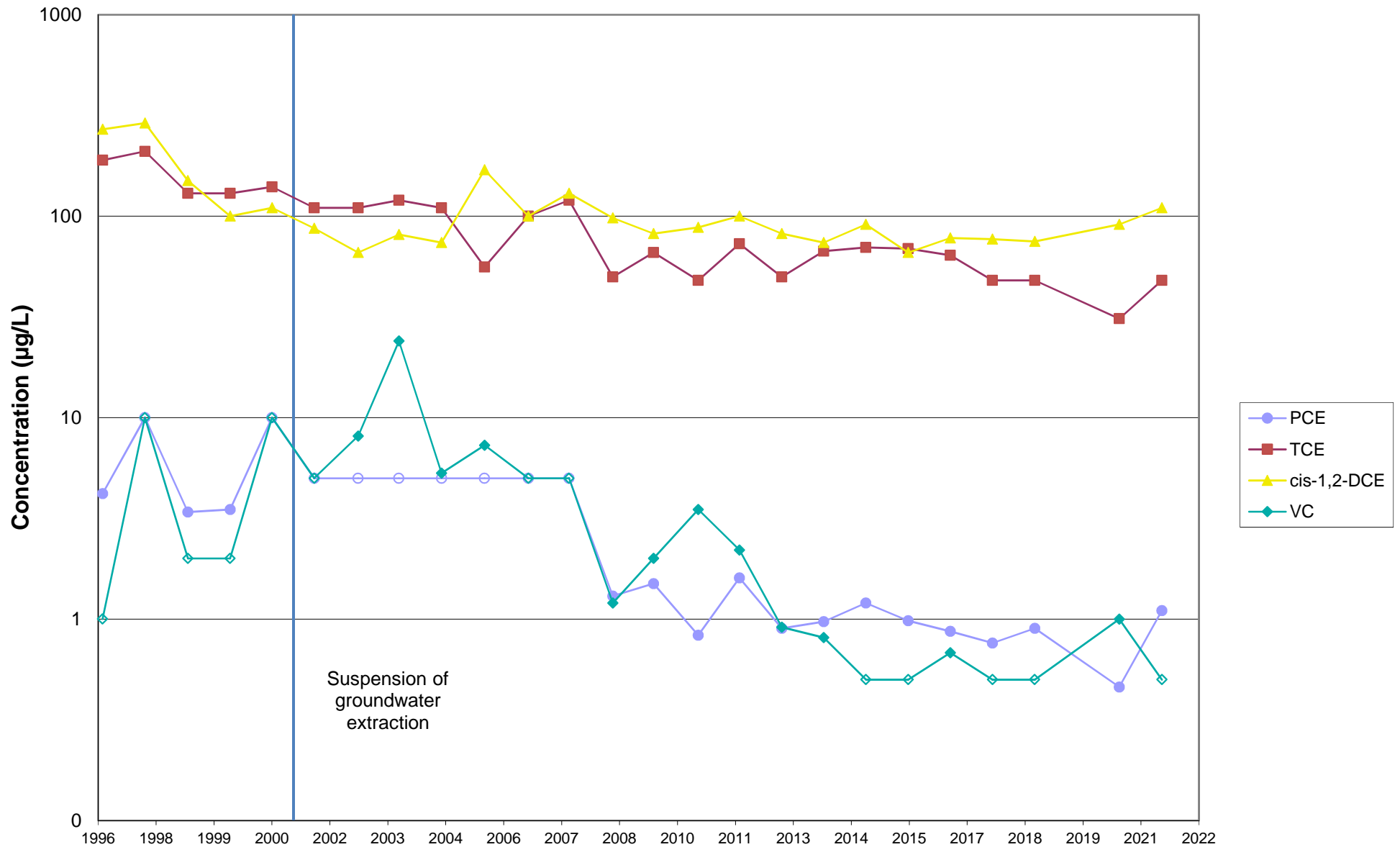
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
Suspension of EAB monitoring in 2017.
Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-9A

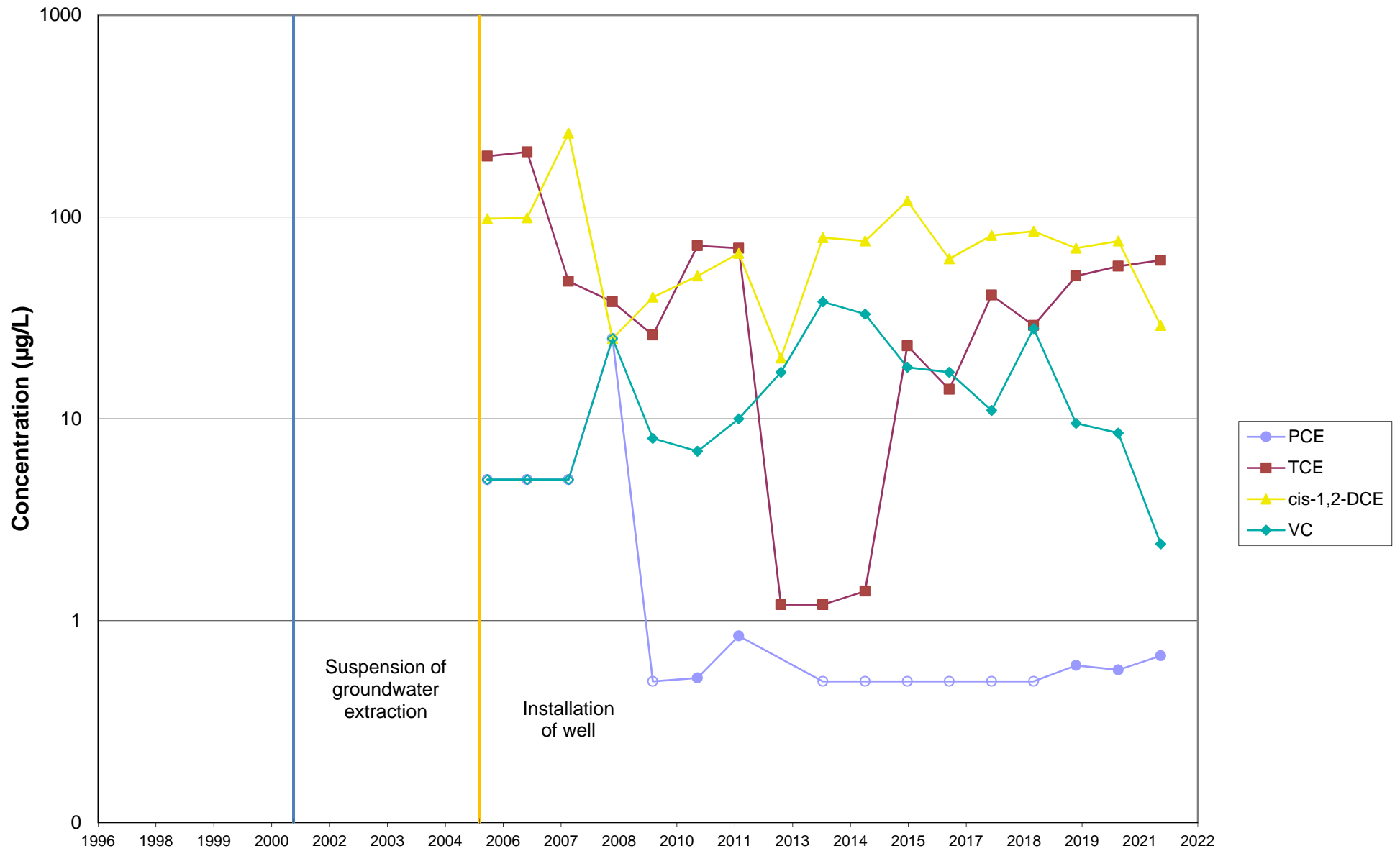
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
Suspension of EAB monitoring in 2017.
Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-13A

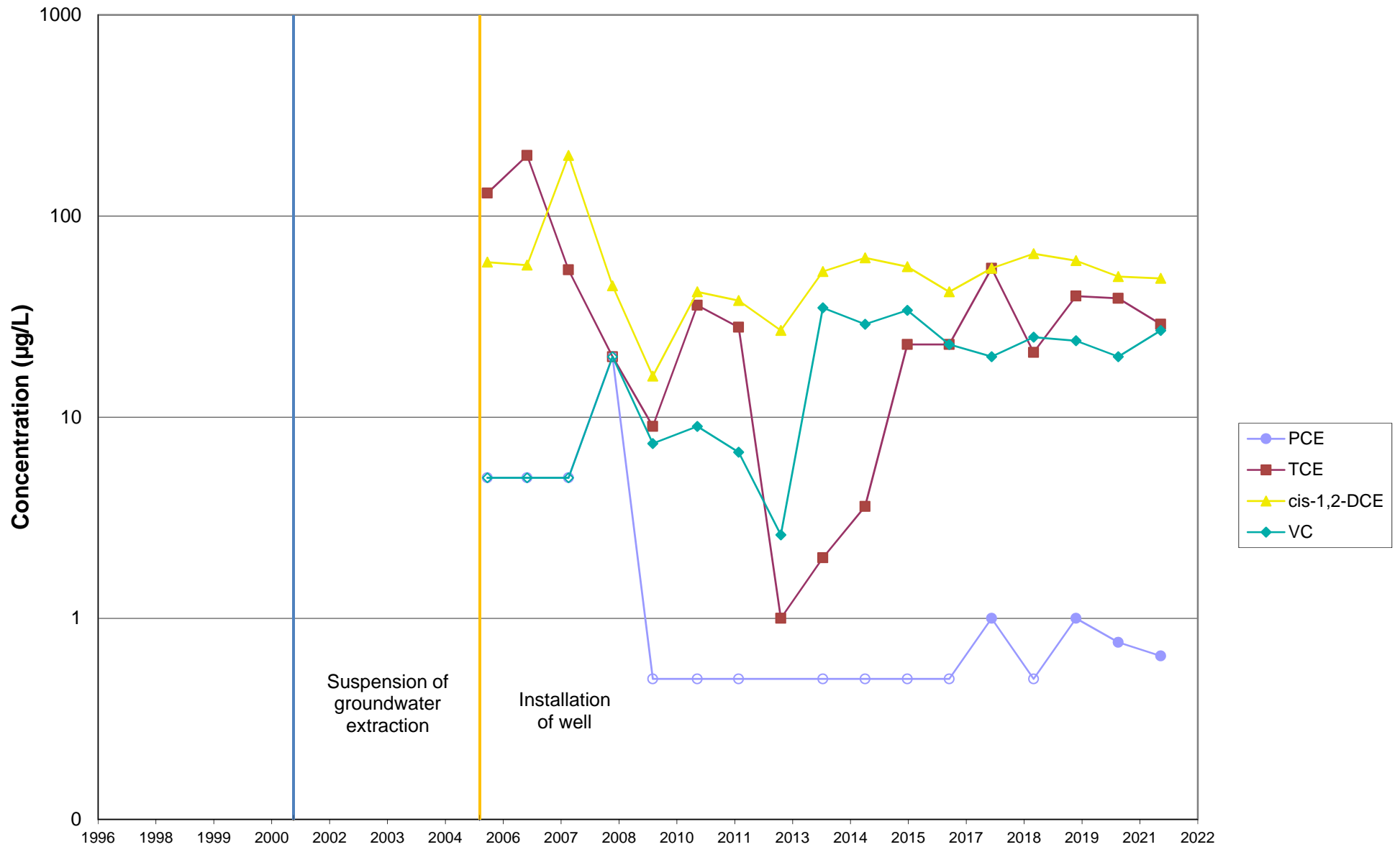
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-14A

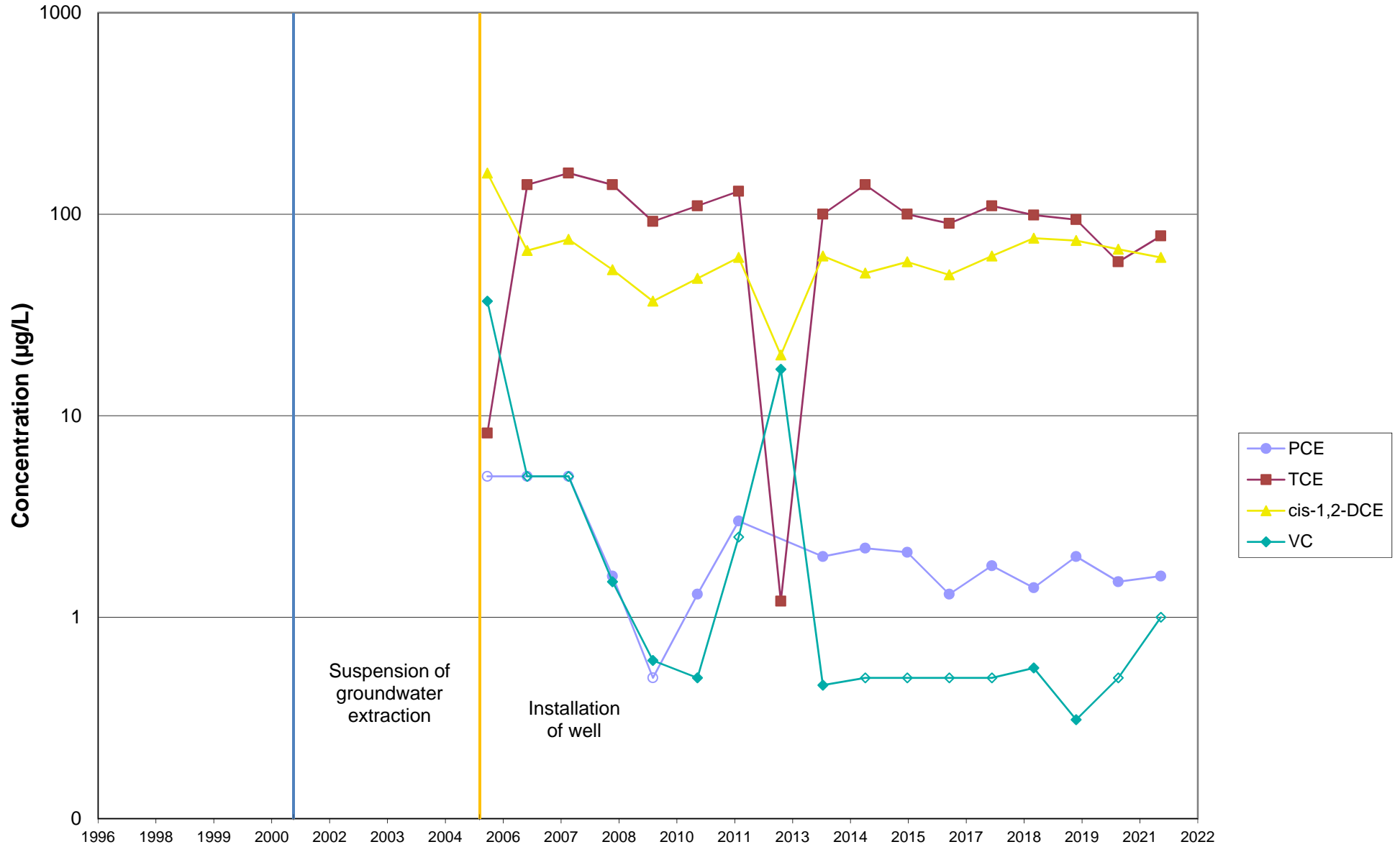
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-15A

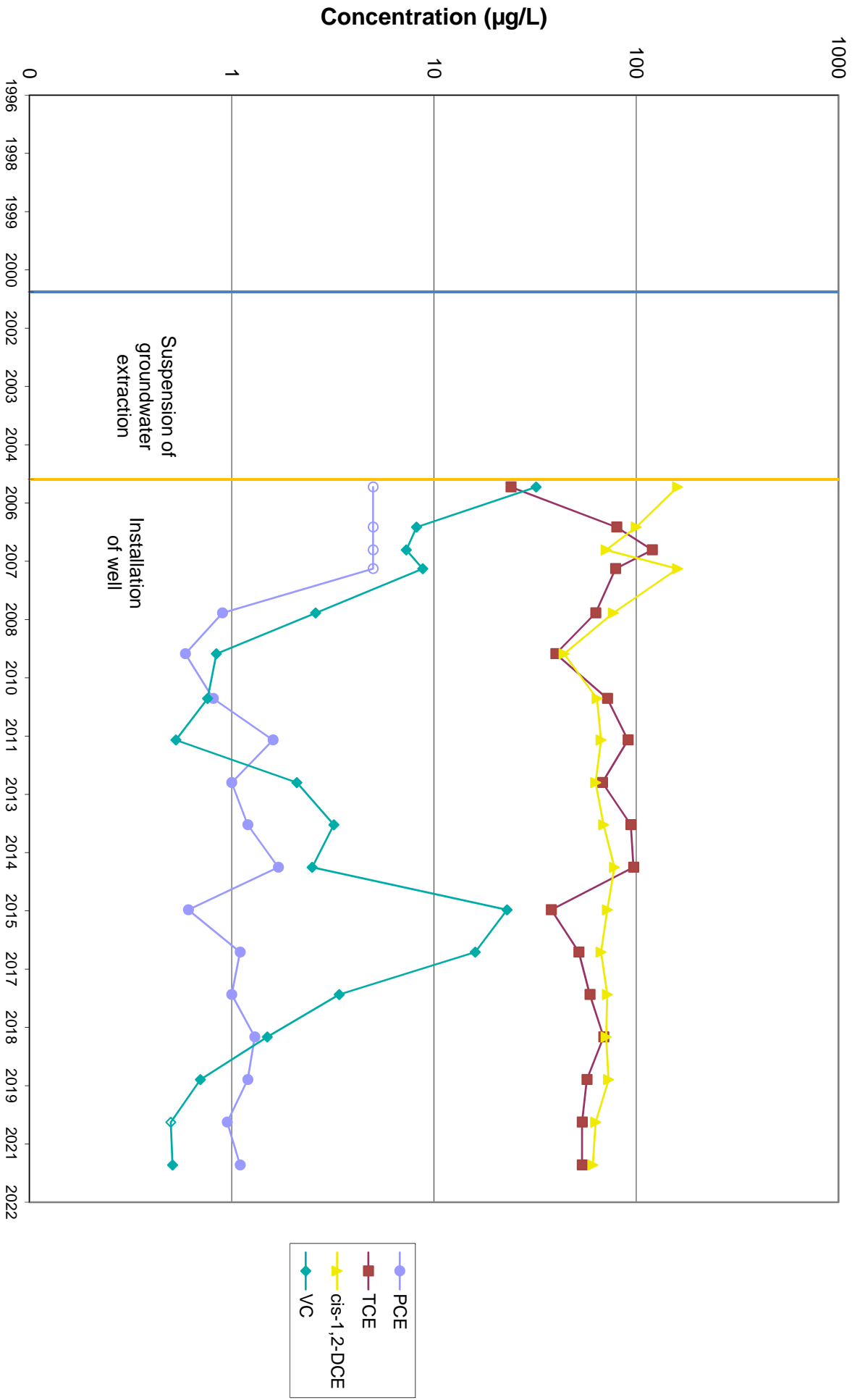
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-16A

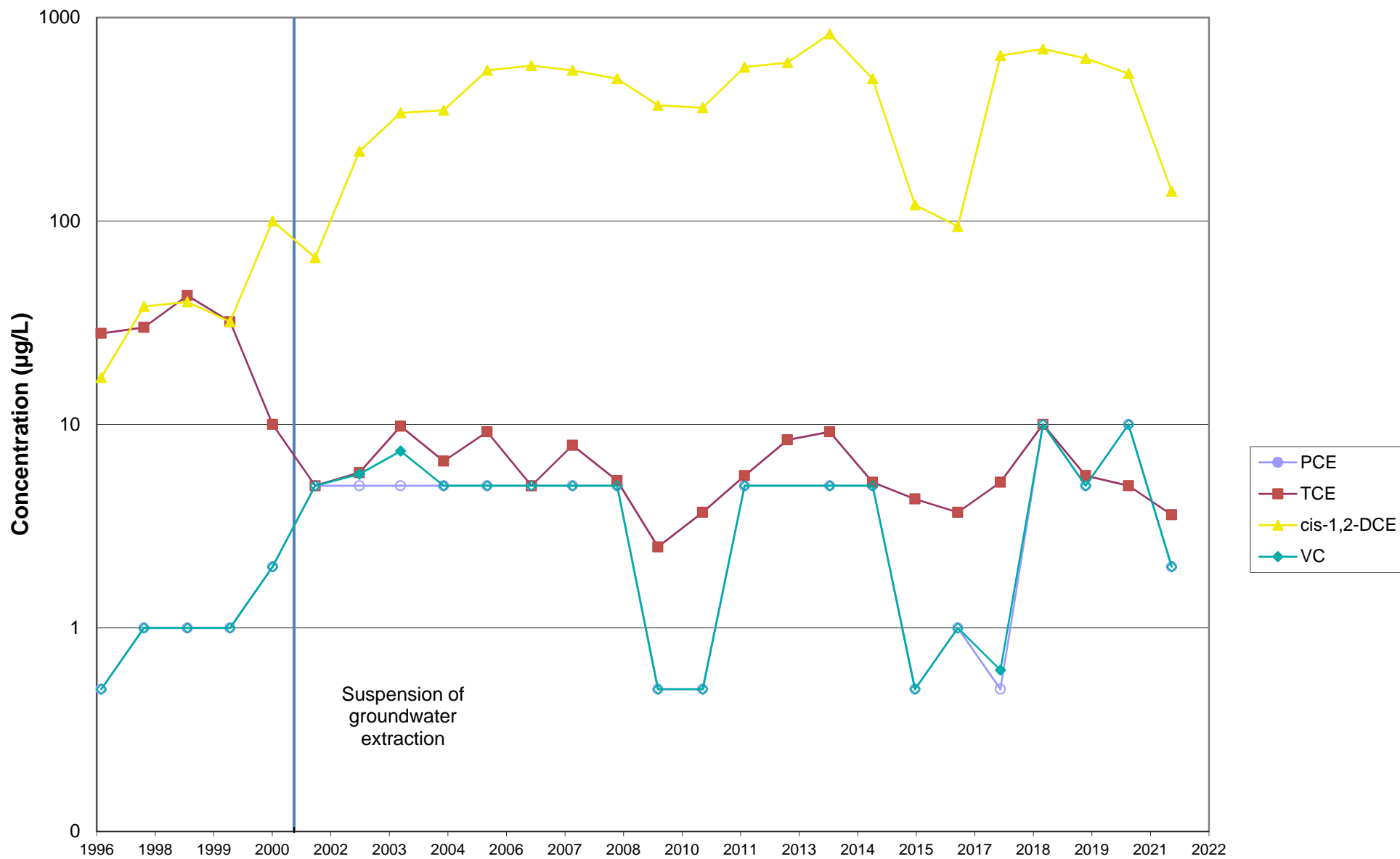
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Educator, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-4B

