NORTHROP GRUMMAN

Transmittal

Date: May 6, 2020

To: Michael Schulman
Remedial Project Manager, Superfund Division
U.S Environmental Protection Agency Region 9
75 Hawthorne Street, SFD-7-1
San Francisco, CA 94105

From: Shantal Der Boghosian, Environmental Remediation Project Manager
Northrop Grumman Systems Corporation
One Space Park
Mail Stop: NGC CER-XE6D21
Redondo Beach, CA 90278

Subject/Title: Annual Groundwater Monitoring and Five-Year Status and Effectiveness Evaluation Report
Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, CA

CC: Rebecca Mora, AECOM
Holly Holbrook, AECOM
Jennifer Clay, GES

Northrop Grumman System Corporation is submitting the above-referenced

	For your review and comment
X	For your information and file
	For your approval
	For your signature

Total number of copies sent: 1

Remarks:

If you have any questions or comments regarding the enclosed report, please feel free to call Shantal Der Boghosian at 310-332-7612.

ED_013761_00001459-00001

AECOM

ANNUAL GROUNDWATER MONITORING AND FIVE-YEAR STATUS AND EFFECTIVENESS EVALUATION REPORT

JANUARY 2014 TO DECEMBER 2018

FORMER TRW MICROWAVE SITE
825 STEWART DRIVE
SUNNYVALE, CALIFORNIA

May 2020

ANNUAL GROUNDWATER MONITORING AND FIVE-YEAR STATUS AND EFFECTIVENESS EVALUATION REPORT

FORMER TRW MICROWAVE SITE
825 STEWART DRIVE
SUNNYVALE, CALIFORNIA

May 6, 2020

Prepared by:

AECOM
999 W. Town and Country Road
Orange, CA 92868-4713

Holly Holbrook
Project Engineer

Ben Loebner, PG. 6623
Project Geologist

PROFESSIONAL GEOLOGIST
Benny J. Loebner
No. 6623
STATE OF CALIFORNIA

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 BACKGROUND 1

2.1 Site Location 1
2.2 Operational History 1
2.3 Geology and Hydrogeology 2
2.3.1 Regional Geology and Hydrogeology 2
2.3.2 Site Geology and Hydrogeology 3
2.3.3 Groundwater Movement 3
2.4 Groundwater Monitoring Well Network 4
2.5 Regulatory and Remediation History 4
2.6 Potential Receptors 9

3.0 SUMMARY OF REMEDIATION ACTIVITIES SINCE JANUARY 2014 9

3.1 Continued Suspension of Groundwater Extraction and Treatment System 10
3.2 Additional MIP Investigation 10
3.3 Installation of Sub-Slab Vapor Collection System 10
3.4 Source Area Excavation and Well Destruction 10
3.5 Additional EAB Injection Activities 11
3.6 Vapor Intrusion Evaluation 11
3.7 Background Water Quality Evaluation 11
3.8 Well Installation 12
3.9 Continued Groundwater Monitoring Program 13
3.9.1 Water-Level Elevations 13
3.9.2 Groundwater Analytical Results 14
3.9.2.1 Site Zone A and Zone B1 Upgradient Wells 14
3.9.2.2 Site Zone A and Zone B1 Downgradient Wells 16
3.9.2.3 Site Zone B2 Wells 18

4.0 REMEDIATION EFFECTIVENESS EVALUATION 18

4.1 Effectiveness of Groundwater Extraction and Treatment System 19
4.2 Enhanced Anaerobic Bioremediation Program 20

5.0 CONCLUSIONS AND RECOMMENDATIONS 22

6.0 REFERENCES 22

TABLES

1 Well Completion and Sampling Information
2 Water-Level Elevation Measurements - October 2018
3 2018 Groundwater Volatile Organic Compound Results
4 2018 Groundwater General Environmental Parameter Results