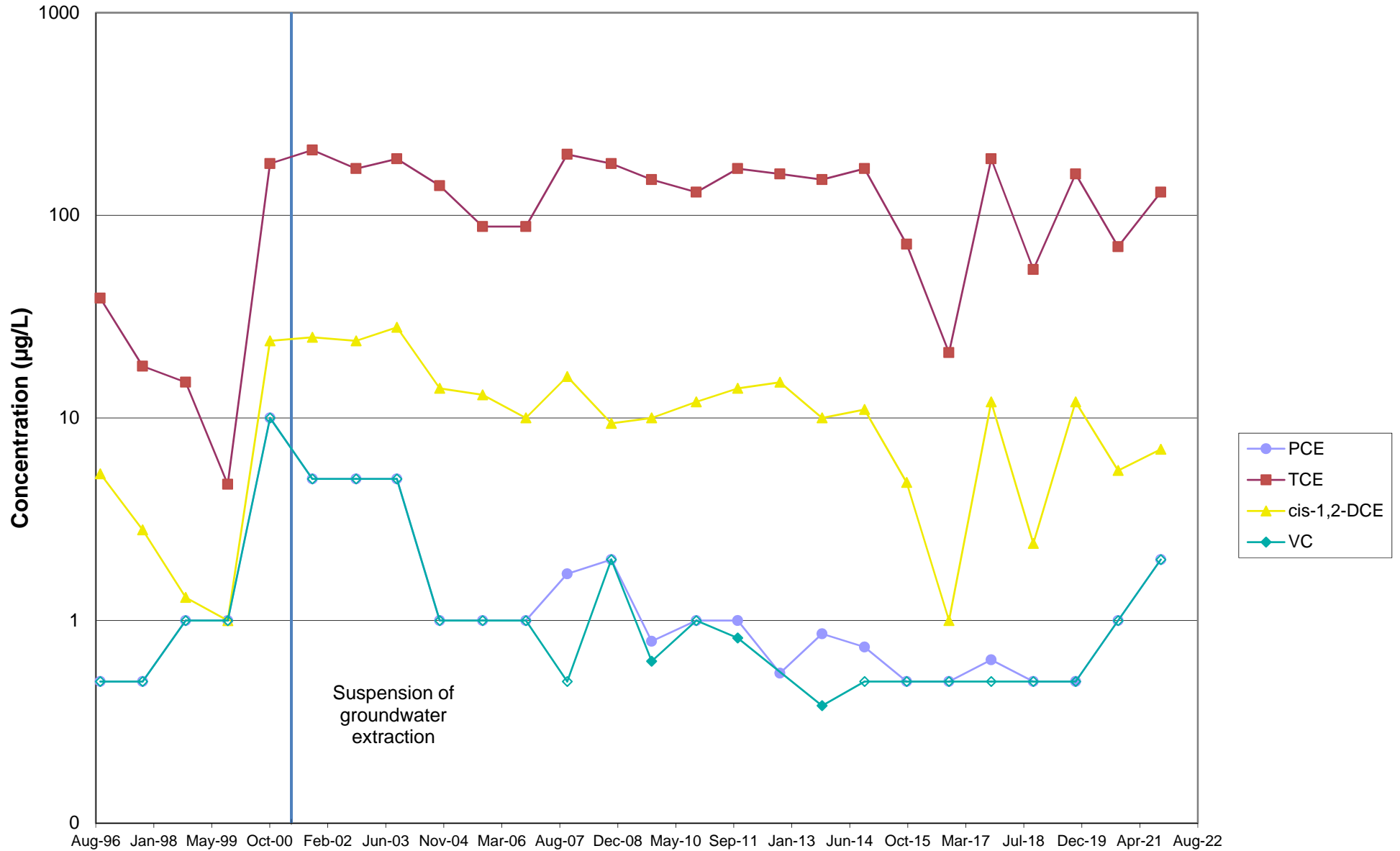
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
Suspension of EAB monitoring in 2017.
Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-7B

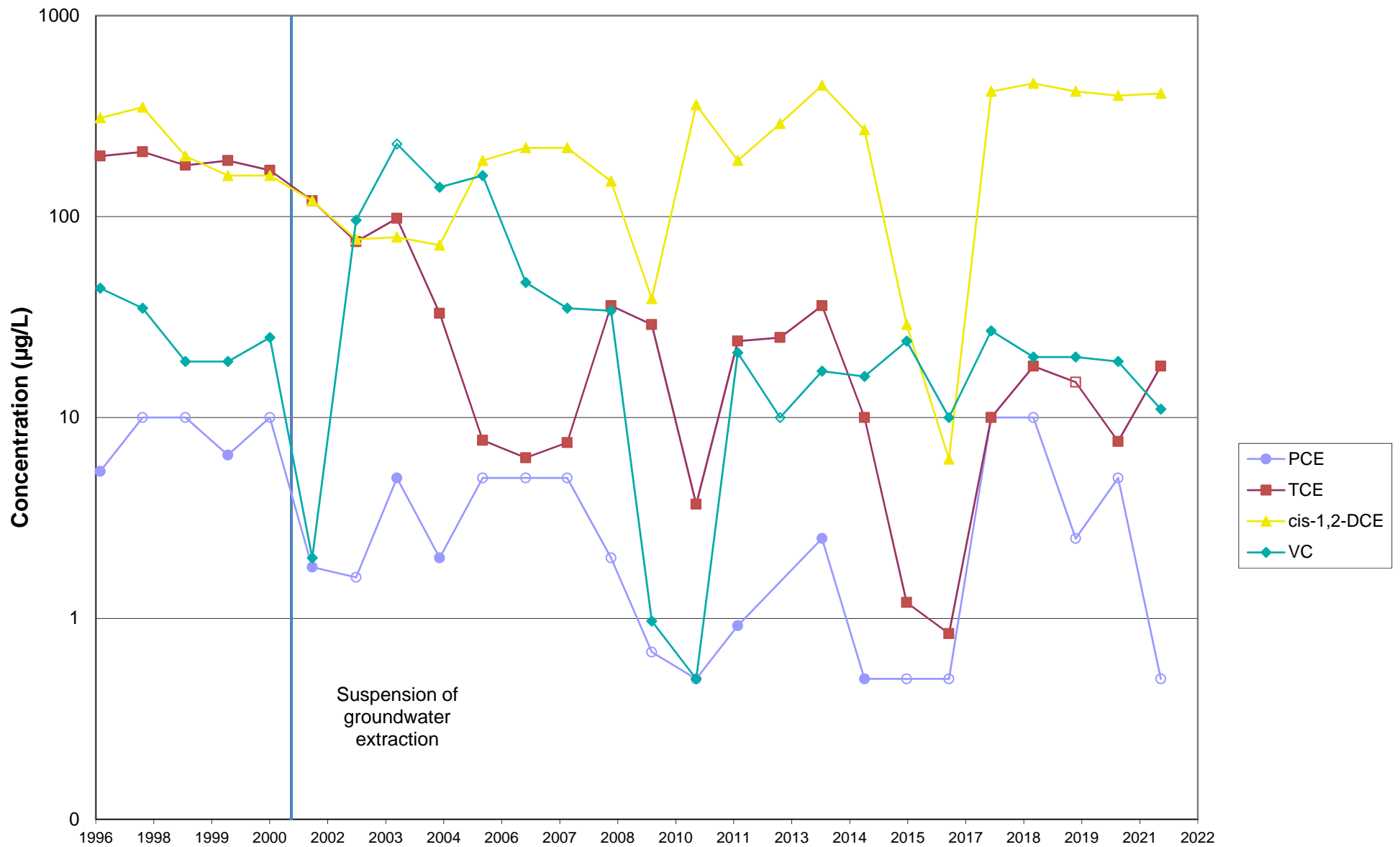
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
Suspension of EAB monitoring in 2017.
Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-8B

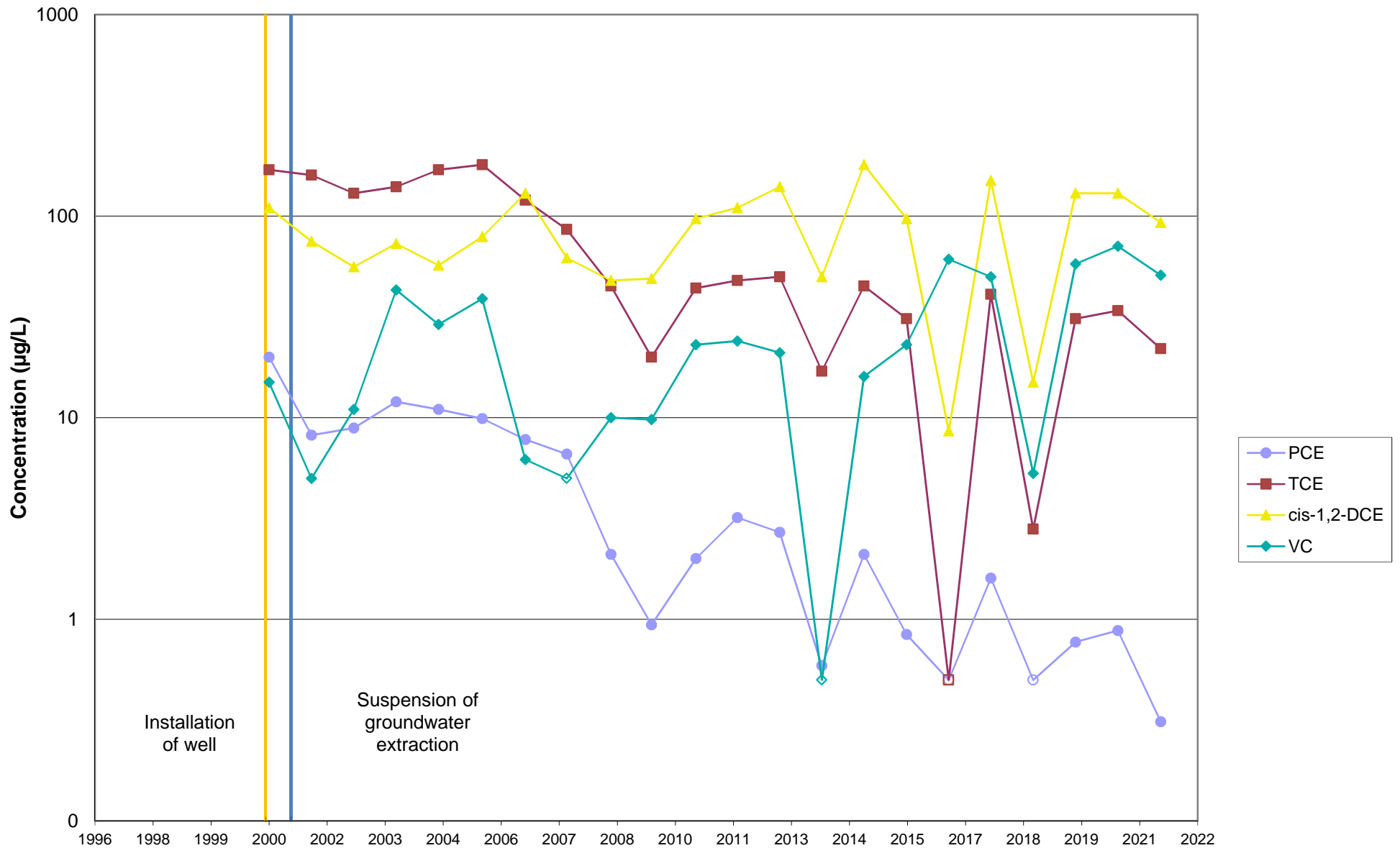
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
Suspension of EAB monitoring in 2017.
Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-10B

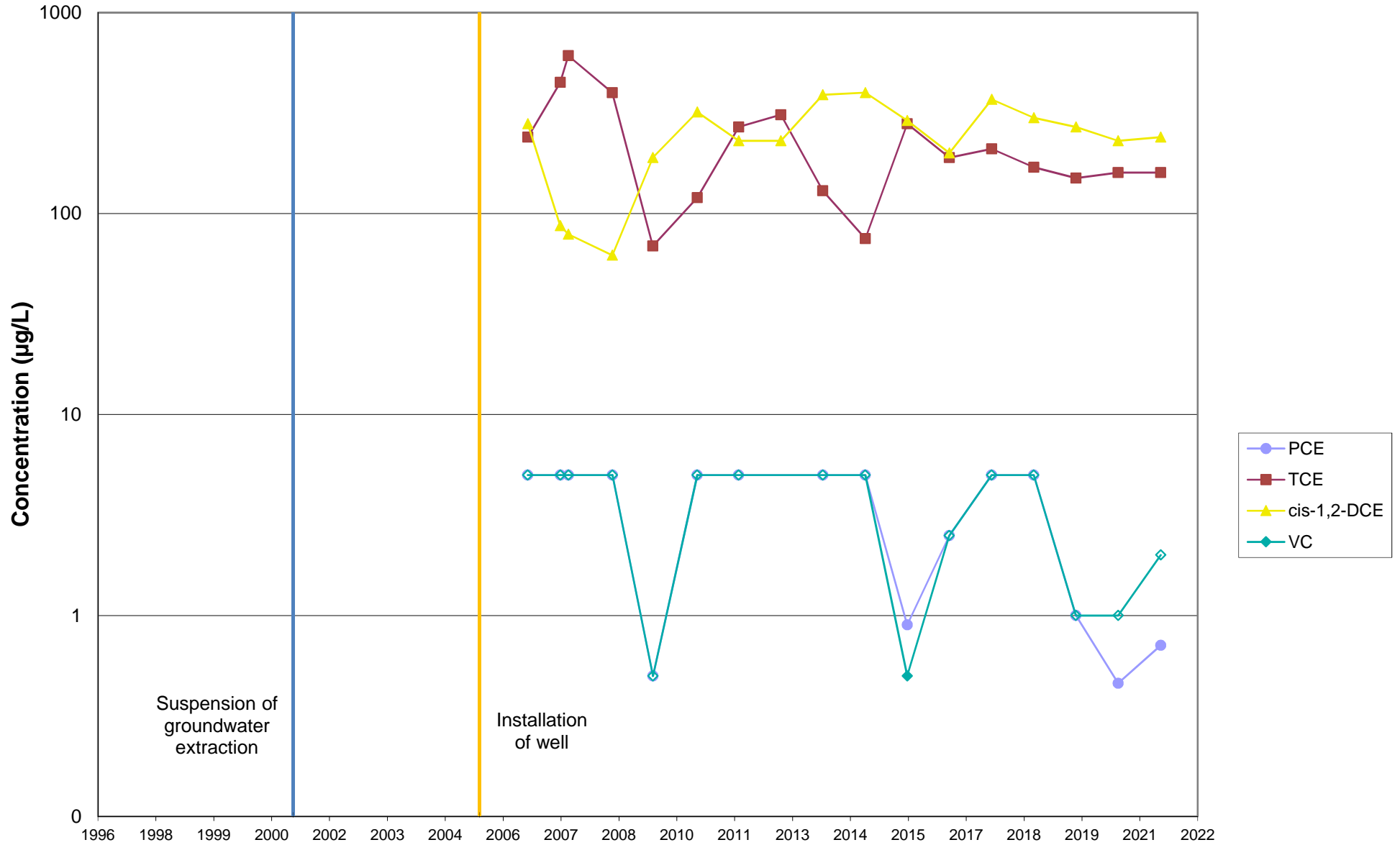
Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Chlorinated Ethene Concentration Trend Plot for Well T-17B

Former TRW Microwave - 825 Stewart Drive, Sunnyvale, California



Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A and T-9A occurred on April 6, 2001.
 Enhanced anaerobic bioremediation (EAB) program initiated in October 2000.
 Suspension of EAB monitoring in 2017.
 Concentrations are shown in micrograms per Liter (µg/L) and concentrations reported as non-detect are open.

Appendix G – Off-Site Monitoring Wells Table and Data

TABLE 1
2021 WATER ELEVATION REPORT
THE COMPANIES OFFSITE OPERABLE UNIT
SUNNYVALE, CALIFORNIA

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
COM01A	A	33.13	24.30
COM02A	A	31.20	22.07
COM03A	A	28.56	NA
COM04A	A	30.04	21.97
COM05A	A	27.60	16.92
COM06A*	A	35.24	23.01
COM06AEH	A	35.74	27.06
COM08A*	A	35.82	20.12
COM10A*	A	35.92	28.08
COM11A	A	29.91	22.51
COM16A*	A	35.82	26.77
COM17AH	A	29.00	18.87
COM18AH	A	35.92	28.29
COM19AH	A	35.06	28.11
COM20AH	A	34.96	27.74
COM22AH	A	28.73	18.77
COM23AH	A	28.48	18.68
COM24AH	A	29.44	18.76
COM25AH	A	28.51	NA
COM26AH	A	28.98	19.17
COM27AH	A	29.69	19.60
COM29A	A	37.54	28.88
COM29A2	A	37.65	28.87
COM37A*	A	28.11	18.06
COM38A*	A	28.21	18.92
COM39A*	A	27.55	NA
COM43A*	A	28.33	18.88
COM44A	A	31.44	21.96
COM49A	A	23.19	11.56
COM55A*	A	30.54	21.79
S067A	A	39.39	30.76
S071A	A	40.59	31.92
S072A	A	37.50	28.14
S073A	A	38.30	29.99
S074A	A	39.57	31.99
S075A1	A	38.53	29.69
S075A2	A	38.73	29.79
S076A	A	37.03	28.24
S077A	A	39.92	29.94
S078A	A	38.80	31.17
S150A	A	41.23	NA
S151A	A	41.54	33.11

TABLE 1
2021 WATER ELEVATION REPORT
THE COMPANIES OFFSITE OPERABLE UNIT
SUNNYVALE, CALIFORNIA

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
S152A	A	41.39	33.42
COM01B1*	B1	32.93	-1.12
COM02B1	B1	31.35	21.65
COM03B1*	B1	28.27	NA
COM05B1	B1	28.17	16.85
COM06B1H	B1	35.54	23.71
COM07B1	B1	35.95	26.53
COM09B1	B1	36.45	22.70
COM10B1H	B1	36.61	20.84
COM11B1	B1	29.59	21.41
COM17B1H	B1	29.04	14.16
COM23B1H	B1	28.71	16.75
COM27B1H	B1	29.10	19.13
COM29B1	B1	38.25	28.78
COM31B1*	B1	35.91	5.61
COM32B1	B1	35.72	23.64
COM33B1	B1	26.50	13.97
COM34B1	B1	35.80	26.38
COM37B1	B1	29.10	18.50
COM38B1*	B1	27.96	0.96
COM41B1*	B1	25.49	12.39
COM42B1	B1	28.59	18.16
COM43B1	B1	28.87	18.89
COM45B1*	B1	27.69	17.01
COM47B1	B1	27.93	19.70
COM48B1	B1	26.40	14.99
COM50B1	B1	22.92	11.79
COM51B1	B1	27.90	19.39
COM55B1	B1	31.16	21.36
COM59B1*	B1	32.46	20.04
COM60B1*	B1	27.28	4.16
COM62B1*	B1	25.28	-7.37
COM63B1	B1	18.36	10.07
COM64B1	B1	15.36	8.05
PZ006B1	B1	NA	NA
PZ029B1	B1	NA	NA
S067B1	B1	39.42	31.10
S071B1	B1	41.18	30.16
S072B1	B1	37.38	28.11
S073B1	B1	38.39	29.88
S074B1	B1	39.45	31.74
S075B1	B1	38.70	28.76

TABLE 1
2021 WATER ELEVATION REPORT
THE COMPANIES OFFSITE OPERABLE UNIT
SUNNYVALE, CALIFORNIA

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
S076B1	B1	36.60	24.41
S077B1	B1	39.70	29.93
S078B1	B1	39.02	31.60
COM01B2*	B2	32.76	5.76
COM02B2	B2	31.12	22.28
COM03B2*	B2	27.79	NA
COM05B2	B2	27.89	16.77
COM06B2*	B2	35.24	-1.87
COM08B2	B2	35.73	24.08
COM08B2EH	B2	36.26	24.06
COM15B2	B2	38.27	27.14
COM18B2H	B2	35.97	28.52
COM21B2H	B2	34.69	22.91
COM23B2H	B2	28.82	17.23
COM35B2	B2	27.47	15.16
COM36B2	B2	36.53	33.01
COM43B2	B2	28.93	18.90
COM46B2*	B2	25.02	4.02
COM49B2	B2	23.05	12.18
COM51B2	B2	27.96	20.36
COM52B2	B2	23.61	12.69
COM59B2*	B2	32.38	-1.22
COM60B2*	B2	27.27	-5.36
COM61B2*	B2	24.58	4.93
COM63B2	B2	18.47	13.38
COM65B2	B2	15.24	7.96
PZ006B2	B2	NA	NA
COM03B3	B3	28.52	20.87
COM06B3*	B3	35.25	20.75
COM09B3*	B3	35.73	-7.58
COM11B3	B3	29.80	22.41
COM15B3	B3	38.18	30.07
COM17B3H	B3	28.80	23.23
COM27B3H	B3	29.56	19.17
COM33B3	B3	26.51	18.34
COM36B3	B3	36.70	35.82
COM38B3	B3	28.80	18.89
COM43B3	B3	28.89	20.66
COM45B3	B3	28.30	23.30
COM49B3	B3	23.13	16.72
COM53B3	B3	33.76	23.11
COM54B3	B3	31.23	25.89

**TABLE 1
2021 WATER ELEVATION REPORT
THE COMPANIES OFFSITE OPERABLE UNIT
SUNNYVALE, CALIFORNIA**

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
COM56B3	B3	32.92	22.16
PZ029B3	B3	NA	NA
COM01B4	B4	32.89	25.06
COM06B4*	B4	35.26	-32.74
COM08B4	B4	36.42	NA
COM09B4	B4	36.57	28.32
COM15B4	B4	38.13	33.71
COM41B4	B4	26.42	19.90
COM53B4	B4	33.82	26.52
COM54B4	B4	31.25	25.83
COM01B5	B5	32.93	31.07

Notes:

* – Extraction well
 ^ – Well decommissioned
 msl – mean sea level
 NA – Data not available
 Wells were resurveyed in December 2018

**TABLE 2
2021 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS: MONITORING WELLS
THE COMPANIES OFFSITE OPERABLE UNIT**

Location ID	COM01A	COM01B5	COM02A	COM02B1	COM03A	COM04A	COM05A	COM05B1	COM05B2	COM07B1	COM07B1	COM11A	COM11B1	
Date Sampled	11/11/2021	11/11/2021	11/10/2021	11/10/2021	11/10/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	
Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,1,2,2-Tetrachloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,1,2-Trichloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,1,2-Trichlorotrifluoroethane (CFC 113)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,2-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,2-Dichloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,2-Dichloropropane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,3-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
1,4-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Benzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Bromodichloromethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Bromoform	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
Bromomethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
Carbon Tetrachloride	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Chlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Chloroethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
Chloroform	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
Chloromethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
cis-1,2-Dichloroethene	ug/l	22	ND 0.50	1.4	3.2	17	1	ND 0.50	ND 0.50	ND 0.50	260	240	ND 0.50	ND 0.50
cis-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Dibromochloromethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Ethylbenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
m-Xylene & p-Xylene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Methylene Chloride	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
o-Xylene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Tetrachloroethene (PCE)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Toluene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
trans-1,2-Dichloroethene	ug/l	ND 0.50	ND 0.50	ND 0.50	1.5	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	2.1	ND 0.50	ND 0.50
trans-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Trichloroethene (TCE)	ug/l	54	ND 0.50	6.7	4.6	93	17	2.3	ND 0.50	ND 0.50	3.1	2.4	1.1	ND 0.50
Trichlorofluoromethane (CFC 11)	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 5.0	ND 4.0	ND 1.0	ND 1.0
Vinyl Chloride	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50
Xylenes, Total	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 2.0	ND 0.50	ND 0.50

Notes:
 ND - Result was below the detection limit
 *1 - LCS/LCSD RPD exceeds control limits
 F1 - MS and/or MSD recovery exceeds control limits

**TABLE 2
2021 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS: MONITORING WELLS
THE COMPANIES OFFSITE OPERABLE UNIT**

Location ID	COM15B2	COM15B3	COM15B3	COM15B4	COM18B2H	COM28B2	COM29A	COM29B1	COM32B1	COM35B2	COM36B2	COM36B3	COM37B1
Date Sampled	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/11/2021	11/10/2021	11/15/2021	11/15/2021	11/11/2021	11/10/2021	11/11/2021	11/11/2021	11/11/2021
Sample Purpose	REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1-Trichloroethane (TCA)	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,1,2,2-Tetrachloroethane	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,1,2-Trichloroethane	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,1,2-Trichlorotrifluoroethane (CFC 113)	ug/l	73	4.5	3.9	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	1.4 *1	ND 0.50	ND 0.50	ND 0.50
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	1.8	ND 0.50	ND 0.50	0.64
1,2-Dichlorobenzene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,2-Dichloroethane	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,2-Dichloropropane	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,3-Dichlorobenzene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
1,4-Dichlorobenzene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Benzene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Bromodichloromethane	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Bromoform	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
Bromomethane	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
Carbon Tetrachloride	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Chlorobenzene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Chloroethane	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
Chloroform	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
Chloromethane	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
cis-1,2-Dichloroethene	ug/l	11	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	1.8	ND 0.50	86	ND 0.50	ND 0.50	7.8
cis-1,3-Dichloropropene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Dibromochloromethane	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Ethylbenzene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
m-Xylene & p-Xylene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Methylene Chloride	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
o-Xylene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Tetrachloroethene (PCE)	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Toluene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
trans-1,2-Dichloroethene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	1.6	ND 0.50	ND 0.50	ND 0.50
trans-1,3-Dichloropropene	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50
Trichloroethene (TCE)	ug/l	260	90	84	ND 0.50	45	ND 0.50	17	ND 0.50	4.2	ND 0.50	7.8	34
Trichlorofluoromethane (CFC 11)	ug/l	ND 4.0	ND 2.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.0	ND 1.0	ND 1.0	ND 1.0
Vinyl Chloride	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	11	ND 0.50	ND 0.50	ND 0.50
Xylenes, Total	ug/l	ND 2.0	ND 1.0	ND 1.0	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 1.0	ND 0.50	ND 0.50	ND 0.50

Notes:

ND - Result was below the detection limit

*1 - LCS/LCSD RPD exceeds control limits

F1 - MS and/or MSD recovery exceeds control limits

**TABLE 2
2021 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS: MONITORING WELLS
THE COMPANIES OFFSITE OPERABLE UNIT**

Location ID	COM41A	COM42B1	COM43B1	COM43B2	COM46B1	COM48B1	COM49A	COM49B2	COM50B1	COM51B1	COM51B2	COM52B2	COM53B3
Date Sampled	11/10/2021	11/11/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/11/2021	11/11/2021	11/10/2021	11/11/2021
Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,1,2,2-Tetrachloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,1,2-Trichloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,1,2-Trichlorotrifluoroethane (CFC 113)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	0.7	ND 0.50	ND 0.50	2.2	23	ND 0.50	ND 0.50	ND 0.50
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,2-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,2-Dichloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,2-Dichloropropane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,3-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,4-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Benzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Bromodichloromethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Bromoform	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Bromomethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Carbon Tetrachloride	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Chlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Chloroethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Chloroform	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Chloromethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
cis-1,2-Dichloroethene	ug/l	ND 0.50	ND 0.50	0.66	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
cis-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Dibromochloromethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Ethylbenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
m-Xylene & p-Xylene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Methylene Chloride	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
o-Xylene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Tetrachloroethene (PCE)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Toluene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
trans-1,2-Dichloroethene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
trans-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Trichloroethene (TCE)	ug/l	33	ND 0.50	0.91	ND 0.50	ND 0.50	ND 0.50	5.3	ND 0.50	2.5	ND 0.50	ND 0.50	ND 0.50
Trichlorofluoromethane (CFC 11)	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Vinyl Chloride	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Xylenes, Total	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50

Notes:
 ND - Result was below the detection limit
 *1 - LCS/LCSD RPD exceeds control limits
 F1 - MS and/or MSD recovery exceeds control limits

**TABLE 2
2021 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS: MONITORING WELLS
THE COMPANIES OFFSITE OPERABLE UNIT**

Location ID		COM53B4	COM54B3	COM55B1	COM55B1	COM63B1	COM63B2	COM64B1	COM65B2	S067A	S067B1	S067B1	S071A	S071B1
Date Sampled		11/11/2021	11/11/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021
Sample Purpose		REG	REG	FD	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,1,2,2-Tetrachloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,1,2-Trichloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,1,2-Trichlorotrifluoroethane (CFC 113)	ug/l	ND 0.50	ND 0.50	6.5	7.5	6.5	ND 0.50	4	1.3	ND 0.50	3.2	3.2	ND 1.0	2.2
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,2-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,2-Dichloroethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,2-Dichloropropane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,3-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
1,4-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Benzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Bromodichloromethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Bromoform	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 4.0	ND 4.0	ND 2.0	ND 1.0
Bromomethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 4.0	ND 4.0	ND 2.0	ND 1.0
Carbon Tetrachloride	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Chlorobenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Chloroethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 4.0	ND 4.0	ND 2.0	ND 1.0
Chloroform	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	2.1	ND 4.0	ND 4.0	ND 2.0	ND 1.0
Chloromethane	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 4.0	ND 4.0	ND 2.0	ND 1.0
cis-1,2-Dichloroethene	ug/l	ND 0.50	ND 0.50	0.52	0.55	ND 0.50	ND 0.50	ND 0.50	ND 0.50	44 F1	85	82	77	26
cis-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Dibromochloromethane	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Ethylbenzene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
m-Xylene & p-Xylene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Methylene Chloride	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 4.0	ND 4.0	ND 2.0	ND 1.0
o-Xylene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Tetrachloroethene (PCE)	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Toluene	ug/l	ND 0.50	8.8	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
trans-1,2-Dichloroethene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
trans-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Trichloroethene (TCE)	ug/l	ND 0.50	ND 0.50	46	55	26	ND 0.50	ND 0.50	ND 0.50	56 F1	200	180	62	54
Trichlorofluoromethane (CFC 11)	ug/l	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 4.0	ND 4.0	ND 2.0	ND 1.0
Vinyl Chloride	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	8.9 F1	ND 2.0	ND 2.0	ND 1.0	ND 0.50
Xylenes, Total	ug/l	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.0	ND 2.0	ND 1.0	ND 0.50

Notes:
 ND - Result was below the detection limit
 *1 - LCS/LCSD RPD exceeds control limits
 F1 - MS and/or MSD recovery exceeds control limits

**TABLE 2
2021 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS: MONITORING WELLS
THE COMPANIES OFFSITE OPERABLE UNIT**

Location ID	S072A	S072B1	S073A	S073B1	S074B1	S075A2	S075B1	S076A	S076B1	S077A	S077B1	S078A	S078B1	S151A	
Date Sampled	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/15/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/15/2021	11/15/2021	11/15/2021	
Sample Purpose	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	
1,1,1-Trichloroethane (TCA)	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,1,2,2-Tetrachloroethane	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,1,2-Trichloroethane	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,1,2-Trichlorotrifluoroethane (CFC 113)	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	6.3	ND 1.0	ND 2.0	ND 0.50	ND 0.50	6.9	31	ND 0.50	ND 0.50	ND 2.0
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	5.4	ND 0.50	ND 0.50	ND 2.0
1,2-Dichlorobenzene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	2.3	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,2-Dichloroethane	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,2-Dichloropropane	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,3-Dichlorobenzene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
1,4-Dichlorobenzene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Benzene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Bromodichloromethane	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Bromoform	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
Bromomethane	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
Carbon Tetrachloride	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Chlorobenzene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Chloroethane	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
Chloroform	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
Chloromethane	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
cis-1,2-Dichloroethene	ug/l	15	15	6.1	55	80	71	25	27	7.2	67	120	3.6	ND 0.50	220
cis-1,3-Dichloropropene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Dibromochloromethane	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Ethylbenzene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
m-Xylene & p-Xylene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Methylene Chloride	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
o-Xylene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Tetrachloroethene (PCE)	ug/l	ND 1.0	ND 2.0	1	ND 0.50	ND 2.5	1.4	ND 2.0	0.58	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Toluene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
trans-1,2-Dichloroethene	ug/l	ND 1.0	ND 2.0	ND 0.50	1.2	ND 2.5	1.2	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
trans-1,3-Dichloropropene	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Trichloroethene (TCE)	ug/l	94	120	39	1.3	260	91	170	73	7.6	68	300	49	ND 0.50	14
Trichlorofluoromethane (CFC 11)	ug/l	ND 2.0	ND 4.0	ND 1.0	ND 1.0	ND 5.0	ND 2.0	ND 4.0	1.1	ND 1.0	ND 2.0	ND 10	ND 1.0	ND 1.0	ND 4.0
Vinyl Chloride	ug/l	ND 1.0	ND 2.0	ND 0.50	65	ND 2.5	ND 1.0	ND 2.0	ND 0.50	1.7	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0
Xylenes, Total	ug/l	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 2.5	ND 1.0	ND 2.0	ND 0.50	ND 0.50	ND 1.0	ND 5.0	ND 0.50	ND 0.50	ND 2.0

Notes:
 ND - Result was below the detection limit
 *1 - LCS/LCSD RPD exceeds control limits
 F1 - MS and/or MSD recovery exceeds control limits

**TABLE 2
2021 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS: MONITORING WELLS
THE COMPANIES OFFSITE OPERABLE UNIT**

Location ID		S152A
Date Sampled		11/15/2021
Sample Purpose		REG
Parameter Name	Report Units	Result
1,1,1-Trichloroethane (TCA)	ug/l	ND 2.0
1,1,2,2-Tetrachloroethane	ug/l	ND 2.0
1,1,2-Trichloroethane	ug/l	ND 2.0
1,1,2-Trichlorotrifluoroethane (CFC 113)	ug/l	ND 2.0
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 2.0
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 2.0
1,2-Dichlorobenzene	ug/l	ND 2.0
1,2-Dichloroethane	ug/l	ND 2.0
1,2-Dichloropropane	ug/l	ND 2.0
1,3-Dichlorobenzene	ug/l	ND 2.0
1,4-Dichlorobenzene	ug/l	ND 2.0
Benzene	ug/l	ND 2.0
Bromodichloromethane	ug/l	ND 2.0
Bromoform	ug/l	ND 4.0
Bromomethane	ug/l	ND 4.0
Carbon Tetrachloride	ug/l	ND 2.0
Chlorobenzene	ug/l	ND 2.0
Chloroethane	ug/l	ND 4.0
Chloroform	ug/l	ND 4.0
Chloromethane	ug/l	ND 4.0
cis-1,2-Dichloroethene	ug/l	150
cis-1,3-Dichloropropene	ug/l	ND 2.0
Dibromochloromethane	ug/l	ND 2.0
Ethylbenzene	ug/l	ND 2.0
m-Xylene & p-Xylene	ug/l	ND 2.0
Methylene Chloride	ug/l	ND 4.0
o-Xylene	ug/l	ND 2.0
Tetrachloroethene (PCE)	ug/l	ND 2.0
Toluene	ug/l	ND 2.0
trans-1,2-Dichloroethene	ug/l	2.1
trans-1,3-Dichloropropene	ug/l	ND 2.0
Trichloroethene (TCE)	ug/l	41
Trichlorofluoromethane (CFC 11)	ug/l	ND 4.0
Vinyl Chloride	ug/l	ND 2.0
Xylenes, Total	ug/l	ND 2.0

Notes:

ND - Result was below the detection limit

*1 - LCS/LCSD RPD exceeds control limits

F1 - MS and/or MSD recovery exceeds control limits

**TABLE 1
2021 WATER ELEVATION REPORT
PHILIPS ELECTRONICS
811 EAST ARQUES AVENUE, SUNNYVALE, CALIFORNIA**

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
440S*	A	31.45	NA
440T*	A	43.77	31.42
811T*	A	48.41	34.75
G4	A	46.89	NA
M2	A	47.85	NA
R2	A	48.49	37.22
S001A	A	49.30	41.50
S003A	A	47.24	36.73
S004A	A	44.92	35.23
S005A	A	41.44	34.17
S006A	A	46.09	36.96
S007A	A	45.89	37.53
S021AR	A	52.81	NA
S024A	A	47.44	38.18
S025A	A	44.73	31.44
S026A	A	44.93	31.45
S027A	A	43.89	36.11
S028A	A	45.12	36.38
S033A	A	47.54	38.00
S043A	A	42.69	32.39
S048A	A	42.81	32.78
S049A	A	45.20	34.44
S068A^	A	NA	NA
S069A^	A	NA	NA
S079A	A	42.37	35.51
S080A	A	42.82	35.98
S081A	A	43.52	36.67
S082A	A	44.66	36.64
S083A	A	44.42	36.25
S088A	A	46.18	32.37
S090A	A	44.05	37.12
S092A*	A	41.87	29.17
S100A*	A	42.32	32.49

TABLE 1
2021 WATER ELEVATION REPORT
PHILIPS ELECTRONICS
811 EAST ARQUES AVENUE, SUNNYVALE, CALIFORNIA

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
S101A*	A	41.99	30.49
S134A	A	46.51	38.04
S135A	A	43.47	32.59
S136A	A	49.26	36.34
S137A*	A	48.30	35.76
S138A*	A	48.95	35.64
S139A*	A	48.63	35.05
S140A*	A	49.01	35.18
S141A	A	49.51	34.56
S142A*	A	48.50	34.77
S143A*	A	48.12	34.84
S144A*	A	46.83	34.68
S145A*	A	48.98	35.35
S146A*	A	48.85	36.22
S157A	A	49.24	NA
S158A'	A	49.52	36.53
S159A'	A	49.37	35.42
S160A'	A	49.76	34.61
PZ012B1^	B1	NA	NA
PZ034B1	B1	44.57	30.84
PZ077B1	B1	43.45	32.74
S001B1	B1	49.61	44.07
S003B1	B1	48.04	37.06
S004B1	B1	45.05	35.24
S005B1	B1	41.17	33.36
S024B1	B1	47.36	37.81
S025B1	B1	44.40	29.26
S026B1	B1	44.54	31.84
S027B1	B1	43.56	35.95
S028B1	B1	45.82	36.08
S048B1	B1	42.63	32.49
S049B1	B1	45.47	38.67
S065B1	B1	43.52	33.73

TABLE 1
2021 WATER ELEVATION REPORT
PHILIPS ELECTRONICS
811 EAST ARQUES AVENUE, SUNNYVALE, CALIFORNIA

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
S068B1^	B1	NA	NA
S069B1^	B1	NA	NA
S080B1	B1	42.76	34.37
S082B1	B1	44.58	NA
S100B1*	B1	41.45	31.60
S101B1*	B1	41.89	27.62
S111B1	B1	43.44	35.11
S133B1	B1	48.79	39.92
S134B1	B1	46.27	39.32
S141B1*	B1	48.50	37.06
S147B1*	B1	42.64	5.24
S148B1*	B1	42.05	4.85
S149B1*	B1	41.68	27.51
S153B1	B1	43.14	34.89
S154B1*	B1	42.90	28.36
S157B1	B1	49.14	43.57
PZ012B2^	B2	NA	NA
PZ022B2^	B2	NA	NA
PZ034B2	B2	44.60	31.50
PZ077B2	B2	43.32	35.99
S048B2*	B2	42.33	32.18
S154B2*	B2	44.18	28.78
PZ012B3^	B3	NA	NA
PZ034B3	B3	44.73	29.62
S003B3	B3	48.78	42.03
S005B3	B3	41.13	41.28
S048B3	B3	42.68	38.43
S101B3	B3	42.12	37.58
S154B3*	B3	44.26	23.72
S025B4	B4	44.25	42.08

TABLE 1
2021 WATER ELEVATION REPORT
PHILIPS ELECTRONICS
811 EAST ARQUES AVENUE, SUNNYVALE, CALIFORNIA

Well ID	Aquifer	Measure Point Elevation (feet, msl)	11 October 2021 Water Elevation (feet, msl)
S100B4	B4	41.77	42.48
S101B4	B4	42.27	42.37

Notes:
* - Extraction well
^ - Well decommissioned
' - Well installed in 2020
msl - mean sea level
NA - Data not available
Active wells were resurveyed in December 2018

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		440S	440T	811T	S048B2	S048B2	S092A	S100A	S100B1
Date Sampled		10/21/2021	10/20/2021	10/20/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021
Analysis Date		10/29/2021	10/29/2021	10/29/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,1,2,2-Tetrachloroethane	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,1,2-Trichloroethane	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,1-Dichloroethane (1,1-DCA)	ug/l	0.56	ND 5.0	0.84	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,1-Dichloropropene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichlorobenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	ug/l	1.8	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
1,2,4-Trimethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromoethane (EDB)	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,2-Dichlorobenzene	ug/l	1.1	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,2-Dichloroethane	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,2-Dichloropropane	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,3,5-Trimethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
1,3-Dichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
2,2-Dichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Butanone (MEK)	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Chlorotoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
4-Chlorotoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		440S	440T	811T	S048B2	S048B2	S092A	S100A	S100B1
Date Sampled		10/21/2021	10/20/2021	10/20/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021
Analysis Date		10/29/2021	10/29/2021	10/29/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Acetone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Benzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromobenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromochloromethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromodichloromethane	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Bromoform	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
Bromomethane	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
Carbon Disulfide	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Carbon Tetrachloride	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Chlorobenzene	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Chloroethane	ug/l	ND 1.0	ND 10	5.3	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
Chloroform	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
Chloromethane	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
cis-1,2-Dichloroethene	ug/l	39	340	2	ND 10	ND 10	110	42	ND 10
cis-1,3-Dichloropropene	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Dibromochloromethane	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Dibromomethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Dichlorodifluoromethane (CFC 12)	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
Ethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Hexachlorobutadiene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Methyl Isobutyl Ketone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
MTBE	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		440S	440T	811T	S048B2	S048B2	S092A	S100A	S100B1
Date Sampled		10/21/2021	10/20/2021	10/20/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021	10/21/2021
Analysis Date		10/29/2021	10/29/2021	10/29/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Styrene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethene (PCE)	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	0.69	ND 10
Toluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,2-Dichloroethene	ug/l	ND 0.50	ND 5.0	2.1	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
trans-1,3-Dichloropropene	ug/l	ND 0.50	ND 5.0	ND 0.50	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Trichloroethene (TCE)	ug/l	25	210	2.8	510	480	59	49	520
Trichlorofluoromethane (CFC 11)	ug/l	ND 1.0	ND 10	ND 1.0	ND 20	ND 20	ND 2.0	ND 1.0	ND 20
Vinyl Acetate	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	ug/l	5.2	20	2.2	ND 10	ND 10	ND 1.0	ND 0.50	ND 10
Xylenes, Total	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S101A	S101B1	S137A	S138A	S138A	S139A	S140A	S141B1
Date Sampled		10/21/021	10/21/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021
Analysis Date		10/31/2021	10/31/2021	10/31/2021	10/29/2021	11/01/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane (TCA)	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,1,2,2-Tetrachloroethane	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,1,2-Trichloroethane	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 1.0	ND 10	23	ND 250	140	ND 50	ND 1000	ND 25
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 1.0	ND 10	ND 10	ND 250	130	ND 50	ND 1000	49
1,1-Dichloropropene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichlorobenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
1,2,4-Trimethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromoethane (EDB)	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,2-Dichlorobenzene	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,2-Dichloroethane	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,2-Dichloropropane	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,3,5-Trimethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
1,3-Dichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
2,2-Dichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Butanone (MEK)	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Chlorotoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
4-Chlorotoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S101A	S101B1	S137A	S138A	S138A	S139A	S140A	S141B1
Date Sampled		10/21/021	10/21/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021
Analysis Date		10/31/2021	10/31/2021	10/31/2021	10/29/2021	11/01/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Acetone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Benzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromobenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromochloromethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromodichloromethane	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Bromoform	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
Bromomethane	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
Carbon Disulfide	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Carbon Tetrachloride	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Chlorobenzene	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Chloroethane	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
Chloroform	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
Chloromethane	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
cis-1,2-Dichloroethene	ug/l	140	24	79	11000	7400	3700	57000	2400
cis-1,3-Dichloropropene	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Dibromochloromethane	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Dibromomethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Dichlorodifluoromethane (CFC 12)	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
Ethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Hexachlorobutadiene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Methyl Isobutyl Ketone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
MTBE	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S101A	S101B1	S137A	S138A	S138A	S139A	S140A	S141B1
Date Sampled		10/21/021	10/21/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021
Analysis Date		10/31/2021	10/31/2021	10/31/2021	10/29/2021	11/01/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	FD	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Styrene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethene (PCE)	ug/l	1.3	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Toluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,2-Dichloroethene	ug/l	2.2	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	26
trans-1,3-Dichloropropene	ug/l	ND 1.0	ND 10	ND 10	ND 250	ND 100	ND 50	ND 1000	ND 25
Trichloroethene (TCE)	ug/l	76	630	ND 10	ND 250	320	ND 50	ND 1000	2900
Trichlorofluoromethane (CFC 11)	ug/l	ND 2.0	ND 20	ND 20	ND 500	ND 200	ND 100	ND 2000	ND 50
Vinyl Acetate	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	ug/l	ND 1.0	ND 10	560	1900	2600	270	1700	ND 25
Xylenes, Total	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S142A	S143A	S144A	S145A	S146A	S147B1	S148B1	S149B1
Date Sampled		10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/21/2021	10/21/2021
Analysis Date		10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,1,2,2-Tetrachloroethane	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,1,2-Trichloroethane	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,1-Dichloroethane (1,1-DCA)	ug/l	8.1	6.1	4.1	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,1-Dichloropropene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichlorobenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
1,2,4-Trimethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromoethane (EDB)	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,2-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,2-Dichloroethane	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,2-Dichloropropane	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,3,5-Trimethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
1,3-Dichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
2,2-Dichloropropane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Butanone (MEK)	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Chlorotoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
4-Chlorotoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S142A	S143A	S144A	S145A	S146A	S147B1	S148B1	S149B1
Date Sampled		10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/21/2021	10/21/2021
Analysis Date		10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Acetone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Benzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromobenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromochloromethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Bromodichloromethane	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Bromoform	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
Bromomethane	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
Carbon Disulfide	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Carbon Tetrachloride	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Chlorobenzene	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Chloroethane	ug/l	7.3	5.3	2.2	ND 100	ND 200	ND 20	ND 40	ND 10
Chloroform	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
Chloromethane	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
cis-1,2-Dichloroethene	ug/l	10	48	67	3900	4700	690	350	22
cis-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Dibromochloromethane	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Dibromomethane	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Dichlorodifluoromethane (CFC 12)	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
Ethylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Hexachlorobutadiene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Methyl Isobutyl Ketone	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Methylene Chloride	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
MTBE	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S142A	S143A	S144A	S145A	S146A	S147B1	S148B1	S149B1
Date Sampled		10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/21/2021	10/21/2021
Analysis Date		10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021	10/31/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Styrene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethene (PCE)	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Toluene	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,2-Dichloroethene	ug/l	4.6	6.2	2.8	ND 50	ND 100	ND 10	ND 20	ND 5.0
trans-1,3-Dichloropropene	ug/l	ND 0.50	ND 0.50	ND 1.0	ND 50	ND 100	ND 10	ND 20	ND 5.0
Trichloroethene (TCE)	ug/l	1.5	6.2	16	ND 50	1100	660	1800	390
Trichlorofluoromethane (CFC 11)	ug/l	ND 1.0	ND 1.0	ND 2.0	ND 100	ND 200	ND 20	ND 40	ND 10
Vinyl Acetate	ug/l	NT	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	ug/l	17	83	24	490	130	ND 10	ND 20	ND 5.0
Xylenes, Total	ug/l	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S154B1	S154B2	S154B3
Date Sampled		10/20/2021	10/20/2021	10/20/2021
Analysis Date		11/01/2021	11/01/2021	11/01/2021
Sample Purpose		REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	NT	NT	NT
1,1,1-Trichloroethane (TCA)	ug/l	ND 25	ND 1.0	ND 0.50
1,1,2,2-Tetrachloroethane	ug/l	ND 25	ND 1.0	ND 0.50
1,1,2-Trichloroethane	ug/l	ND 25	ND 1.0	ND 0.50
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 25	ND 1.0	ND 0.50
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 25	ND 1.0	ND 0.50
1,1-Dichloropropene	ug/l	NT	NT	NT
1,2,3-Trichlorobenzene	ug/l	NT	NT	NT
1,2,3-Trichloropropane	ug/l	NT	NT	NT
1,2,4-Trichlorobenzene	ug/l	ND 50	ND 2.0	ND 1.0
1,2,4-Trimethylbenzene	ug/l	NT	NT	NT
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	NT	NT	NT
1,2-Dibromoethane (EDB)	ug/l	ND 25	ND 1.0	ND 0.50
1,2-Dichlorobenzene	ug/l	ND 25	ND 1.0	ND 0.50
1,2-Dichloroethane	ug/l	ND 25	ND 1.0	ND 0.50
1,2-Dichloropropane	ug/l	ND 25	ND 1.0	ND 0.50
1,3,5-Trimethylbenzene	ug/l	NT	NT	NT
1,3-Dichlorobenzene	ug/l	ND 25	ND 1.0	ND 0.50
1,3-Dichloropropane	ug/l	NT	NT	NT
1,4-Dichlorobenzene	ug/l	ND 25	ND 1.0	ND 0.50
2,2-Dichloropropane	ug/l	NT	NT	NT
2-Butanone (MEK)	ug/l	NT	NT	NT
2-Chlorotoluene	ug/l	NT	NT	NT
2-Hexanone	ug/l	NT	NT	NT
4-Chlorotoluene	ug/l	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S154B1	S154B2	S154B3
Date Sampled		10/20/2021	10/20/2021	10/20/2021
Analysis Date		11/01/2021	11/01/2021	11/01/2021
Sample Purpose		REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	NT	NT	NT
Acetone	ug/l	NT	NT	NT
Benzene	ug/l	NT	NT	NT
Bromobenzene	ug/l	NT	NT	NT
Bromochloromethane	ug/l	NT	NT	NT
Bromodichloromethane	ug/l	ND 25	ND 1.0	ND 0.50
Bromoform	ug/l	ND 50	ND 2.0	ND 1.0
Bromomethane	ug/l	ND 50	ND 2.0	ND 1.0
Carbon Disulfide	ug/l	NT	NT	NT
Carbon Tetrachloride	ug/l	ND 25	ND 1.0	ND 0.50
Chlorobenzene	ug/l	ND 25	ND 1.0	ND 0.50
Chloroethane	ug/l	ND 50	ND 2.0	ND 1.0
Chloroform	ug/l	ND 50	ND 2.0	ND 1.0
Chloromethane	ug/l	ND 50	ND 2.0	ND 1.0
cis-1,2-Dichloroethene	ug/l	ND 25	ND 1.0	1.0 F1
cis-1,3-Dichloropropene	ug/l	ND 25	ND 1.0	ND 0.50
Dibromochloromethane	ug/l	ND 25	ND 1.0	ND 0.50
Dibromomethane	ug/l	NT	NT	NT
Dichlorodifluoromethane (CFC 12)	ug/l	ND 50	ND 2.0	ND 1.0
Ethylbenzene	ug/l	NT	NT	NT
Hexachlorobutadiene	ug/l	NT	NT	NT
Isopropylbenzene	ug/l	NT	NT	NT
Methyl Isobutyl Ketone	ug/l	NT	NT	NT
Methylene Chloride	ug/l	ND 50	ND 2.0	ND 1.0
MTBE	ug/l	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: EXTRACTION WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA

Location ID		S154B1	S154B2	S154B3
Date Sampled		10/20/2021	10/20/2021	10/20/2021
Analysis Date		11/01/2021	11/01/2021	11/01/2021
Sample Purpose		REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	NT	NT	NT
n-Propylbenzene	ug/l	NT	NT	NT
Naphthalene	ug/l	NT	NT	NT
sec-Butylbenzene	ug/l	NT	NT	NT
Styrene	ug/l	NT	NT	NT
tert-Butylbenzene	ug/l	NT	NT	NT
Tetrachloroethene (PCE)	ug/l	ND 25	ND 1.0	ND 0.50
Toluene	ug/l	NT	NT	NT
trans-1,2-Dichloroethene	ug/l	ND 25	ND 1.0	ND 0.50
trans-1,3-Dichloropropene	ug/l	ND 25	ND 1.0	ND 0.50
Trichloroethene (TCE)	ug/l	1500	130	1.9 F1
Trichlorofluoromethane (CFC 11)	ug/l	ND 50	ND 2.0	ND 1.0
Vinyl Acetate	ug/l	NT	NT	NT
Vinyl Chloride	ug/l	ND 25	ND 1.0	ND 0.50
Xylenes, Total	ug/l	NT	NT	NT

Notes:

ND - Result was below the detection limit

NT - Sample not tested for given parameter

J - Estimated value below RL but above MDL

b - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S001A	S001B1	S003A	S003B1	S004B1	S005A	S005B1	S005B1
Date Sampled		11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/05/2021	11/05/2021	11/05/2021
Analysis Date		11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/18/2021	11/17/2021	11/18/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 0.10	ND 0.10	ND 0.40	ND 0.10	ND 0.10	ND 0.40	ND 1.0	ND 1.0
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.10	ND 0.10	ND 0.40	ND 0.10	ND 0.10	ND 0.40	ND 1.0	ND 1.0
1,1,2,2-Tetrachloroethane	ug/l	ND 0.11	ND 0.11	ND 0.44	ND 0.11	ND 0.11	ND 0.44	ND 1.1	ND 1.1
1,1,2-Trichloroethane	ug/l	ND 0.12	ND 0.12	ND 0.48	ND 0.12	ND 0.12	ND 0.48	ND 1.2	ND 1.2
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.10	ND 0.10	5	0.10 J	ND 0.10	ND 0.40	ND 1.0	ND 1.0
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.13	ND 0.13	0.89 J	ND 0.13	ND 0.13	ND 0.52	ND 1.3	ND 1.3
1,1-Dichloropropene	ug/l	ND 0.12	ND 0.12	ND 0.48	ND 0.12	ND 0.12	ND 0.48	ND 1.2	ND 1.2
1,2,3-Trichlorobenzene	ug/l	ND 0.40	ND 0.40	ND 1.6	ND 0.40	ND 0.40	ND 1.6	ND 4.0	ND 4.0
1,2,3-Trichloropropane	ug/l	ND 0.13	ND 0.13	ND 0.52	ND 0.13	ND 0.13	ND 0.52	ND 1.3	ND 1.3
1,2,4-Trichlorobenzene	ug/l	ND 0.25	ND 0.25	ND 1.0	ND 0.25	ND 0.25	ND 1.0	ND 2.5	ND 2.5
1,2,4-Trimethylbenzene	ug/l	ND 0.32	ND 0.32	ND 1.3	ND 0.32	ND 0.32	ND 1.3	ND 3.2	ND 3.2
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 0.20	ND 0.20	ND 0.80	ND 0.20	ND 0.20	ND 0.80	ND 2.0	ND 2.0
1,2-Dibromoethane (EDB)	ug/l	ND 0.12	ND 0.12	ND 0.48	ND 0.12	ND 0.12	ND 0.48	ND 1.2	ND 1.2
1,2-Dichlorobenzene	ug/l	ND 0.097	ND 0.097	0.52 J	0.45 J	ND 0.097	ND 0.39	ND 0.97	ND 0.97
1,2-Dichloroethane	ug/l	ND 0.14	ND 0.14	ND 0.56	ND 0.14	ND 0.14	ND 0.56	ND 1.4	ND 1.4
1,2-Dichloropropane	ug/l	ND 0.15	ND 0.15	ND 0.60	ND 0.15	ND 0.15	ND 0.60	ND 1.5	ND 1.5
1,3,5-Trimethylbenzene	ug/l	ND 0.16	ND 0.16	ND 0.64	ND 0.16	ND 0.16	ND 0.64	ND 1.6	ND 1.6
1,3-Dichlorobenzene	ug/l	ND 0.086	ND 0.086	ND 0.34	ND 0.086	ND 0.086	ND 0.34	ND 0.86	ND 0.86
1,3-Dichloropropane	ug/l	ND 0.10	ND 0.10	ND 0.40	ND 0.10	ND 0.10	ND 0.40	ND 1.0	ND 1.0
1,4-Dichlorobenzene	ug/l	ND 0.083	ND 0.083	ND 0.33	ND 0.083	ND 0.083	ND 0.33	ND 0.83	ND 0.83
2,2-Dichloropropane	ug/l	ND 0.46	ND 0.46	ND 1.8	ND 0.46	ND 0.46	ND 1.8	ND 4.6	ND 4.6
2-Butanone (MEK)	ug/l	ND 0.33	ND 0.33	ND 1.3	ND 0.33	ND 0.33	ND 1.3	ND 3.3	ND 3.3
2-Chlorotoluene	ug/l	ND 0.11	ND 0.11	ND 0.44	ND 0.11	ND 0.11	ND 0.44	ND 1.1	ND 1.1
2-Hexanone	ug/l	ND 0.17	ND 0.17	ND 0.68	ND 0.17	ND 0.17	ND 0.68	ND 1.7	ND 1.7
4-Chlorotoluene	ug/l	ND 0.10	ND 0.10	ND 0.40	ND 0.10	ND 0.10	ND 0.40	ND 1.0	ND 1.0

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S001A	S001B1	S003A	S003B1	S004B1	S005A	S005B1	S005B1
Date Sampled		11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/05/2021	11/05/2021	11/05/2021
Analysis Date		11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/18/2021	11/17/2021	11/18/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 0.15	ND 0.15	ND 0.60	ND 0.15	ND 0.15	ND 0.60	ND 1.5	ND 1.5
Acetone	ug/l	ND 3.8	ND 3.8	ND 15	ND 3.8	ND 3.8	ND 15	ND 38	ND 38
Benzene	ug/l	ND 0.080	ND 0.080	ND 0.32	ND 0.080	ND 0.080	ND 0.32	ND 0.80	ND 0.80
Bromobenzene	ug/l	ND 0.091	ND 0.091	ND 0.36	ND 0.091	ND 0.091	ND 0.36	ND 0.91	ND 0.91
Bromochloromethane	ug/l	ND 0.18	ND 0.18	ND 0.72	ND 0.18	ND 0.18	ND 0.72	ND 1.8	ND 1.8
Bromodichloromethane	ug/l	ND 0.14	ND 0.14	ND 0.56	ND 0.14	ND 0.14	ND 0.56	ND 1.4	ND 1.4
Bromoform	ug/l	ND 0.19	ND 0.19	ND 0.76	ND 0.19	ND 0.19	ND 0.76	ND 1.9	ND 1.9
Bromomethane	ug/l	ND 0.21	ND 0.21	ND 0.84	ND 0.21	ND 0.21	ND 0.84	ND 2.1	ND 2.1
Carbon Disulfide	ug/l	ND 0.36	ND 0.36	ND 1.4	ND 0.36	ND 0.36	ND 1.4	ND 3.6	ND 3.6
Carbon Tetrachloride	ug/l	ND 0.12	ND 0.12	ND 0.48	ND 0.12	ND 0.12	ND 0.48	ND 1.2	ND 1.2
Chlorobenzene	ug/l	ND 0.070	ND 0.070	ND 0.28	ND 0.070	ND 0.070	ND 0.28	ND 0.70	ND 0.70
Chloroethane	ug/l	ND 0.24	ND 0.24	ND 0.96	ND 0.24	ND 0.24	ND 0.96	ND 2.4	ND 2.4
Chloroform	ug/l	ND 0.12	ND 0.12	ND 0.48	ND 0.12	ND 0.12	ND 0.48	ND 1.2	ND 1.2
Chloromethane	ug/l	ND 0.26	ND 0.26	ND 1.0	ND 0.26	ND 0.26	ND 1.0	ND 2.6	ND 2.6
cis-1,2-Dichloroethene	ug/l	0.21 J	ND 0.18	200	0.63	ND 0.18	78	220	200
cis-1,3-Dichloropropene	ug/l	ND 0.15	ND 0.15	ND 0.60	ND 0.15	ND 0.15	ND 0.60	ND 1.5	ND 1.5
Dibromochloromethane	ug/l	ND 0.16	ND 0.16	ND 0.64	ND 0.16	ND 0.16	ND 0.64	ND 1.6	ND 1.6
Dibromomethane	ug/l	ND 0.17	ND 0.17	ND 0.68	ND 0.17	ND 0.17	ND 0.68	ND 1.7	ND 1.7
Dichlorodifluoromethane (CFC 12)	ug/l	ND 0.32	ND 0.32	ND 1.3	ND 0.32	ND 0.32	ND 1.3	ND 3.2	ND 3.2
Ethylbenzene	ug/l	ND 0.084	ND 0.084	ND 0.34	ND 0.084	ND 0.084	ND 0.34	ND 0.84	ND 0.84
Hexachlorobutadiene	ug/l	ND 0.23	ND 0.23	ND 0.92	ND 0.23	ND 0.23	ND 0.92	ND 2.3	ND 2.3
Isopropylbenzene	ug/l	ND 0.11	ND 0.11	ND 0.44	ND 0.11	ND 0.11	ND 0.44	ND 1.1	ND 1.1
Methyl Isobutyl Ketone	ug/l	ND 0.11	ND 0.11	ND 0.44	ND 0.11	ND 0.11	ND 0.44	ND 1.1	ND 1.1
Methylene Chloride	ug/l	ND 0.16	ND 0.16	ND 0.64	ND 0.16	ND 0.16	ND 0.64	ND 1.6	ND 1.6
MTBE	ug/l	ND 0.12	ND 0.12	ND 0.48	ND 0.12	ND 0.12	ND 0.48	ND 1.2	ND 1.2

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S001A	S001B1	S003A	S003B1	S004B1	S005A	S005B1	S005B1
Date Sampled		11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/05/2021	11/05/2021	11/05/2021
Analysis Date		11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/18/2021	11/17/2021	11/18/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 0.18	ND 0.18	ND 0.72	ND 0.18	ND 0.18	ND 0.72	ND 1.8	ND 1.8
n-Propylbenzene	ug/l	ND 0.11	ND 0.11	ND 0.44	ND 0.11	ND 0.11	ND 0.44	ND 1.1	ND 1.1
Naphthalene	ug/l	ND 0.48	ND 0.48	ND 1.9	ND 0.48	ND 0.48	ND 1.9	ND 4.8	ND 4.8
sec-Butylbenzene	ug/l	ND 0.14	ND 0.14	ND 0.56	ND 0.14	ND 0.14	ND 0.56	ND 1.4	ND 1.4
Styrene	ug/l	ND 0.13	ND 0.13	ND 0.52	ND 0.13	ND 0.13	ND 0.52	ND 1.3	ND 1.3
tert-Butylbenzene	ug/l	ND 0.13	ND 0.13	ND 0.52	ND 0.13	ND 0.13	ND 0.52	ND 1.3	ND 1.3
Tetrachloroethene (PCE)	ug/l	ND 0.10	ND 0.10	ND 0.40	ND 0.10	ND 0.10	2.3	2.4 J	1.9 J
Toluene	ug/l	ND 0.095	ND 0.095	ND 0.38	ND 0.095	ND 0.095	ND 0.38	ND 0.95	ND 0.95
trans-1,2-Dichloroethene	ug/l	ND 0.11	ND 0.11	2.4	ND 0.11	ND 0.11	0.89 J	1.9 J	ND 1.1
trans-1,3-Dichloropropene	ug/l	ND 0.16	ND 0.16	ND 0.64	ND 0.16	ND 0.16	ND 0.64	ND 1.6	ND 1.6
Trichloroethene (TCE)	ug/l	4.9	3.1	8.5	0.81	ND 0.10	170	340	320
Trichlorofluoromethane (CFC 11)	ug/l	ND 0.13	ND 0.13	ND 0.52	ND 0.13	ND 0.13	ND 0.52	ND 1.3	ND 1.3
Vinyl Acetate	ug/l	ND 0.19	ND 0.19	ND 0.76	ND 0.19	ND 0.19	ND 0.76	ND 1.9	ND 1.9
Vinyl Chloride	ug/l	ND 0.18	ND 0.18	4.9	ND 0.18	ND 0.18	ND 0.72	ND 1.8	ND 1.8
Xylenes, Total	ug/l	ND 0.27	ND 0.27	ND 1.1	ND 0.27	ND 0.27	ND 1.1	ND 2.7	ND 2.7

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S005B3	S006A	S007A	S024A	S024B1	S025A	S025B1	S025B1
Date Sampled		11/05/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021
Analysis Date		11/18/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/15/2021	11/14/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 0.10	ND 0.10	ND 2.0	ND 0.10	ND 0.20	ND 1.0	ND 10	ND 5.0
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.10	ND 0.10	ND 2.0	0.11 J	ND 0.20	ND 1.0	ND 10	ND 5.0
1,1,2,2-Tetrachloroethane	ug/l	ND 0.11	ND 0.11	ND 2.2	ND 0.11	ND 0.22	ND 1.1	ND 11	ND 5.5
1,1,2-Trichloroethane	ug/l	ND 0.12	ND 0.12	ND 2.4	ND 0.12	ND 0.24	ND 1.2	ND 12	ND 6.0
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.10	0.6	ND 2.0	0.14 J	0.20 J	2.6 J	ND 10	ND 5.0
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.13	ND 0.13	ND 2.6	ND 0.13	0.39 J	ND 1.3	ND 13	ND 6.5
1,1-Dichloropropene	ug/l	ND 0.12	ND 0.12	ND 2.4	ND 0.12	ND 0.24	ND 1.2	ND 12	ND 6.0
1,2,3-Trichlorobenzene	ug/l	ND 0.40	ND 0.40	ND 8.0	ND 0.40	ND 0.80	ND 4.0	ND 40	ND 20
1,2,3-Trichloropropane	ug/l	ND 0.13	ND 0.13	ND 2.6	ND 0.13	ND 0.26	ND 1.3	ND 13	ND 6.5
1,2,4-Trichlorobenzene	ug/l	ND 0.25	ND 0.25	ND 5.0	ND 0.25	ND 0.50	ND 2.5	ND 25	ND 13
1,2,4-Trimethylbenzene	ug/l	ND 0.32	ND 0.32	ND 6.4	ND 0.32	ND 0.64	ND 3.2	ND 32	ND 16
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 0.20	ND 0.20	ND 4.0	ND 0.20	ND 0.40	ND 2.0	ND 20	ND 10
1,2-Dibromoethane (EDB)	ug/l	ND 0.12	ND 0.12	ND 2.4	ND 0.12	ND 0.24	ND 1.2	ND 12	ND 6.0
1,2-Dichlorobenzene	ug/l	ND 0.097	24	24	0.15 J	ND 0.19	ND 0.97	ND 9.7	ND 4.9
1,2-Dichloroethane	ug/l	ND 0.14	ND 0.14	ND 2.8	ND 0.14	ND 0.28	ND 1.4	ND 14	ND 7.0
1,2-Dichloropropane	ug/l	ND 0.15	ND 0.15	ND 3.0	ND 0.15	ND 0.30	ND 1.5	ND 15	ND 7.5
1,3,5-Trimethylbenzene	ug/l	ND 0.16	ND 0.16	ND 3.2	ND 0.16	ND 0.32	ND 1.6	ND 16	ND 8.0
1,3-Dichlorobenzene	ug/l	ND 0.086	0.23 J	ND 1.7	ND 0.086	ND 0.17	ND 0.86	ND 8.6	ND 4.3
1,3-Dichloropropane	ug/l	ND 0.10	ND 0.10	ND 2.0	ND 0.10	ND 0.20	ND 1.0	ND 10	ND 5.0
1,4-Dichlorobenzene	ug/l	ND 0.083	1.7	ND 1.7	ND 0.083	ND 0.17	ND 0.83	ND 8.3	ND 4.2
2,2-Dichloropropane	ug/l	ND 0.46	ND 0.46	ND 9.2	ND 0.46	ND 0.92	ND 4.6	ND 46	ND 23
2-Butanone (MEK)	ug/l	ND 0.33	ND 0.33	ND 6.6	ND 0.33	ND 0.66	ND 3.3	ND 33	ND 17
2-Chlorotoluene	ug/l	ND 0.11	ND 0.11	ND 2.2	ND 0.11	ND 0.22	ND 1.1	ND 11	ND 5.5
2-Hexanone	ug/l	ND 0.17	ND 0.17	ND 3.4	ND 0.17	ND 0.34	ND 1.7	ND 17	ND 8.5
4-Chlorotoluene	ug/l	ND 0.10	ND 0.10	ND 2.0	ND 0.10	ND 0.20	ND 1.0	ND 10	ND 5.0

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S005B3	S006A	S007A	S024A	S024B1	S025A	S025B1	S025B1
Date Sampled		11/05/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021
Analysis Date		11/18/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/15/2021	11/14/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 0.15	ND 0.15	ND 3.0	ND 0.15	ND 0.30	ND 1.5	ND 15	ND 7.5
Acetone	ug/l	ND 3.8	ND 3.8	ND 76	ND 3.8	ND 7.6	ND 38	ND 380	ND 190
Benzene	ug/l	ND 0.080	ND 0.080	ND 1.6	ND 0.080	ND 0.16	ND 0.80	ND 8.0	ND 4.0
Bromobenzene	ug/l	ND 0.091	ND 0.091	ND 1.8	ND 0.091	ND 0.18	ND 0.91	ND 9.1	ND 4.6
Bromochloromethane	ug/l	ND 0.18	ND 0.18	ND 3.6	ND 0.18	ND 0.36	ND 1.8	ND 18	ND 9.0
Bromodichloromethane	ug/l	ND 0.14	ND 0.14	ND 2.8	ND 0.14	ND 0.28	ND 1.4	ND 14	ND 7.0
Bromoform	ug/l	ND 0.19	ND 0.19	ND 3.8	ND 0.19	ND 0.38	ND 1.9	ND 19	ND 9.5
Bromomethane	ug/l	ND 0.21	ND 0.21	ND 4.2	ND 0.21	ND 0.42	ND 2.1	ND 21	ND 11
Carbon Disulfide	ug/l	ND 0.36	ND 0.36	ND 7.2	ND 0.36	ND 0.72	ND 3.6	ND 36	ND 18
Carbon Tetrachloride	ug/l	ND 0.12	ND 0.12	ND 2.4	ND 0.12	ND 0.24	ND 1.2	ND 12	ND 6.0
Chlorobenzene	ug/l	ND 0.070	16	ND 1.4	ND 0.070	ND 0.14	ND 0.70	ND 7.0	ND 3.5
Chloroethane	ug/l	ND 0.24	ND 0.24	ND 4.8	ND 0.24	ND 0.48	ND 2.4	ND 24	ND 12
Chloroform	ug/l	ND 0.12	ND 0.12	ND 2.4	ND 0.12	ND 0.24	ND 1.2	ND 12	ND 6.0
Chloromethane	ug/l	ND 0.26	ND 0.26	ND 5.2	ND 0.26	ND 0.52	ND 2.6	ND 26	ND 13
cis-1,2-Dichloroethene	ug/l	ND 0.18	36	480	0.82	3.7	540	1900	1500
cis-1,3-Dichloropropene	ug/l	ND 0.15	ND 0.15	ND 3.0	ND 0.15	ND 0.30	ND 1.5	ND 15	ND 7.5
Dibromochloromethane	ug/l	ND 0.16	ND 0.16	ND 3.2	ND 0.16	ND 0.32	ND 1.6	ND 16	ND 8.0
Dibromomethane	ug/l	ND 0.17	ND 0.17	ND 3.4	ND 0.17	ND 0.34	ND 1.7	ND 17	ND 8.5
Dichlorodifluoromethane (CFC 12)	ug/l	ND 0.32	ND 0.32	ND 6.4	ND 0.32	ND 0.64	ND 3.2	ND 32	ND 16
Ethylbenzene	ug/l	ND 0.084	ND 0.084	ND 1.7	ND 0.084	ND 0.17	ND 0.84	ND 8.4	ND 4.2
Hexachlorobutadiene	ug/l	ND 0.23	ND 0.23	ND 4.6	ND 0.23	ND 0.46	ND 2.3	ND 23	ND 12
Isopropylbenzene	ug/l	ND 0.11	ND 0.11	ND 2.2	ND 0.11	ND 0.22	ND 1.1	ND 11	ND 5.5
Methyl Isobutyl Ketone	ug/l	ND 0.11	ND 0.11	ND 2.2	ND 0.11	ND 0.22	ND 1.1	ND 11	ND 5.5
Methylene Chloride	ug/l	ND 0.16	ND 0.16	ND 3.2	ND 0.16	ND 0.32	ND 1.6	ND 16	ND 8.0
MTBE	ug/l	ND 0.12	ND 0.12	ND 2.4	ND 0.12	ND 0.24	ND 1.2	ND 12	ND 6.0

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA

Location ID		S005B3	S006A	S007A	S024A	S024B1	S025A	S025B1	S025B1
Date Sampled		11/05/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021
Analysis Date		11/18/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/15/2021	11/14/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	FD	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 0.18	ND 0.18	ND 3.6	ND 0.18	ND 0.36	ND 1.8	ND 18	ND 9.0
n-Propylbenzene	ug/l	ND 0.11	ND 0.11	ND 2.2	ND 0.11	ND 0.22	ND 1.1	ND 11	ND 5.5
Naphthalene	ug/l	ND 0.48	ND 0.48	ND 9.6	ND 0.48	ND 0.96	ND 4.8	ND 48	ND 24
sec-Butylbenzene	ug/l	ND 0.14	ND 0.14	ND 2.8	ND 0.14	ND 0.28	ND 1.4	ND 14	ND 7.0
Styrene	ug/l	ND 0.13	ND 0.13	ND 2.6	ND 0.13	ND 0.26	ND 1.3	ND 13	ND 6.5
tert-Butylbenzene	ug/l	ND 0.13	ND 0.13	ND 2.6	ND 0.13	ND 0.26	ND 1.3	ND 13	ND 6.5
Tetrachloroethene (PCE)	ug/l	ND 0.10	ND 0.10	ND 2.0	0.13 J	ND 0.20	ND 1.0	ND 10	ND 5.0
Toluene	ug/l	ND 0.095	ND 0.095	ND 1.9	ND 0.095	ND 0.19	ND 0.95	ND 9.5	ND 4.8
trans-1,2-Dichloroethene	ug/l	ND 0.11	1.5	23	ND 0.11	ND 0.22	4.6 J	30 J	15 J
trans-1,3-Dichloropropene	ug/l	ND 0.16	ND 0.16	ND 3.2	ND 0.16	ND 0.32	ND 1.6	ND 16	ND 8.0
Trichloroethene (TCE)	ug/l	0.19 J	ND 0.10	20	15	81	22	44 J	39
Trichlorofluoromethane (CFC 11)	ug/l	ND 0.13	ND 0.13	ND 2.6	ND 0.13	ND 0.26	ND 1.3	ND 13	ND 6.5
Vinyl Acetate	ug/l	ND 0.19	ND 0.19	ND 3.8	ND 0.19	ND 0.38	ND 1.9	ND 19	ND 9.5
Vinyl Chloride	ug/l	ND 0.18	73	ND 3.6	ND 0.18	ND 0.36	160	22 J	25
Xylenes, Total	ug/l	ND 0.27	ND 0.27	ND 5.4	ND 0.27	ND 0.54	ND 2.7	ND 27	ND 14

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S025B4	S026A	S026B1	S027A	S027B1	S028A	S028B1	S033A
Date Sampled		11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/02/2021	11/02/2021	11/03/2021
Analysis Date		11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/15/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.50	ND 0.40	ND 0.10
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.10	ND 0.10	ND 0.10	0.27 J	ND 0.10	ND 0.50	ND 0.40	ND 0.10
1,1,2,2-Tetrachloroethane	ug/l	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.55	ND 0.44	ND 0.11
1,1,2-Trichloroethane	ug/l	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.60	ND 0.48	ND 0.12
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.10	ND 0.10	ND 0.10	0.17 J	0.97	ND 0.50	1.7 J	ND 0.10
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.13	ND 0.13	ND 0.13	0.15 J	1	ND 0.65	1.3 J	ND 0.13
1,1-Dichloropropene	ug/l	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.60	ND 0.48	ND 0.12
1,2,3-Trichlorobenzene	ug/l	ND 0.40	ND 0.40	ND 0.40	ND 0.40	ND 0.40	ND 2.0	ND 1.6	ND 0.40
1,2,3-Trichloropropane	ug/l	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.65	ND 0.52	ND 0.13
1,2,4-Trichlorobenzene	ug/l	ND 0.25	ND 0.25	ND 0.25	ND 0.25	0.68 J	ND 1.3	ND 1.0	ND 0.25
1,2,4-Trimethylbenzene	ug/l	ND 0.32	ND 0.32	ND 0.32	ND 0.32	ND 0.32	ND 1.6	ND 1.3	ND 0.32
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 0.20	ND 0.20	ND 0.20	ND 0.20	ND 0.20	ND 1.0	ND 0.80	ND 0.20
1,2-Dibromoethane (EDB)	ug/l	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.60	ND 0.48	ND 0.12
1,2-Dichlorobenzene	ug/l	ND 0.097	ND 0.097	ND 0.097	ND 0.097	1.5	ND 0.49	ND 0.39	ND 0.097
1,2-Dichloroethane	ug/l	ND 0.14	ND 0.14	ND 0.14	ND 0.14	ND 0.14	ND 0.70	ND 0.56	ND 0.14
1,2-Dichloropropane	ug/l	ND 0.15	ND 0.15	ND 0.15	ND 0.15	ND 0.15	ND 0.75	ND 0.60	ND 0.15
1,3,5-Trimethylbenzene	ug/l	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.80	ND 0.64	ND 0.16
1,3-Dichlorobenzene	ug/l	ND 0.086	ND 0.086	ND 0.086	ND 0.086	ND 0.086	ND 0.43	ND 0.34	ND 0.086
1,3-Dichloropropane	ug/l	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.50	ND 0.40	ND 0.10
1,4-Dichlorobenzene	ug/l	ND 0.083	ND 0.083	ND 0.083	ND 0.083	ND 0.083	ND 0.42	ND 0.33	ND 0.083
2,2-Dichloropropane	ug/l	ND 0.46	ND 0.46	ND 0.46	ND 0.46	ND 0.46	ND 2.3	ND 1.8	ND 0.46
2-Butanone (MEK)	ug/l	ND 0.33	ND 0.33	ND 0.33	ND 0.33	ND 0.33	ND 1.7	ND 1.3	ND 0.33
2-Chlorotoluene	ug/l	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.55	ND 0.44	ND 0.11
2-Hexanone	ug/l	ND 0.17	ND 0.17	ND 0.17	ND 0.17	ND 0.17	ND 0.85	ND 0.68	ND 0.17
4-Chlorotoluene	ug/l	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.50	ND 0.40	ND 0.10

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S025B4	S026A	S026B1	S027A	S027B1	S028A	S028B1	S033A
Date Sampled		11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/02/2021	11/02/2021	11/03/2021
Analysis Date		11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/15/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 0.15	ND 0.15	ND 0.15	ND 0.15	ND 0.15	ND 0.75	ND 0.60	ND 0.15
Acetone	ug/l	ND 3.8	ND 3.8	ND 3.8	ND 3.8	ND 3.8	ND 19	ND 15	ND 3.8
Benzene	ug/l	0.17 J	ND 0.080	ND 0.080	ND 0.080	ND 0.080	ND 0.40	ND 0.32	ND 0.080
Bromobenzene	ug/l	ND 0.091	ND 0.091	ND 0.091	ND 0.091	ND 0.091	ND 0.46	ND 0.36	ND 0.091
Bromochloromethane	ug/l	ND 0.18	ND 0.18	ND 0.18	ND 0.18	ND 0.18	ND 0.90	ND 0.72	ND 0.18
Bromodichloromethane	ug/l	ND 0.14	ND 0.14	ND 0.14	ND 0.14	ND 0.14	ND 0.70	ND 0.56	ND 0.14
Bromoform	ug/l	ND 0.19	ND 0.19	ND 0.19	ND 0.19	ND 0.19	ND 0.95	ND 0.76	ND 0.19
Bromomethane	ug/l	ND 0.21	ND 0.21	ND 0.21	ND 0.21	ND 0.21	ND 1.1	ND 0.84	ND 0.21
Carbon Disulfide	ug/l	ND 0.36	ND 0.36	ND 0.36	ND 0.36	ND 0.36	ND 1.8	ND 1.4	ND 0.36
Carbon Tetrachloride	ug/l	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.60	ND 0.48	ND 0.12
Chlorobenzene	ug/l	ND 0.070	ND 0.070	ND 0.070	ND 0.070	ND 0.070	ND 0.35	ND 0.28	ND 0.070
Chloroethane	ug/l	ND 0.24	ND 0.24	ND 0.24	ND 0.24	ND 0.24	ND 1.2	ND 0.96	ND 0.24
Chloroform	ug/l	ND 0.12	0.24 J	ND 0.12	0.21 J	ND 0.12	ND 0.60	ND 0.48	ND 0.12
Chloromethane	ug/l	ND 0.26	ND 0.26	ND 0.26	ND 0.26	ND 0.26	ND 1.3	ND 1.0	ND 0.26
cis-1,2-Dichloroethene	ug/l	ND 0.18	ND 0.18	2.5	5.1	68	160	180	0.46 J
cis-1,3-Dichloropropene	ug/l	ND 0.15	ND 0.15	ND 0.15	ND 0.15	ND 0.15	ND 0.75	ND 0.60	ND 0.15
Dibromochloromethane	ug/l	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.80	ND 0.64	ND 0.16
Dibromomethane	ug/l	ND 0.17	ND 0.17	ND 0.17	ND 0.17	ND 0.17	ND 0.85	ND 0.68	ND 0.17
Dichlorodifluoromethane (CFC 12)	ug/l	ND 0.32	ND 0.32	ND 0.32	ND 0.32	ND 0.32	ND 1.6	ND 1.3	ND 0.32
Ethylbenzene	ug/l	ND 0.084	ND 0.084	ND 0.084	ND 0.084	ND 0.084	ND 0.42	ND 0.34	ND 0.084
Hexachlorobutadiene	ug/l	ND 0.23	ND 0.23	ND 0.23	ND 0.23	ND 0.23	ND 1.2	ND 0.92	ND 0.23
Isopropylbenzene	ug/l	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.55	ND 0.44	ND 0.11
Methyl Isobutyl Ketone	ug/l	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.55	ND 0.44	ND 0.11
Methylene Chloride	ug/l	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.80	ND 0.64	ND 0.16
MTBE	ug/l	ND 0.12	ND 0.12	ND 0.12	ND 0.12	0.64	ND 0.60	ND 0.48	ND 0.12

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S025B4	S026A	S026B1	S027A	S027B1	S028A	S028B1	S033A
Date Sampled		11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/03/2021	11/02/2021	11/02/2021	11/03/2021
Analysis Date		11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/14/2021	11/15/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 0.18	ND 0.18	ND 0.18	ND 0.18	ND 0.18	ND 0.90	ND 0.72	ND 0.18
n-Propylbenzene	ug/l	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.11	ND 0.55	ND 0.44	ND 0.11
Naphthalene	ug/l	ND 0.48	ND 0.48	ND 0.48	ND 0.48	ND 0.48	ND 2.4	ND 1.9	ND 0.48
sec-Butylbenzene	ug/l	ND 0.14	ND 0.14	ND 0.14	ND 0.14	ND 0.14	ND 0.70	ND 0.56	ND 0.14
Styrene	ug/l	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.65	ND 0.52	ND 0.13
tert-Butylbenzene	ug/l	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.65	ND 0.52	ND 0.13
Tetrachloroethene (PCE)	ug/l	ND 0.10	ND 0.10	ND 0.10	1.6	0.33 J	ND 0.50	ND 0.40	ND 0.10
Toluene	ug/l	ND 0.095	ND 0.095	ND 0.095	ND 0.095	ND 0.095	ND 0.48	ND 0.38	ND 0.095
trans-1,2-Dichloroethene	ug/l	ND 0.11	ND 0.11	ND 0.11	ND 0.11	5.7	ND 0.55	0.80 J	ND 0.11
trans-1,3-Dichloropropene	ug/l	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.16	ND 0.80	ND 0.64	ND 0.16
Trichloroethene (TCE)	ug/l	ND 0.10	0.36 J	0.41 J	40	40	3	41	13
Trichlorofluoromethane (CFC 11)	ug/l	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.13	ND 0.65	ND 0.52	ND 0.13
Vinyl Acetate	ug/l	ND 0.19	ND 0.19	ND 0.19	ND 0.19	ND 0.19	ND 0.95	ND 0.76	ND 0.19
Vinyl Chloride	ug/l	ND 0.18	ND 0.18	ND 0.18	ND 0.18	ND 0.18	ND 0.90	ND 0.72	ND 0.18
Xylenes, Total	ug/l	ND 0.27	ND 0.27	ND 0.27	ND 0.27	ND 0.27	ND 1.4	ND 1.1	ND 0.27

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S043A	S048A	S048B1	S048B3	S049A	S049B1	S065B1	S079A
Date Sampled		11/03/2021	11/04/2021	11/04/2021	11/04/2021	11/02/2021	11/02/2021	11/03/2021	11/03/2021
Analysis Date		11/15/2021	11/16/2021	11/16/2021	11/16/2021	11/12/2021	11/12/2021	11/15/2021	11/14/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 2.0	ND 0.50	ND 1.0	ND 0.10	ND 2.0	ND 0.10	ND 2.0	ND 0.10
1,1,1-Trichloroethane (TCA)	ug/l	ND 2.0	ND 0.50	ND 1.0	ND 0.10	ND 2.0	ND 0.10	ND 2.0	ND 0.10
1,1,2,2-Tetrachloroethane	ug/l	ND 2.2	ND 0.55	ND 1.1	ND 0.11	ND 2.2	ND 0.11	ND 2.2	ND 0.11
1,1,2-Trichloroethane	ug/l	ND 2.4	ND 0.60	ND 1.2	ND 0.12	ND 2.4	ND 0.12	ND 2.4	ND 0.12
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 2.0	ND 0.50	ND 1.0	ND 0.10	3.3 J	ND 0.10	ND 2.0	0.12 J
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 2.6	ND 0.65	ND 1.3	ND 0.13	ND 2.6	ND 0.13	ND 2.6	ND 0.13
1,1-Dichloropropene	ug/l	ND 2.4	ND 0.60	ND 1.2	ND 0.12	ND 2.4	ND 0.12	ND 2.4	ND 0.12
1,2,3-Trichlorobenzene	ug/l	ND 8.0	ND 2.0	ND 4.0	ND 0.40	ND 8.0	ND 0.40	ND 8.0	ND 0.40
1,2,3-Trichloropropane	ug/l	ND 2.6	ND 0.65	ND 1.3	ND 0.13	ND 2.6	ND 0.13	ND 2.6	ND 0.13
1,2,4-Trichlorobenzene	ug/l	ND 5.0	ND 1.3	ND 2.5	ND 0.25	ND 5.0	ND 0.25	ND 5.0	ND 0.25
1,2,4-Trimethylbenzene	ug/l	ND 6.4	ND 1.6	ND 3.2	ND 0.32	ND 6.4	ND 0.32	ND 6.4	ND 0.32
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 4.0	ND 1.0	ND 2.0	ND 0.20	ND 4.0	ND 0.20	ND 4.0	ND 0.20
1,2-Dibromoethane (EDB)	ug/l	ND 2.4	ND 0.60	ND 1.2	ND 0.12	ND 2.4	ND 0.12	ND 2.4	ND 0.12
1,2-Dichlorobenzene	ug/l	ND 1.9	ND 0.49	ND 0.97	ND 0.097	ND 1.9	ND 0.097	2.8 J	ND 0.097
1,2-Dichloroethane	ug/l	ND 2.8	ND 0.70	ND 1.4	ND 0.14	ND 2.8	ND 0.14	ND 2.8	ND 0.14
1,2-Dichloropropane	ug/l	ND 3.0	ND 0.75	ND 1.5	ND 0.15	ND 3.0	ND 0.15	ND 3.0	ND 0.15
1,3,5-Trimethylbenzene	ug/l	ND 3.2	ND 0.80	ND 1.6	ND 0.16	ND 3.2	ND 0.16	ND 3.2	ND 0.16
1,3-Dichlorobenzene	ug/l	ND 1.7	ND 0.43	ND 0.86	ND 0.086	ND 1.7	ND 0.086	ND 1.7	ND 0.086
1,3-Dichloropropane	ug/l	ND 2.0	ND 0.50	ND 1.0	ND 0.10	ND 2.0	ND 0.10	ND 2.0	ND 0.10
1,4-Dichlorobenzene	ug/l	ND 1.7	ND 0.42	ND 0.83	ND 0.083	ND 1.7	ND 0.083	ND 1.7	ND 0.083
2,2-Dichloropropane	ug/l	ND 9.2	ND 2.3	ND 4.6	ND 0.46	ND 9.2	ND 0.46	ND 9.2	ND 0.46
2-Butanone (MEK)	ug/l	ND 6.6	ND 1.7	ND 3.3	ND 0.33	ND 6.6	ND 0.33	ND 6.6	ND 0.33
2-Chlorotoluene	ug/l	ND 2.2	ND 0.55	ND 1.1	ND 0.11	ND 2.2	ND 0.11	ND 2.2	ND 0.11
2-Hexanone	ug/l	ND 3.4	ND 0.85	ND 1.7	ND 0.17	ND 3.4	ND 0.17	ND 3.4	ND 0.17
4-Chlorotoluene	ug/l	ND 2.0	ND 0.50	ND 1.0	ND 0.10	ND 2.0	ND 0.10	ND 2.0	ND 0.10

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S043A	S048A	S048B1	S048B3	S049A	S049B1	S065B1	S079A
Date Sampled		11/03/2021	11/04/2021	11/04/2021	11/04/2021	11/02/2021	11/02/2021	11/03/2021	11/03/2021
Analysis Date		11/15/2021	11/16/2021	11/16/2021	11/16/2021	11/12/2021	11/12/2021	11/15/2021	11/14/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 3.0	ND 0.75	ND 1.5	ND 0.15	ND 3.0	ND 0.15	ND 3.0	ND 0.15
Acetone	ug/l	ND 76	ND 19	ND 38	ND 3.8	ND 76	ND 3.8	ND 76	ND 3.8
Benzene	ug/l	ND 1.6	ND 0.40	ND 0.80	ND 0.080	ND 1.6	ND 0.080	ND 1.6	ND 0.080
Bromobenzene	ug/l	ND 1.8	ND 0.46	ND 0.91	ND 0.091	ND 1.8	ND 0.091	ND 1.8	ND 0.091
Bromochloromethane	ug/l	ND 3.6	ND 0.90	ND 1.8	ND 0.18	ND 3.6	ND 0.18	ND 3.6	ND 0.18
Bromodichloromethane	ug/l	ND 2.8	ND 0.70	ND 1.4	ND 0.14	ND 2.8	ND 0.14	ND 2.8	ND 0.14
Bromoform	ug/l	ND 3.8	ND 0.95	ND 1.9	ND 0.19	ND 3.8	ND 0.19	ND 3.8	ND 0.19
Bromomethane	ug/l	ND 4.2	ND 1.1	ND 2.1	ND 0.21	ND 4.2	ND 0.21	ND 4.2	ND 0.21
Carbon Disulfide	ug/l	ND 7.2	ND 1.8	ND 3.6	ND 0.36	ND 7.2	ND 0.36	ND 7.2	ND 0.36
Carbon Tetrachloride	ug/l	ND 2.4	ND 0.60	ND 1.2	ND 0.12	ND 2.4	ND 0.12	ND 2.4	ND 0.12
Chlorobenzene	ug/l	ND 1.4	ND 0.35	ND 0.70	ND 0.070	ND 1.4	ND 0.070	ND 1.4	ND 0.070
Chloroethane	ug/l	ND 4.8	ND 1.2	ND 2.4	ND 0.24	8.2 J	ND 0.24	ND 4.8	ND 0.24
Chloroform	ug/l	ND 2.4	ND 0.60	ND 1.2	ND 0.12	ND 2.4	ND 0.12	ND 2.4	0.58 J
Chloromethane	ug/l	ND 5.2	ND 1.3	ND 2.6	ND 0.26	ND 5.2	ND 0.26	ND 5.2	ND 0.26
cis-1,2-Dichloroethene	ug/l	660	290	150	ND 0.18	870	0.24 J	9.5 J	7.5
cis-1,3-Dichloropropene	ug/l	ND 3.0	ND 0.75	ND 1.5	ND 0.15	ND 3.0	ND 0.15	ND 3.0	ND 0.15
Dibromochloromethane	ug/l	ND 3.2	ND 0.80	ND 1.6	ND 0.16	ND 3.2	ND 0.16	ND 3.2	ND 0.16
Dibromomethane	ug/l	ND 3.4	ND 0.85	ND 1.7	ND 0.17	ND 3.4	ND 0.17	ND 3.4	ND 0.17
Dichlorodifluoromethane (CFC 12)	ug/l	ND 6.4	ND 1.6	ND 3.2	ND 0.32	ND 6.4	ND 0.32	ND 6.4	ND 0.32
Ethylbenzene	ug/l	ND 1.7	ND 0.42	ND 0.84	ND 0.084	ND 1.7	ND 0.084	ND 1.7	ND 0.084
Hexachlorobutadiene	ug/l	ND 4.6	ND 1.2	ND 2.3	ND 0.23	ND 4.6	ND 0.23	ND 4.6	ND 0.23
Isopropylbenzene	ug/l	ND 2.2	ND 0.55	ND 1.1	ND 0.11	ND 2.2	ND 0.11	ND 2.2	ND 0.11
Methyl Isobutyl Ketone	ug/l	ND 2.2	ND 0.55	ND 1.1	ND 0.11	ND 2.2	ND 0.11	ND 2.2	ND 0.11
Methylene Chloride	ug/l	ND 3.2	ND 0.80	ND 1.6	ND 0.16	ND 3.2	ND 0.16	ND 3.2	ND 0.16
MTBE	ug/l	ND 2.4	ND 0.60	ND 1.2	ND 0.12	ND 2.4	ND 0.12	ND 2.4	ND 0.12

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

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**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S043A	S048A	S048B1	S048B3	S049A	S049B1	S065B1	S079A
Date Sampled		11/03/2021	11/04/2021	11/04/2021	11/04/2021	11/02/2021	11/02/2021	11/03/2021	11/03/2021
Analysis Date		11/15/2021	11/16/2021	11/16/2021	11/16/2021	11/12/2021	11/12/2021	11/15/2021	11/14/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 3.6	ND 0.90	ND 1.8	ND 0.18	ND 3.6	ND 0.18	ND 3.6	ND 0.18
n-Propylbenzene	ug/l	ND 2.2	ND 0.55	ND 1.1	ND 0.11	ND 2.2	ND 0.11	ND 2.2	ND 0.11
Naphthalene	ug/l	ND 9.6	ND 2.4	ND 4.8	ND 0.48	ND 9.6	ND 0.48	ND 9.6	ND 0.48
sec-Butylbenzene	ug/l	ND 2.8	ND 0.70	ND 1.4	ND 0.14	ND 2.8	ND 0.14	ND 2.8	ND 0.14
Styrene	ug/l	ND 2.6	ND 0.65	ND 1.3	ND 0.13	ND 2.6	ND 0.13	ND 2.6	ND 0.13
tert-Butylbenzene	ug/l	ND 2.6	ND 0.65	ND 1.3	ND 0.13	ND 2.6	ND 0.13	ND 2.6	ND 0.13
Tetrachloroethene (PCE)	ug/l	ND 2.0	2.3 J	ND 1.0	ND 0.10	ND 2.0	ND 0.10	ND 2.0	0.21 J
Toluene	ug/l	ND 1.9	ND 0.48	ND 0.95	ND 0.095	ND 1.9	ND 0.095	ND 1.9	ND 0.095
trans-1,2-Dichloroethene	ug/l	ND 2.2	1.8 J	ND 1.1	ND 0.11	6.3 J	ND 0.11	ND 2.2	0.12 J
trans-1,3-Dichloropropene	ug/l	ND 3.2	ND 0.80	ND 1.6	ND 0.16	ND 3.2	ND 0.16	ND 3.2	ND 0.16
Trichloroethene (TCE)	ug/l	9.7 J	29	280	ND 0.10	11	15	820	36
Trichlorofluoromethane (CFC 11)	ug/l	ND 2.6	ND 0.65	ND 1.3	ND 0.13	ND 2.6	ND 0.13	ND 2.6	ND 0.13
Vinyl Acetate	ug/l	ND 3.8	ND 0.95	ND 1.9	ND 0.19	ND 3.8	ND 0.19	ND 3.8	ND 0.19
Vinyl Chloride	ug/l	17	ND 0.90	ND 1.8	ND 0.18	46	ND 0.18	ND 3.6	ND 0.18
Xylenes, Total	ug/l	ND 5.4	ND 1.4	ND 2.7	ND 0.27	ND 5.4	ND 0.27	ND 5.4	ND 0.27

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S080A	S080B1	S081A	S082A	S083A	S088A	S100B4	S101B3
Date Sampled		11/03/2021	11/03/2021	11/02/2021	11/03/2021	11/03/2021	11/03/2021	11/05/2021	11/05/2021
Analysis Date		11/15/2021	11/15/2021	11/12/2021	11/15/2021	11/14/2021	11/15/2021	11/18/2021	11/19/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 5.0	ND 2.0	ND 0.10	ND 0.20	ND 0.10	ND 2.0	ND 0.10	ND 0.10
1,1,1-Trichloroethane (TCA)	ug/l	ND 5.0	ND 2.0	ND 0.10	ND 0.20	ND 0.10	ND 2.0	ND 0.10	ND 0.10
1,1,2,2-Tetrachloroethane	ug/l	ND 5.5	ND 2.2	ND 0.11	ND 0.22	ND 0.11	ND 2.2	ND 0.11	ND 0.11
1,1,2-Trichloroethane	ug/l	ND 6.0	ND 2.4	ND 0.12	ND 0.24	ND 0.12	ND 2.4	ND 0.12	ND 0.12
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 5.0	ND 2.0	ND 0.10	ND 0.20	0.23 J	ND 2.0	ND 0.10	ND 0.10
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 6.5	ND 2.6	ND 0.13	ND 0.26	0.27 J	ND 2.6	ND 0.13	ND 0.13
1,1-Dichloropropene	ug/l	ND 6.0	ND 2.4	ND 0.12	ND 0.24	ND 0.12	ND 2.4	ND 0.12	ND 0.12
1,2,3-Trichlorobenzene	ug/l	ND 20	ND 8.0	ND 0.40	ND 0.80	ND 0.40	ND 8.0	ND 0.40	ND 0.40
1,2,3-Trichloropropane	ug/l	ND 6.5	ND 2.6	ND 0.13	ND 0.26	ND 0.13	ND 2.6	ND 0.13	ND 0.13
1,2,4-Trichlorobenzene	ug/l	ND 13	ND 5.0	ND 0.25	ND 0.50	ND 0.25	ND 5.0	ND 0.25	ND 0.25
1,2,4-Trimethylbenzene	ug/l	ND 16	ND 6.4	ND 0.32	ND 0.64	ND 0.32	ND 6.4	ND 0.32	ND 0.32
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 10	ND 4.0	ND 0.20	ND 0.40	ND 0.20	ND 4.0	ND 0.20	ND 0.20
1,2-Dibromoethane (EDB)	ug/l	ND 6.0	ND 2.4	ND 0.12	ND 0.24	ND 0.12	ND 2.4	ND 0.12	ND 0.12
1,2-Dichlorobenzene	ug/l	ND 4.9	ND 1.9	ND 0.097	0.29 J	0.77	ND 1.9	ND 0.097	ND 0.097
1,2-Dichloroethane	ug/l	ND 7.0	ND 2.8	ND 0.14	ND 0.28	ND 0.14	ND 2.8	ND 0.14	ND 0.14
1,2-Dichloropropane	ug/l	ND 7.5	ND 3.0	ND 0.15	ND 0.30	ND 0.15	ND 3.0	ND 0.15	ND 0.15
1,3,5-Trimethylbenzene	ug/l	ND 8.0	ND 3.2	ND 0.16	ND 0.32	ND 0.16	ND 3.2	ND 0.16	ND 0.16
1,3-Dichlorobenzene	ug/l	ND 4.3	ND 1.7	ND 0.086	ND 0.17	ND 0.086	ND 1.7	ND 0.086	ND 0.086
1,3-Dichloropropane	ug/l	ND 5.0	ND 2.0	ND 0.10	ND 0.20	ND 0.10	ND 2.0	ND 0.10	ND 0.10
1,4-Dichlorobenzene	ug/l	ND 4.2	ND 1.7	ND 0.083	ND 0.17	ND 0.083	ND 1.7	ND 0.083	ND 0.083
2,2-Dichloropropane	ug/l	ND 23	ND 9.2	ND 0.46	ND 0.92	ND 0.46	ND 9.2	ND 0.46	ND 0.46
2-Butanone (MEK)	ug/l	ND 17	ND 6.6	ND 0.33	ND 0.66	ND 0.33	ND 6.6	ND 0.33	ND 0.33
2-Chlorotoluene	ug/l	ND 5.5	ND 2.2	ND 0.11	ND 0.22	ND 0.11	ND 2.2	ND 0.11	ND 0.11
2-Hexanone	ug/l	ND 8.5	ND 3.4	ND 0.17	ND 0.34	ND 0.17	ND 3.4	ND 0.17	ND 0.17
4-Chlorotoluene	ug/l	ND 5.0	ND 2.0	ND 0.10	ND 0.20	ND 0.10	ND 2.0	ND 0.10	ND 0.10

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S080A	S080B1	S081A	S082A	S083A	S088A	S100B4	S101B3
Date Sampled		11/03/2021	11/03/2021	11/02/2021	11/03/2021	11/03/2021	11/03/2021	11/05/2021	11/05/2021
Analysis Date		11/15/2021	11/15/2021	11/12/2021	11/15/2021	11/14/2021	11/15/2021	11/18/2021	11/19/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 7.5	ND 3.0	ND 0.15	ND 0.30	ND 0.15	ND 3.0	ND 0.15	ND 0.15
Acetone	ug/l	ND 190	ND 76	ND 3.8	ND 7.6	ND 3.8	ND 76	ND 3.8	ND 3.8
Benzene	ug/l	ND 4.0	ND 1.6	ND 0.080	ND 0.16	ND 0.080	ND 1.6	ND 0.080	ND 0.080
Bromobenzene	ug/l	ND 4.6	ND 1.8	ND 0.091	ND 0.18	ND 0.091	ND 1.8	ND 0.091	ND 0.091
Bromochloromethane	ug/l	ND 9.0	ND 3.6	ND 0.18	ND 0.36	ND 0.18	ND 3.6	ND 0.18	ND 0.18
Bromodichloromethane	ug/l	ND 7.0	ND 2.8	ND 0.14	ND 0.28	ND 0.14	ND 2.8	ND 0.14	ND 0.14
Bromoform	ug/l	ND 9.5	ND 3.8	ND 0.19	ND 0.38	ND 0.19	ND 3.8	ND 0.19	ND 0.19
Bromomethane	ug/l	ND 11	ND 4.2	ND 0.21	ND 0.42	ND 0.21	ND 4.2	ND 0.21	ND 0.21
Carbon Disulfide	ug/l	ND 18	ND 7.2	ND 0.36	ND 0.72	ND 0.36	ND 7.2	ND 0.36	ND 0.36
Carbon Tetrachloride	ug/l	ND 6.0	ND 2.4	ND 0.12	ND 0.24	ND 0.12	ND 2.4	ND 0.12	ND 0.12
Chlorobenzene	ug/l	ND 3.5	ND 1.4	ND 0.070	ND 0.14	ND 0.070	ND 1.4	ND 0.070	ND 0.070
Chloroethane	ug/l	ND 12	ND 4.8	ND 0.24	ND 0.48	ND 0.24	ND 4.8	ND 0.24	ND 0.24
Chloroform	ug/l	ND 6.0	ND 2.4	ND 0.12	ND 0.24	0.14 J	ND 2.4	ND 0.12	ND 0.12
Chloromethane	ug/l	ND 13	ND 5.2	ND 0.26	ND 0.52	ND 0.26	ND 5.2	ND 0.26	ND 0.26
cis-1,2-Dichloroethene	ug/l	870	4.5 J	20	96	28	610	ND 0.18	ND 0.18
cis-1,3-Dichloropropene	ug/l	ND 7.5	ND 3.0	ND 0.15	ND 0.30	ND 0.15	ND 3.0	ND 0.15	ND 0.15
Dibromochloromethane	ug/l	ND 8.0	ND 3.2	ND 0.16	ND 0.32	ND 0.16	ND 3.2	ND 0.16	ND 0.16
Dibromomethane	ug/l	ND 8.5	ND 3.4	ND 0.17	ND 0.34	ND 0.17	ND 3.4	ND 0.17	ND 0.17
Dichlorodifluoromethane (CFC 12)	ug/l	ND 16	ND 6.4	ND 0.32	ND 0.64	ND 0.32	ND 6.4	ND 0.32	ND 0.32
Ethylbenzene	ug/l	ND 4.2	ND 1.7	ND 0.084	ND 0.17	ND 0.084	ND 1.7	ND 0.084	ND 0.084
Hexachlorobutadiene	ug/l	ND 12	ND 4.6	ND 0.23	ND 0.46	ND 0.23	ND 4.6	ND 0.23	ND 0.23
Isopropylbenzene	ug/l	ND 5.5	ND 2.2	ND 0.11	ND 0.22	ND 0.11	ND 2.2	ND 0.11	ND 0.11
Methyl Isobutyl Ketone	ug/l	ND 5.5	ND 2.2	ND 0.11	ND 0.22	ND 0.11	ND 2.2	ND 0.11	ND 0.11
Methylene Chloride	ug/l	ND 8.0	ND 3.2	ND 0.16	ND 0.32	ND 0.16	ND 3.2	ND 0.16	ND 0.16
MTBE	ug/l	ND 6.0	ND 2.4	ND 0.12	ND 0.24	ND 0.12	ND 2.4	ND 0.12	ND 0.12

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA

Location ID		S080A	S080B1	S081A	S082A	S083A	S088A	S100B4	S101B3
Date Sampled		11/03/2021	11/03/2021	11/02/2021	11/03/2021	11/03/2021	11/03/2021	11/05/2021	11/05/2021
Analysis Date		11/15/2021	11/15/2021	11/12/2021	11/15/2021	11/14/2021	11/15/2021	11/18/2021	11/19/2021
Sample Purpose		REG	REG	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 9.0	ND 3.6	ND 0.18	ND 0.36	ND 0.18	ND 3.6	ND 0.18	ND 0.18
n-Propylbenzene	ug/l	ND 5.5	ND 2.2	ND 0.11	ND 0.22	ND 0.11	ND 2.2	ND 0.11	ND 0.11
Naphthalene	ug/l	ND 24	ND 9.6	ND 0.48	ND 0.96	ND 0.48	ND 9.6	ND 0.48	ND 0.48
sec-Butylbenzene	ug/l	ND 7.0	ND 2.8	ND 0.14	ND 0.28	ND 0.14	ND 2.8	ND 0.14	ND 0.14
Styrene	ug/l	ND 6.5	ND 2.6	ND 0.13	ND 0.26	ND 0.13	ND 2.6	ND 0.13	ND 0.13
tert-Butylbenzene	ug/l	ND 6.5	ND 2.6	ND 0.13	ND 0.26	ND 0.13	ND 2.6	ND 0.13	ND 0.13
Tetrachloroethene (PCE)	ug/l	ND 5.0	2.3 J	ND 0.10	0.80 J	3.4	ND 2.0	ND 0.10	ND 0.10
Toluene	ug/l	ND 4.8	ND 1.9	ND 0.095	ND 0.19	ND 0.095	ND 1.9	ND 0.095	ND 0.095
trans-1,2-Dichloroethene	ug/l	ND 5.5	ND 2.2	0.28 J	0.77 J	0.74	ND 2.2	ND 0.11	ND 0.11
trans-1,3-Dichloropropene	ug/l	ND 8.0	ND 3.2	ND 0.16	ND 0.32	ND 0.16	ND 3.2	ND 0.16	ND 0.16
Trichloroethene (TCE)	ug/l	160	530	3	31	62	ND 2.0	ND 0.10	0.82
Trichlorofluoromethane (CFC 11)	ug/l	ND 6.5	ND 2.6	ND 0.13	ND 0.26	ND 0.13	ND 2.6	ND 0.13	ND 0.13
Vinyl Acetate	ug/l	ND 9.5	ND 3.8	ND 0.19	ND 0.38	ND 0.19	ND 3.8	ND 0.19	ND 0.19
Vinyl Chloride	ug/l	ND 9.0	ND 3.6	ND 0.18	1.5	ND 0.18	19	ND 0.18	ND 0.18
Xylenes, Total	ug/l	ND 14	ND 5.4	ND 0.27	ND 0.54	ND 0.27	ND 5.4	ND 0.27	ND 0.27

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S101B4	S111B1	S111B1	S133B1	S134A	S135A	S136A	S141A
Date Sampled		11/04/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/03/2021	11/02/2021	11/02/2021
Analysis Date		11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/15/2021	11/12/2021	11/12/2021
Sample Purpose		REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 0.10	ND 1.0	ND 0.50	ND 0.10	ND 0.20	ND 0.50	ND 2.0	ND 2.0
1,1,1-Trichloroethane (TCA)	ug/l	ND 0.10	ND 1.0	ND 0.50	ND 0.10	ND 0.20	ND 0.50	ND 2.0	ND 2.0
1,1,2,2-Tetrachloroethane	ug/l	ND 0.11	ND 1.1	ND 0.55	ND 0.11	ND 0.22	ND 0.55	ND 2.2	ND 2.2
1,1,2-Trichloroethane	ug/l	ND 0.12	ND 1.2	ND 0.60	ND 0.12	ND 0.24	ND 0.60	ND 2.4	ND 2.4
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 0.10	ND 1.0	ND 0.50	ND 0.10	5.2	ND 0.50	25	5.1 J
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 0.13	ND 1.3	ND 0.65	ND 0.13	1.4	ND 0.65	ND 2.6	ND 2.6
1,1-Dichloropropene	ug/l	ND 0.12	ND 1.2	ND 0.60	ND 0.12	ND 0.24	ND 0.60	ND 2.4	ND 2.4
1,2,3-Trichlorobenzene	ug/l	ND 0.40	ND 4.0	ND 2.0	ND 0.40	ND 0.80	ND 2.0	ND 8.0	ND 8.0
1,2,3-Trichloropropane	ug/l	ND 0.13	ND 1.3	ND 0.65	ND 0.13	ND 0.26	ND 0.65	ND 2.6	ND 2.6
1,2,4-Trichlorobenzene	ug/l	ND 0.25	ND 2.5	ND 1.3	ND 0.25	ND 0.50	ND 1.3	ND 5.0	ND 5.0
1,2,4-Trimethylbenzene	ug/l	ND 0.32	ND 3.2	ND 1.6	ND 0.32	ND 0.64	ND 1.6	ND 6.4	ND 6.4
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 0.20	ND 2.0	ND 1.0	ND 0.20	ND 0.40	ND 1.0	ND 4.0	ND 4.0
1,2-Dibromoethane (EDB)	ug/l	ND 0.12	ND 1.2	ND 0.60	ND 0.12	ND 0.24	ND 0.60	ND 2.4	ND 2.4
1,2-Dichlorobenzene	ug/l	ND 0.097	ND 0.97	ND 0.49	ND 0.097	4.2	ND 0.49	ND 1.9	ND 1.9
1,2-Dichloroethane	ug/l	ND 0.14	ND 1.4	ND 0.70	ND 0.14	ND 0.28	ND 0.70	ND 2.8	ND 2.8
1,2-Dichloropropane	ug/l	ND 0.15	ND 1.5	ND 0.75	ND 0.15	ND 0.30	ND 0.75	ND 3.0	ND 3.0
1,3,5-Trimethylbenzene	ug/l	ND 0.16	ND 1.6	ND 0.80	ND 0.16	ND 0.32	ND 0.80	ND 3.2	ND 3.2
1,3-Dichlorobenzene	ug/l	ND 0.086	ND 0.86	ND 0.43	ND 0.086	ND 0.17	ND 0.43	ND 1.7	ND 1.7
1,3-Dichloropropane	ug/l	ND 0.10	ND 1.0	ND 0.50	ND 0.10	ND 0.20	ND 0.50	ND 2.0	ND 2.0
1,4-Dichlorobenzene	ug/l	ND 0.083	ND 0.83	ND 0.42	ND 0.083	ND 0.17	ND 0.42	ND 1.7	ND 1.7
2,2-Dichloropropane	ug/l	ND 0.46	ND 4.6	ND 2.3	ND 0.46	ND 0.92	ND 2.3	ND 9.2	ND 9.2
2-Butanone (MEK)	ug/l	ND 0.33	ND 3.3	ND 1.7	ND 0.33	1.3 J	ND 1.7	ND 6.6	12 J
2-Chlorotoluene	ug/l	ND 0.11	ND 1.1	ND 0.55	ND 0.11	ND 0.22	ND 0.55	ND 2.2	ND 2.2
2-Hexanone	ug/l	ND 0.17	ND 1.7	ND 0.85	ND 0.17	ND 0.34	ND 0.85	ND 3.4	ND 3.4
4-Chlorotoluene	ug/l	ND 0.10	ND 1.0	ND 0.50	ND 0.10	ND 0.20	ND 0.50	ND 2.0	ND 2.0

Notes:

- ND - Result was below the detection limit
- NT - Sample not tested for the given parameter
- J - Estimated value below RL but above MDL
- B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S101B4	S111B1	S111B1	S133B1	S134A	S135A	S136A	S141A
Date Sampled		11/04/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/03/2021	11/02/2021	11/02/2021
Analysis Date		11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/15/2021	11/12/2021	11/12/2021
Sample Purpose		REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 0.15	ND 1.5	ND 0.75	ND 0.15	NT	ND 0.75	ND 3.0	ND 3.0
Acetone	ug/l	ND 3.8	ND 38	ND 19	ND 3.8	ND 7.6	ND 19	ND 76	ND 76
Benzene	ug/l	ND 0.080	ND 0.80	ND 0.40	ND 0.080	ND 0.16	ND 0.40	ND 1.6	ND 1.6
Bromobenzene	ug/l	ND 0.091	ND 0.91	ND 0.46	ND 0.091	ND 0.18	ND 0.46	ND 1.8	ND 1.8
Bromochloromethane	ug/l	ND 0.18	ND 1.8	ND 0.90	ND 0.18	ND 0.36	ND 0.90	ND 3.6	ND 3.6
Bromodichloromethane	ug/l	ND 0.14	ND 1.4	ND 0.70	ND 0.14	ND 0.28	ND 0.70	ND 2.8	ND 2.8
Bromoform	ug/l	ND 0.19	ND 1.9	ND 0.95	ND 0.19	ND 0.38	ND 0.95	ND 3.8	ND 3.8
Bromomethane	ug/l	ND 0.21	ND 2.1	ND 1.1	ND 0.21	ND 0.42	ND 1.1	ND 4.2	ND 4.2
Carbon Disulfide	ug/l	ND 0.36	ND 3.6	ND 1.8	ND 0.36	ND 0.72	ND 1.8	ND 7.2	ND 7.2
Carbon Tetrachloride	ug/l	ND 0.12	ND 1.2	ND 0.60	ND 0.12	ND 0.24	ND 0.60	ND 2.4	ND 2.4
Chlorobenzene	ug/l	ND 0.070	ND 0.70	ND 0.35	ND 0.070	ND 0.14	ND 0.35	ND 1.4	ND 1.4
Chloroethane	ug/l	ND 0.24	ND 2.4	ND 1.2	ND 0.24	ND 0.48	ND 1.2	ND 4.8	18 J
Chloroform	ug/l	ND 0.12	ND 1.2	ND 0.60	ND 0.12	ND 0.24	ND 0.60	ND 2.4	ND 2.4
Chloromethane	ug/l	ND 0.26	ND 2.6	ND 1.3	ND 0.26	ND 0.52	ND 1.3	ND 5.2	ND 5.2
cis-1,2-Dichloroethene	ug/l	ND 0.18	180	230	ND 0.18	64	310	740	980
cis-1,3-Dichloropropene	ug/l	ND 0.15	ND 1.5	ND 0.75	ND 0.15	ND 0.30	ND 0.75	ND 3.0	ND 3.0
Dibromochloromethane	ug/l	ND 0.16	ND 1.6	ND 0.80	ND 0.16	ND 0.32	ND 0.80	ND 3.2	ND 3.2
Dibromomethane	ug/l	ND 0.17	ND 1.7	ND 0.85	ND 0.17	ND 0.34	ND 0.85	ND 3.4	ND 3.4
Dichlorodifluoromethane (CFC 12)	ug/l	ND 0.32	ND 3.2	ND 1.6	ND 0.32	ND 0.64	ND 1.6	ND 6.4	ND 6.4
Ethylbenzene	ug/l	ND 0.084	ND 0.84	ND 0.42	ND 0.084	ND 0.17	ND 0.42	ND 1.7	ND 1.7
Hexachlorobutadiene	ug/l	ND 0.23	ND 2.3	ND 1.2	ND 0.23	ND 0.46	ND 1.2	ND 4.6	ND 4.6
Isopropylbenzene	ug/l	ND 0.11	ND 1.1	ND 0.55	ND 0.11	ND 0.22	ND 0.55	ND 2.2	ND 2.2
Methyl Isobutyl Ketone	ug/l	ND 0.11	ND 1.1	ND 0.55	ND 0.11	ND 0.22	ND 0.55	ND 2.2	ND 2.2
Methylene Chloride	ug/l	ND 0.16	ND 1.6	ND 0.80	ND 0.16	ND 0.32	ND 0.80	ND 3.2	ND 3.2
MTBE	ug/l	ND 0.12	ND 1.2	ND 0.60	ND 0.12	ND 0.24	ND 0.60	ND 2.4	ND 2.4

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

**TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA**

Location ID		S101B4	S111B1	S111B1	S133B1	S134A	S135A	S136A	S141A
Date Sampled		11/04/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021	11/03/2021	11/02/2021	11/02/2021
Analysis Date		11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021	11/15/2021	11/12/2021	11/12/2021
Sample Purpose		REG	FD	REG	REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 0.18	ND 1.8	ND 0.90	ND 0.18	ND 0.36	ND 0.90	ND 3.6	ND 3.6
n-Propylbenzene	ug/l	ND 0.11	ND 1.1	ND 0.55	ND 0.11	ND 0.22	ND 0.55	ND 2.2	ND 2.2
Naphthalene	ug/l	ND 0.48	ND 4.8	ND 2.4	ND 0.48	ND 0.96	ND 2.4	ND 9.6	ND 9.6
sec-Butylbenzene	ug/l	ND 0.14	ND 1.4	ND 0.70	ND 0.14	ND 0.28	ND 0.70	ND 2.8	ND 2.8
Styrene	ug/l	ND 0.13	ND 1.3	ND 0.65	ND 0.13	ND 0.26	ND 0.65	ND 2.6	ND 2.6
tert-Butylbenzene	ug/l	ND 0.13	ND 1.3	ND 0.65	ND 0.13	ND 0.26	ND 0.65	ND 2.6	ND 2.6
Tetrachloroethene (PCE)	ug/l	ND 0.10	ND 1.0	ND 0.50	ND 0.10	0.25 J	ND 0.50	ND 2.0	ND 2.0
Toluene	ug/l	ND 0.095	ND 0.95	ND 0.48	ND 0.095	ND 0.19	ND 0.48	ND 1.9	ND 1.9
trans-1,2-Dichloroethene	ug/l	ND 0.11	1.5 J	2.2 J	ND 0.11	0.55 J	ND 0.55	6.3 J	6.6 J
trans-1,3-Dichloropropene	ug/l	ND 0.16	ND 1.6	ND 0.80	ND 0.16	ND 0.32	ND 0.80	ND 3.2	ND 3.2
Trichloroethene (TCE)	ug/l	0.11 J	260	300	2.3	2.8	8.2	10	570
Trichlorofluoromethane (CFC 11)	ug/l	ND 0.13	ND 1.3	ND 0.65	ND 0.13	ND 0.26	ND 0.65	ND 2.6	ND 2.6
Vinyl Acetate	ug/l	ND 0.19	ND 1.9	ND 0.95	ND 0.19	ND 0.38	ND 0.95	ND 3.8	ND 3.8
Vinyl Chloride	ug/l	ND 0.18	ND 1.8	ND 0.90	ND 0.18	6.1	15	240	76
Xylenes, Total	ug/l	ND 0.27	ND 2.7	ND 1.4	ND 0.27	ND 0.54	ND 1.4	ND 5.4	ND 5.4

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA

Location ID		S153B1	S157B1	S158A	S159A	S160A
Date Sampled		11/04/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021
Analysis Date		11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021
Sample Purpose		REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
1,1,1,2-Tetrachloroethane	ug/l	ND 10	ND 0.10	ND 50	ND 0.10	ND 2.0
1,1,1-Trichloroethane (TCA)	ug/l	ND 10	0.39 J	ND 50	ND 0.10	ND 2.0
1,1,2,2-Tetrachloroethane	ug/l	ND 11	ND 0.11	ND 55	ND 0.11	ND 2.2
1,1,2-Trichloroethane	ug/l	ND 12	ND 0.12	ND 60	ND 0.12	ND 2.4
1,1-Dichloroethane (1,1-DCA)	ug/l	ND 10	0.32 J	85 J	ND 0.10	4.4 J
1,1-Dichloroethene (1,1-DCE)	ug/l	ND 13	0.34 J	ND 65	ND 0.13	ND 2.6
1,1-Dichloropropene	ug/l	ND 12	ND 0.12	ND 60	ND 0.12	ND 2.4
1,2,3-Trichlorobenzene	ug/l	ND 40	ND 0.40	ND 200	ND 0.40	ND 8.0
1,2,3-Trichloropropane	ug/l	ND 13	ND 0.13	ND 65	ND 0.13	ND 2.6
1,2,4-Trichlorobenzene	ug/l	ND 25	ND 0.25	ND 130	ND 0.25	ND 5.0
1,2,4-Trimethylbenzene	ug/l	ND 32	ND 0.32	ND 160	ND 0.32	ND 6.4
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	ND 20	ND 0.20	ND 100	ND 0.20	ND 4.0
1,2-Dibromoethane (EDB)	ug/l	ND 12	ND 0.12	ND 60	ND 0.12	ND 2.4
1,2-Dichlorobenzene	ug/l	ND 9.7	ND 0.097	ND 49	0.14 J	ND 1.9
1,2-Dichloroethane	ug/l	ND 14	ND 0.14	ND 70	ND 0.14	ND 2.8
1,2-Dichloropropane	ug/l	ND 15	ND 0.15	ND 75	ND 0.15	ND 3.0
1,3,5-Trimethylbenzene	ug/l	ND 16	ND 0.16	ND 80	ND 0.16	ND 3.2
1,3-Dichlorobenzene	ug/l	ND 8.6	ND 0.086	ND 43	ND 0.086	ND 1.7
1,3-Dichloropropane	ug/l	ND 10	ND 0.10	ND 50	ND 0.10	ND 2.0
1,4-Dichlorobenzene	ug/l	ND 8.3	ND 0.083	ND 42	ND 0.083	ND 1.7
2,2-Dichloropropane	ug/l	ND 46	ND 0.46	ND 230	ND 0.46	ND 9.2
2-Butanone (MEK)	ug/l	ND 33	ND 0.33	ND 170	1.4 J	ND 6.6
2-Chlorotoluene	ug/l	ND 11	ND 0.11	ND 55	ND 0.11	ND 2.2
2-Hexanone	ug/l	ND 17	ND 0.17	ND 85	0.39 J	ND 3.4
4-Chlorotoluene	ug/l	ND 10	ND 0.10	ND 50	ND 0.10	ND 2.0

Notes:

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NT - Sample not tested for the given parameter

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TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA

Location ID		S153B1	S157B1	S158A	S159A	S160A
Date Sampled		11/04/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021
Analysis Date		11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021
Sample Purpose		REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
4-Isopropyltoluene	ug/l	ND 15	ND 0.15	ND 75	ND 0.15	ND 3.0
Acetone	ug/l	ND 380	ND 3.8	ND 1900	ND 3.8	ND 76
Benzene	ug/l	ND 8.0	ND 0.080	ND 40	ND 0.080	ND 1.6
Bromobenzene	ug/l	ND 9.1	ND 0.091	ND 46	ND 0.091	ND 1.8
Bromochloromethane	ug/l	ND 18	ND 0.18	ND 90	ND 0.18	ND 3.6
Bromodichloromethane	ug/l	ND 14	ND 0.14	ND 70	ND 0.14	ND 2.8
Bromoform	ug/l	ND 19	ND 0.19	ND 95	ND 0.19	ND 3.8
Bromomethane	ug/l	ND 21	ND 0.21	ND 110	ND 0.21	ND 4.2
Carbon Disulfide	ug/l	ND 36	ND 0.36	ND 180	ND 0.36	ND 7.2
Carbon Tetrachloride	ug/l	ND 12	ND 0.12	ND 60	ND 0.12	ND 2.4
Chlorobenzene	ug/l	ND 7.0	ND 0.070	ND 35	ND 0.070	ND 1.4
Chloroethane	ug/l	ND 24	ND 0.24	ND 120	4.1	25
Chloroform	ug/l	ND 12	0.21 J	ND 60	ND 0.12	ND 2.4
Chloromethane	ug/l	ND 26	ND 0.26	ND 130	ND 0.26	ND 5.2
cis-1,2-Dichloroethene	ug/l	26 J	1.1	15000	2.4	750
cis-1,3-Dichloropropene	ug/l	ND 15	ND 0.15	ND 75	ND 0.15	ND 3.0
Dibromochloromethane	ug/l	ND 16	ND 0.16	ND 80	ND 0.16	ND 3.2
Dibromomethane	ug/l	ND 17	ND 0.17	ND 85	ND 0.17	ND 3.4
Dichlorodifluoromethane (CFC 12)	ug/l	ND 32	ND 0.32	ND 160	ND 0.32	ND 6.4
Ethylbenzene	ug/l	ND 8.4	ND 0.084	ND 42	ND 0.084	ND 1.7
Hexachlorobutadiene	ug/l	ND 23	ND 0.23	ND 120	ND 0.23	ND 4.6
Isopropylbenzene	ug/l	ND 11	ND 0.11	ND 55	ND 0.11	ND 2.2
Methyl Isobutyl Ketone	ug/l	ND 11	ND 0.11	ND 55	ND 0.11	ND 2.2
Methylene Chloride	ug/l	ND 16	ND 0.16	ND 80	ND 0.16	ND 3.2
MTBE	ug/l	ND 12	ND 0.12	ND 60	ND 0.12	ND 2.4

Notes:

ND - Result was below the detection limit

NT - Sample not tested for the given parameter

J - Estimated value below RL but above MDL

B - Analyte was present in an associated method blank

TABLE 2
2021 GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
SIGNETICS SITE, 811 EAST ARQUES, SUNNYVALE, CALIFORNIA

Location ID		S153B1	S157B1	S158A	S159A	S160A
Date Sampled		11/04/2021	11/02/2021	11/02/2021	11/02/2021	11/02/2021
Analysis Date		11/16/2021	11/12/2021	11/12/2021	11/12/2021	11/12/2021
Sample Purpose		REG	REG	REG	REG	REG
Parameter Name	Report Units	Report Result	Report Result	Report Result	Report Result	Report Result
n-Butylbenzene	ug/l	ND 18	ND 0.18	ND 90	ND 0.18	ND 3.6
n-Propylbenzene	ug/l	ND 11	ND 0.11	ND 55	ND 0.11	ND 2.2
Naphthalene	ug/l	ND 48	ND 0.48	ND 240	ND 0.48	ND 9.6
sec-Butylbenzene	ug/l	ND 14	ND 0.14	ND 70	ND 0.14	ND 2.8
Styrene	ug/l	ND 13	ND 0.13	ND 65	ND 0.13	ND 2.6
tert-Butylbenzene	ug/l	ND 13	ND 0.13	ND 65	ND 0.13	ND 2.6
Tetrachloroethene (PCE)	ug/l	13 J	1.2	ND 50	ND 0.10	ND 2.0
Toluene	ug/l	ND 9.5	ND 0.095	ND 48	ND 0.095	ND 1.9
trans-1,2-Dichloroethene	ug/l	ND 11	ND 0.11	ND 55	3.2	6.7 J
trans-1,3-Dichloropropene	ug/l	ND 16	ND 0.16	ND 80	ND 0.16	ND 3.2
Trichloroethene (TCE)	ug/l	2600	61	ND 50	0.41 J	110
Trichlorofluoromethane (CFC 11)	ug/l	ND 13	ND 0.13	ND 65	ND 0.13	ND 2.6
Vinyl Acetate	ug/l	ND 19	ND 0.19	ND 95	ND 0.19	ND 3.8
Vinyl Chloride	ug/l	ND 18	ND 0.18	6600	0.59	55
Xylenes, Total	ug/l	ND 27	ND 0.27	ND 140	ND 0.27	ND 5.4

Notes:

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NT - Sample not tested for the given parameter

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TABLE 2
GROUNDWATER ELEVATIONS, 11 OCTOBER 2021
 FORMER 901/901 THOMPSON FACILITY
 SUNNYVALE, CALIFORNIA

remove draft?

Well ID	Aquifer Zone Screened	Top of Casing Elevation (feet NAVD88)	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet NAVD88)
15-S	A	50.82	9.11	41.71
16-S		47.70	10.45	37.25
22-S		46.37	8.49	37.88
23-S		47.03	9.17	37.86
27-S		50.71	10.61	40.10
28-S		47.88	10.06	37.82
29-S		50.10	9.5	40.60
36-S		41.46	6.34	35.12
37-S		42.06	6.61	35.45
DW-7		B1	46.11	7.80
23-D	47.04		7.58	39.46
27-D	50.59		10.04	40.55
28-D	47.74		9.88	37.86
29-D	50.17		9.54	40.63
36-D	41.26		6.08	35.18
52-D	48.31		9.11	39.20
53-D	50.94		7.83	43.11
22-DD	B2	46.45	6.97	39.48
27-DD		50.72	8.84	41.88
36-DD		41.58	5.44	36.14
35-DDD	B3	46.47	6.02	40.45

Notes:

- feet btoc = Feet below top of casing
- feet NAVD88 = Elevation (in feet) relative to the North American Vertical Datum of 1988.
- 1. Water levels were measured by Field Solutions, Inc. of San Jose, California.

TABLE 3

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES, OCTOBER 2021^{1,2}
 FORMER 901/902 THOMPSON PLACE FACILITY
 SUNNYVALE, CALIFORNIA

Well ID	Aquifer Zone	Sampling Date	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	1,1-DCA	1,1,1-TCA	Freon 113	1,2-DCB	
15-S	A	10/14/2021	< 0.50	4.0	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
16-S		10/14/2021	< 2.0	< 2.0	29	< 2.0	170	< 2.0	< 2.0	< 2.0	< 2.0	8.8	
22-S		10/15/2021	0.68	13	38	3.7	5.2	< 0.50	< 0.50	< 0.50	< 0.50	10	
23-S		10/14/2021	2.0	63	46	5.3	< 0.50	0.90	< 0.50	< 0.50	< 0.50	18	
27-S		10/15/2021	< 2.5 / < 2.0	14 / 11	250 / 210	12 / 9.8	20 / 17	< 2.5 / < 2.0	< 2.5 / < 2.0	< 2.5 / < 2.0	< 2.5 / < 2.0	< 2.5 / < 2.0	< 2.5 / < 2.0
28-S		10/15/2021	< 10	< 10	110	< 10	590	< 10	< 10	< 10	< 10	< 10	14
29-S		10/14/2021	< 0.50	15	3.7	< 0.50	0.68	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
36-S		10/15/2021	1.7	56	12	0.54	0.58	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
37-S		10/15/2021	0.54	40	11	< 0.50	0.76	< 0.50	< 0.50	< 0.50	0.62	< 0.50	< 0.50
DW-7		B1	10/14/2021	< 1.0	8.8	78	1.5	65	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
23-D	10/14/2021		< 2.0 / < 2.0	210 / 190	3.1 / 3.4	< 2.0 / < 2.0	< 2.0 / < 2.0	< 2.0 / < 2.0	< 2.0 / < 2.0	< 2.0 / < 2.0	2.1 / < 2.0	< 2.0 / < 2.0	
27-D	10/15/2021		4.0 / 3.1	79 / 60	2.6 / 2.2	< 0.50 / < 1.0	< 0.50 / < 1.0	< 0.50 / < 1.0	< 0.50 / < 1.0	0.60 / < 1.0	< 0.50 / < 1.0	< 0.50 / < 1.0	
28-D	10/15/2021		< 5.0	< 5.0	170	8.9	290	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
29-D	10/15/2021		2.5	56	2.0	< 0.50	< 0.50	0.59	< 0.50	0.68	< 0.50	< 0.50	
36-D	10/15/2021		< 0.50	5.4	58	3.5	0.78	< 0.50	0.60	< 0.50	< 0.50	< 0.50	
52-D	10/14/2021		< 0.50	16	0.65	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
53-D	10/14/2021	< 0.50	7.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
22-DD	B2	10/15/2021	< 1.0	100	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
27-DD		10/15/2021	< 0.50	18	6.7	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
36-DD		10/15/2021	< 0.50	2.0	16	2.9	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
35-DDD	B3	10/14/2021	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Cleanup Goal ³			5.0	5.0	6.0	10	0.5	6.0	5.0	200	1,200	600	

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Notes:

- < = Constituent not detected above the laboratory reporting limit shown
 - 1,1,1-TCA = 1,1,1-Trichloroethane
 - 1,1-DCA = 1,1-Dichloroethane
 - 1,1-DCE = 1,1-Dichloroethene
 - 1,2-DCB = 1,2-Dichlorobenzene
 - cDCE = cis-1,2-Dichloroethene
 - Freon 113 = 1,1,2-Trichloro-1,2,2-Trifluoromethane
 - J = Concentration is estimated
 - PCE = Tetrachloroethene
 - TCE = Trichloroethene
 - tDCE = trans-1,2-Dichloroethene
 - VC = Vinyl chloride
- Groundwater samples were collected by Field Solutions, Inc., of San Jose, California, and analyzed by Eurofins TestAmerica of West Sacramento, California, for the EPA Method 8010 list with Freon 113 in accordance with EPA Method 8260B.
 - Only compounds listed in the Record of Decision are included in this table; for a full list of analytes and detected compounds, see laboratory analytical reports
 - Cleanup Goal is the lower of the Federal and California Maximum Contaminant Levels (MCLs).
 Concentrations reported in micrograms per liter (µg/L).
 Results in **bold** indicate the constituent was detected in the sample above the laboratory reporting limit.
 Multiple results indicate primary / duplicate sample results.

TABLE 2
GROUNDWATER ELEVATIONS, 11 OCTOBER 2021
 FORMER 915 DEGUIGNE DRIVE
 SUNNYVALE, CALIFORNIA

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3 pages

Well ID	Aquifer Zone Screened	Top of Casing Elevation (feet NAVD 88)	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet NAVD 88)
2-SR	A	37.29	9.91	27.38
19-S		37.14	10.16	26.98
40-S		37.73	9.04	28.69
41-S		39.43	8.02	31.41
49-S		40.22	10.51	29.71
53-S		32.87	9.70	23.17
54-S		32.93	9.12	23.81
55-S		35.81	8.70	27.11
56-S		38.68	10.45	28.23
57-S		38.61	9.08	29.53
10-DR		B1	37.31	10.40
19-D	37.24		11.08	26.16
40-D	37.57		9.58	27.99
41-D	NS ²		7.07	--
49-DR	40.39		10.51	29.88
52-D	32.77		8.89	23.88
56-D	38.66		16.30	22.36
57-D	38.51		8.68	29.83
45-DD	B2	33.16	7.90	25.26
49-DD		40.32	11.78	28.54
53-DD		35.85	13.78	22.07
54-DD		32.73	13.96	18.77
56-DD		38.49	14.03	24.46
57-DD		38.97	11.73	27.24

Notes:

feet btoc = Feet below top of casing

feet NAVD88 = Elevation (in feet) relative to the North American Vertical Datum of 1988

NS = Not surveyed

1. Water levels were measured by Field Solutions, Inc. of San Jose, California.
2. The top of casing was adjusted during Site redevelopment, and will be resurveyed.

TABLE 3

ANALYTICAL RESULTS FOR DETECTED COMPOUNDS IN GROUNDWATER SAMPLES, OCTOBER 2021^{1,2}

FORMER 915 DEGUIGNE DRIVE
SUNNYVALE, CALIFORNIA

Well ID	Aquifer Zone	Sampling Date	PCE	TCE	cDCE	tDCE	VC	Freon 113	1,1,1-TCA	1,1-DCA	1,1-DCE	1,2,4-TCB
Extraction Wells												
EW-12	A	10/19/2021	< 0.50	29	16	0.45 J	< 0.50	< 0.50	< 0.50	0.11 J	0.14 J	< 1.0
EW-13		10/19/2021	< 0.50	5.3	4.3	< 0.50	< 0.50	0.25 J	< 0.50	< 0.50	< 0.50	< 1.0
EW-16		10/19/2021	0.13 J	63	25	0.60	2.3	0.25 J	< 0.50	0.13 J	0.15 J	< 1.0
EW-17		10/19/2021	< 0.50	62	41	0.85	1.2	0.25 J	< 0.50	0.18 J	0.18 J	< 1.0
EW-18		10/19/2021	< 0.50	36	15	0.35 J	< 0.50	0.35 J	< 0.50	0.12 J	< 0.50	< 1.0
EW-19		10/19/2021	< 0.50	13	11	0.13 J	< 0.50	0.45 J	< 0.50	0.12 J	< 0.50	< 1.0
EW-11	B1	10/19/2021	0.29 J	66	48	0.91 J	< 1.0	3.2	< 1.0	0.25 J	0.45 J	< 2.0
EW-15		10/19/2021	< 1.0 / < 1.0	71 / 71	14 / 14	< 1.0 / < 1.0	< 1.0 / < 1.0	1.4 / 1.3	< 1.0 / < 1.0	< 1.0 / 0.20 J	< 1.0 / < 1.0	< 2.0 / < 2.0
EW-20		10/19/2021	< 0.50	28	2.5	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 1.0
EW-21		10/19/2021	< 0.50	79	7.3	< 0.50	< 0.50	30	< 0.50	0.14 J	< 0.50	< 1.0
EW-10	B2	10/19/2021	< 0.50	67	14	0.21 J	1.0	5.9	< 0.50	0.15 J	0.31 J	< 1.0
EW-14		10/19/2021	< 1.0	75	7.6	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	< 2.0
Monitoring Wells												
2-SR	A	10/20/2021	0.12 J	65	18	0.40 J	8.6	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
19-S		10/19/2021	< 0.50	30	10	0.38 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
40-S		10/18/2021	0.30 J	62	17	0.78	< 0.50	< 0.50	< 0.50	0.12 J	< 0.50	< 1.0
41-S		10/18/2021	1.3	47	15	1.3	1.2	< 0.50	< 0.50	0.19 J	0.15 J	< 1.0
49-S		10/18/2021	0.37 J	19	4.2	0.14 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
53-S		10/20/2021	< 0.50	71	35	0.68	1.1	0.54	< 0.50	0.20 J	0.23 J	< 1.0
54-S		10/20/2021	0.34 J	59	17	0.54	< 0.50	0.66	0.12 J	0.15 J	< 0.50	< 1.0
55-S		10/19/2021	< 0.50	0.12 J	0.80	0.22 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
56-S		10/19/2021	0.20 J	21	13	0.34 J	0.98	< 0.50	< 0.50	0.17 J	< 0.50	< 1.0
57-S		10/19/2021	< 0.50	0.12 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
10-DR	B1	10/20/2021	< 0.50 / < 0.50	0.10 J / < 0.50	< 0.50 / < 0.50	< 0.50 / < 0.50	6.5 / 7.0	< 0.50 / < 0.50	< 0.50 / < 0.50	0.34 J / 0.35 J	< 0.50 / < 0.50	< 1.0 / < 1.0
19-D		10/19/2021	< 0.50	34	14	0.31 J	< 0.50	< 0.50	< 0.50	0.13 J	< 0.50	< 1.0
40-D		10/19/2021	< 1.0 / < 1.0	63 / 66	37 / 38	0.80 J / 0.91 J	3.7 / 4.1	< 1.0 / < 1.0	< 1.0 / < 1.0	< 1.0 / < 1.0	< 1.0 / < 1.0	< 2.0 / < 2.0
41-D		10/25/2021	0.84 J	81	97	1.6	5.1	< 1.0	< 1.0	0.20 J	0.38 J	< 2.0
49-DR		10/18/2021	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
52-D		10/19/2021	< 0.50	0.13 J	0.50	< 0.50	0.33 J	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
56-D		10/19/2021	0.81 J	69	69	1.6	< 1.0	2.0	0.45 J	0.41 J	0.48 J	< 2.0
57-D	10/19/2021	1.2	66	61	1.2	< 1.0	0.74 J	0.46 J	0.47 J	0.55 J	< 2.0	
45-DD	B2	10/19/2021	< 0.50	12	< 0.50	< 0.50	< 0.50	3.0	< 0.50	< 0.50	< 0.50	< 1.0
49-DD		10/18/2021	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
53-DD		10/20/2021	< 1.0 / < 1.0	85 / 90	1.1 / 1.0	< 1.0 / < 1.0	< 1.0 / < 1.0	3.0 / 3.2	< 1.0 / < 1.0	< 1.0 / < 1.0	< 1.0 / < 1.0	< 2.0 / < 2.0
54-DD		10/19/2021	< 0.50	1.0	0.82	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
56-DD		10/18/2021	< 0.50	28	23	0.74	4.3	< 0.50	< 0.50	< 0.50	0.72	< 1.0
57-DD	10/19/2021	< 0.50	2.6	< 0.50	< 0.50	< 0.50	0.27 J	< 0.50	< 0.50	< 0.50	< 1.0	
Cleanup Goal ³			5.0	5.0	6.0	10	0.5	1,200	200	5.0	6.0	5.0

TABLE 3

ANALYTICAL RESULTS FOR DETECTED COMPOUNDS IN GROUNDWATER SAMPLES, OCTOBER 2021^{1,2}

FORMER 915 DEGUIGNE DRIVE

SUNNYVALE, CALIFORNIA

Notes:

< = Constituent not detected above the laboratory reporting limit (RL) shown.

< 0.50 / < 0.50 = indicates that a duplicate sample was collected

1,1,1-TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

1,2,4-TCB = 1,2,4-Trichlorobenzene

cDCE = cis-1,2-Dichloroethene

Freon 113 = 1,1,2-Trichloro-1,2,2-trifluoroethane

J+ = Concentration is estimated, biased high.

J = Concentration is estimated.

PCE = Tetrachloroethene

TCE = Trichloroethene

tDCE = trans-1,2-Dichloroethene

VC = Vinyl chloride

1. Groundwater samples were collected by Field Solutions, Inc. of San Jose, California, and analyzed by Eurofins TestAmerica of Tacoma, Washington, for United States Environmental Protection Agency (EPA) Method 8260B.

2. Only detected compounds that are included in the Site Cleanup Requirements Order Number 91-101 are shown; for a full list of detected compounds, see laboratory analytical reports.

3. Cleanup Goal is the lower of the Federal or California Maximum Contaminant Levels.

Concentrations reported in micrograms per liter (µg/L).

Results in **bold** indicate that the analyte was detected above the laboratory RL.

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Table 2: 2021 Groundwater Elevations

CAE-USA

Monitoring Well	Measuring Point Elevation (ft amsl) ^(a)	Date	Depth to Groundwater (feet) ^(b)	Groundwater Elevation (ft amsl)
A-Aquifer				
CLA-1	41.48	10/11/21	10.30	31.18
CLA-2	38.41	10/11/21	9.72	28.69
CLA-3	39.92	10/11/21	11.38	28.54
CLA-4	41.30	10/11/21	10.55	30.75
SU4A-1	35.26	10/11/21	8.68	26.58
SU4A-2	31.50		Well Destroyed	
SU4A-3	33.74		Well Destroyed	
SU4A-4	28.91	10/11/21	12.08	16.83
SU4A-5	34.41	10/11/21	7.11	27.30
SU4PA-1	36.72		Well Destroyed	
SU4EWA-1	34.97		Well Destroyed	
SU4EWA-2	32.95		Well Destroyed	
B1-Aquifer				
SU4B1-1	34.43	10/11/21	7.10	27.33
SU4B1-3	40.25		Well Destroyed	
SU4PB1-1	34.68	10/11/21	Well Destroyed	
SU4EWB1-1	33.19		Well Destroyed	
73B1	37.11	10/11/21	8.24	28.87
84B1	26.58	10/11/21	NM ^(c)	
B2-Aquifer				
SU4B2-2	29.54	10/11/21	7.01	22.53
73B2	37.45	10/11/21	3.01	34.44

Notes and Abbreviations:

(a) ft amsl = feet above mean sea level according to the National Geodetic Vertical Datum (NGVD 1928).

(b) feet = feet below top of casing

(c) NM = monitoring well not accessible during sampling event.

Table 3: Summary of Analytical Results - Halogenated Volatile Organic Compounds

CAE-USA

Location	Date	Chemical CAS Number Units California MCL Note	VOCs										Field			
			1,1,1-TCA	1,1-DCA	1,1-DCE	Chloroform	cis-1,2-DCE	CFC-113	PCE	trans-1,2-DCE	TCE	CFC-11	VC	pH	Temp	Cond
			71-55-6	75-34-3	75-35-4	67-66-3	156-59-2	76-13-1	127-18-4	156-60-5	79-01-6	75-69-4	75-01-4	pH	TEMP	SC
			200	5	6	80	6	1,200	5	10	5	150	0.5	SU	deg c	uS/cm
A-Aquifer																
CLA-1	10/11/2021		< 0.50	0.58	< 0.50	< 1.0	5.6	< 0.50	1.5	< 0.50	41	< 1.0	< 0.50	7.60	23.0	1,043
CLA-2			Not sampled, biennial schedule.													
CLA-3			Not sampled, biennial schedule.													
CLA-4	10/11/2021		< 0.50	0.97	< 0.50	< 1.0	13	0.76	0.50	2.7	58	< 1.0	< 0.50	7.38	22.2	1,037
SU4A-1	10/11/2021		< 2.5	< 2.5	< 2.5	< 5.0	110	4.6	< 2.5	< 2.5	190	< 5.0	< 2.5	7.77	22.1	971
SU4A-1	10/11/2021	Dup	< 2.5	< 2.5	< 2.5	< 5.0	110	4.8	< 2.5	< 2.5	190	< 5.0	< 2.5			
SU4A-2			Well was destroyed in 2018.													
SU4A-3			Well was destroyed in 2018.													
SU4A-4	10/11/2021		< 1.0	< 1.0	< 1.0	< 2.0	5.3	2.0	< 1.0	< 1.0	61	< 2.0	< 1.0	7.44	20.3	838
SU4A-5	10/11/2021		< 2.0	< 2.0	< 2.0	< 4.0	46	4.6	< 2.0	< 2.0	190	< 4.0	< 2.0	8.54	18.4	848
SU4PA-1			Well was destroyed in 2018.													
SU4EWA-1			Well was destroyed in 2018.													
SU4EWA-2			Well was destroyed in 2018.													
B1-Aquifer																
SU4B1-1	10/11/2021		< 2.0	< 2.0	< 2.0	< 4.0	61	6.3	< 2.0	< 2.0	130	< 4.0	< 2.0	8.10	18.4	834
SU4B1-3			Well was destroyed in 2018.													
SU4PB1-1			Well was destroyed in 2018.													
SU4EWB1-1			Well was destroyed in 2018.													
73B1	10/11/2021		< 2.5	< 2.5	< 2.5	< 5.0	71	3.9	< 2.5	< 2.5	170	< 5.0	< 2.5	7.61	21.9	990
84B1			Not sampled, well inaccessible													
B2-Aquifer																
SU4B2-2			Not sampled, biennial schedule.													
73B2	10/11/2021		< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	7.73	22.6	890

Notes and Abbreviations:

1,1,1-TCA = 1,1,1-trichloroethane
 1,1-DCA = 1,1-dichloroethane
 1,1-DCE = 1,1-dichloroethene
 California MCLs = State of California maximum contaminant levels, California Code of Regulations, Title 26.
 cis-1,2-DCE = cis-1,2-dichloroethene
 CFC-11 = trichlorofluoromethane
 CFC-113 = trichlorotrifluoroethane
 Cond = conductivity (µmhos/cm)
 Dup = duplicate sample
 PCE = tetrachloroethene
 TCE = trichloroethene
 Temp = temperature (°C)
 trans-1,2-DCE = trans-1,2-dichloroethene
 ug/l = micrograms per liter
 VC = vinyl chloride
 "<" = Not detected below the laboratory reporting limit.
 NM = not measured

Table 2-3a
Groundwater Analytical Results
SMP Samples, Q3/Q4 2021
CSOU, Subunit 1
 Mohawk Laboratories
 Sunnyvale, California

Well ID	Aquifer Zone	Date Sampled	Purge Method	Contaminants of Interest in Groundwater												
				PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCA (µg/L)	VC (µg/L)	CB (µg/L)	1,2-DCB (µg/L)	1,3-DCB (µg/L)	1,4-DCB (µg/L)	TPHd (C8-C26) (µg/L)	TOC (mg/L)	
Short-Term Cleanup Standard				420	1,800	17,000	NE	NE	NE	NE	NE	NE	NE	NE	NE	
ONSITE WEST AREA																
PBMW-08	A1	10/27/2021	PURGE	ND<0.50	ND<0.50	42	ND<0.50	ND<0.50	81	80	6.4	4.1	25	--	--	
PBMW-09	A1	10/27/2021	PURGE	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.99	2.2	ND<0.50	0.81	ND<0.50	ND<0.50	--	--	
PBMW-10	A1	10/27/2021	PURGE	ND<21	ND<21	ND<21	ND<21	ND<21	ND<21	2,600	ND<21	ND<21	ND<21	--	--	
PBMW-12	A2	10/27/2021	PURGE	770	460	32,000	ND<420	ND<420	4,000	ND<420	ND<420	ND<420	ND<420	--	--	
		10/27/2021	PURGE, DUP	600	ND<420	28,000	ND<420	ND<420	3,700	ND<420	ND<420	ND<420	ND<420	--	--	
PBMW-14	A2	10/27/2021	PURGE	ND<53	ND<53	1,300	ND<53	ND<53	1,400	53	ND<53	ND<53	ND<53	--	--	
KIFER TO CENTRAL AREA																
Atlas Heater Area																
BC-12	A1	10/27/2021	PURGE	ND<0.50	ND<0.50	120	5.6	ND<0.50	110	68	8.3	2.7	14	--	--	
Atlas to Central Area																
PZ-17B	A1	10/27/2021	PURGE	46	34	360	5.2	ND<4.2	95	120	6.8	ND<4.2	ND<4.2	--	--	
IP26A1	A1	10/27/2021	PURGE	100	94	230	8.1	ND<4.2	ND<4.2	95	48	ND<4.2	5.8	--	--	
IP26A2	A2	10/27/2021	PURGE	51	66	240	7.1	4.4	38	96	56	4.5	19	--	--	
RCW-01B	A1	10/27/2021	PURGE	ND<110	300	8,200	220	ND<110	470	ND<110	ND<110	ND<110	ND<110	1,090	--	
CENTRAL EXPRESSWAY PERMEABLE REACTIVE BARRIER (PRB) AREA																
PZ-1006B	A1	10/26/2021	PDB	42	16	29	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	--	--
PZ-1006C	A2	10/26/2021	PDB	37	29	820	25	ND<5.3	18	ND<5.3	ND<5.3	ND<5.3	ND<5.3	--	--	
PZ-1009A	A1	10/26/2021	PDB	61	49	130	5.8	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	--	--	
PZ-1009B	A2	10/26/2021	PDB	500	340	1,200	38	ND<11	ND<11	56	140	ND<11	13	--	--	
PZ-1015C	A1	10/26/2021	PDB	34	38	43	3.5	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	--	--	
PZ-1024B	A1	10/26/2021	PDB	5.9	3.3	13	ND<0.50	ND<0.50	3.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
PZ-1024C	A2	10/26/2021	PDB	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-N02 (A1)	A1	10/26/2021	PDB	ND<2.1	ND<2.1	78	ND<2.1	ND<2.1	10	2.8	ND<2.1	ND<2.1	ND<2.1	--	--	
PRB-N02 (A2)	A2	10/26/2021	PDB	ND<2.1	ND<2.1	100	ND<2.1	ND<2.1	18	4.3	ND<2.1	ND<2.1	ND<2.1	--	--	
PRB-N04	A1	10/26/2021	PDB	2.6	6.3	48	1.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
	A1	10/26/2021	PDB, DUP	1.9	5.8	47	1.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-N05	A1	10/26/2021	PDB	35	21	4.3	1.6	0.63	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
	A1	10/26/2021	PDB, DUP	37	21	4.4	1.7	0.61	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-E01	A1	10/26/2021	PDB	17	22	90	ND<4.2	ND<4.2	ND<4.2	7.3	ND<4.2	ND<4.2	ND<4.2	--	--	
PRB-E02	A1	10/26/2021	PDB	3.4	2.7	2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-MW01 (A1)	A1	10/26/2021	PDB, S	55	40	130	2.9	0.61	0.78	14	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-MW01 (A2)	A2	10/26/2021	PDB, D	40	37	130	2.7	0.57	1.1	13	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-MW02 (A1)	A1	10/26/2021	PDB, S	0.53	4.7	46	1.7	ND<0.50	0.99	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
PRB-MW02 (A2)	A2	10/26/2021	PDB, D	0.62	4.4	42	1.6	ND<0.50	0.80	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	

Table 2-3a
Groundwater Analytical Results
SMP Samples, Q3/Q4 2021
CSOU, Subunit 1
 Mohawk Laboratories
 Sunnyvale, California

Well ID	Aquifer Zone	Date Sampled	Purge Method	Contaminants of Interest in Groundwater											
				PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCA (µg/L)	VC (µg/L)	CB (µg/L)	1,2-DCB (µg/L)	1,3-DCB (µg/L)	1,4-DCB (µg/L)	TPHd (C8-C26) (µg/L)	TOC (mg/L)
Short-Term Cleanup Standard				420	1,800	17,000	NE	NE	NE	NE	NE	NE	NE	NE	NE
CENTRAL TO ARQUES AREA															
E-01	A1	10/26/2021	PDB	27	26	3.5	0.73	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
E-02	A1	10/26/2021	PDB	9.1	26	8.1	3.0	0.69	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
E-03	A1	10/26/2021	PDB	3.2	46	7.4	0.84	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
MW-16	A1	10/26/2021	PDB	43	180	240	9.4	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	--
WA-11	A1	10/26/2021	PDB	ND<0.50	9.4	77	2.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NORTH OF ARQUES AREA															
MW-09 (DeGuigne)	A1	10/26/2021	PDB	ND<0.50	3.3	6.6	1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-001	A1	10/26/2021	PDB	15	23	3.8	1.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-003	A1	10/26/2021	PDB	2.6	4.2	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-005	A1	10/26/2021	PDB	ND<0.50	3.0	12	0.87	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-006	A1	10/26/2021	PDB	8.4	36	4.2	1.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
	A1	10/26/2021	PDB, DUP	8.8	36	4.0	1.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-007	A1	10/26/2021	PDB	24	48	5.2	2.9	0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-009	A1	10/26/2021	PDB	ND<0.50	38	14	0.88	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
NMW-12B	A1	10/26/2021	PDB	ND<0.50	7.7	27	0.99	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--
46-S	A1	10/26/2021	PDB	1.1	11	4.8	1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--

Notes:

Laboratory performed analysis for halogenated volatile organic compounds (VOCs)
 Detections at or above short-term groundwater cleanup standards are shown in bold
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 PURGE = standard 3-volume purging method
 DUP = duplicate sample
 -- = not sampled or not applicable
 ND = not detected at or above the indicated laboratory reporting limit
 NE = not established

PCE = tetrachloroethene
 TCE = trichloroethene
 DCE = dichloroethene
 DCA = dichloroethane
 VC = vinyl chloride
 CB = chlorobenzene
 DCB = dichlorobenzene
 TPHd (C8-C26) = total petroleum hydrocarbon, C8-C26 carbon range
 TOC = Total organic carbon

Appendix H – Waste Manifests – 2021

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number NOT APPLICABLE 2. Page 1 of 2 3. Emergency Response Phone 415-533-0112 4. Waste Tracking Number 825 STEWART_001

5. Generator's Name and Mailing Address: Northrop Grumman One Space Park Redondo Beach CA 90278 Generator's Site Address (if different than mailing address): 825 Stewart Drive Sunnyvale CA 94085
 Att: Joshua Nandi
 Generator's Phone: 310 332-1439

6. Transporter 1 Company Name: NAMAN TRUCKING, INC. U.S. EPA ID Number: CAZ000154740

7. Transporter 2 Company Name: Industrial Services U.S. EPA ID Number: MLK435642742

8. Designated Facility Name and Site Address: US Ecology Nevada Hwy 95, 11 Miles South of Beatty Beatty NV 89003 U.S. EPA ID Number: NVT330010000
 Facility's Phone: 800 239-3943

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-Hazardous, Non DOT Regulated, Waste, Liquid (Water)	0001	DM	0020	G
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: G.I. - Groundwater / Decon Water - Profile # 070137747-17340
 wof 1348600

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Generator's/Offor's Printed/Typed Name: Jennifer Clay on behalf of Northrop Grumman Signature: [Signature] Month: 11 Day: 15 Year: 21

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Guillermo Ruiz Signature: [Signature] Month: 11 Day: 15 Year: 21
 Transporter 2 Printed/Typed Name: Steven Woodard Signature: [Signature] Month: 11 Day: 15 Year: 21

17. Discrepancy 17a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number:
 Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:
 H039

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: [Name] Signature: [Signature] Month: 12 Day: 1 Year: 21