FIGURES

1 Site Location
2 Site Layout and Well Locations
3 Previous Remedial Activities
4 Potentiometric Surface Contours, Zone A – October 2018
5 Potentiometric Surface Contours, Zone B1, HSUs 1 and 2 – October 2018
6 Potentiometric Surface Contours, Zone B1, HSU 3 – October 2018
7 Potentiometric Surface Contours, Zone B2 – October 2018
8 VOC Results – Zone A
9 VOC Results – Zone B1
10 VOC Results – Zone B2
11 TCE Concentrations vs. Time – Wells T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A
12 cDCE Concentrations vs. Time – Wells T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A
13 TCE Concentrations vs. Time – Wells T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, and T-17B
14 TCE Concentrations vs. Time – Wells T-2C, T-10C, T-11C, and T-12C
15 Chlorinated Ethene Concentrations, Zone A – October 2018

APPENDICES

Appendix A Standard Groundwater Sampling Procedures and Low-Flow Sampling Logs
Appendix B Historical Water-Level Elevation Measurements
Appendix C Historical Groundwater Analytical Results
Appendix D Chlorinated Ethene Concentration Trend Plots for Selected Wells
Appendix E Analytical Laboratory Reports and Chain-of-Custody Forms – 2018

1.0 INTRODUCTION

This Annual Groundwater Monitoring and Five-Year Status and Effectiveness Evaluation Report (report) presents the results of the groundwater monitoring program in 2018 and summarizes the remedial activities performed at the site over the past five-year period (January 2014 through December 2018) by Northrop Grumman Systems Corporation (Northrop Grumman) in 2018 at the former TRW Microwave Site (site) in Sunnyvale, California (Figure 1). 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 RWQCB (RWQCB, 1999) including Non-Pumping Conditions (NPC) evaluation (RWQCB, 2001a).

2.0 BACKGROUND

This section provides background information for the site including its location and description, historical use, and listing of important previous investigations conducted as a part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process.

2.1 Site Location

The former TRW Microwave site is located at 825 Stewart Drive in Sunnyvale, California, about 50 miles southeast of San Francisco, California. A site location map showing the well locations is presented on Figure 2.

The TRW Microwave Operable Unit (OU) is surrounded by the following sites that are impacted by volatile organic compounds (VOCs): Advanced Micro Devices (AMD) Buildings 901/902 Thompson Place and 915 DeGuine Drive; Philips Semiconductors (Philips; formerly Signetics Inc.) Buildings 811 Arques, 815 Stewart Drive, and 440 Wolfe Road; and Mohawk Laboratories. Three of these facilities (AMD 901/902, Philips 811, and Mohawk Laboratories) are located hydraulically upgradient (south) of the TRW Microwave OU; two facilities (Philips 815 and 440) are located approximately cross-gradient (west) of the site, and one facility (AMD Building 915) is located downgradient (north) of the site. These surrounding sites have historically used trichloroethene (TCE) and other chlorinated VOCs in their manufacturing processes and VOCs entered groundwater. AMD, Northrop Grumman, and Philips (the Three Companies) share responsibility for the management and remediation of the commingled groundwater plume, defined as the Three Companies Offsite Operable Unit (OOU).

2.2 Operational History

Prior to 1968, the site was not used for industrial activities. From 1968 to 1974, Aertech Industries (Aertech) assembled and tested microwave and semiconductor components at the site. In 1974, TRW Inc. (TRW) acquired the site from Aertech and in 1987 FEI Microwave purchased it from TRW. FEI Microwave subsequently became Tech Facility 1, Inc. During these changes in site ownership, operations were continuous, with no significant process changes from 1968 to 1993.

ED_013761_00001459-00006

In 1993, FEI Microwave stopped production, and in 1995 the site was acquired by Stewart Associates. The site was subsequently leased to Diablo Research Corporation, a contract research and development company. Diablo Research Corporation occupied the site until August 2000, when Cadence Inc. leased the site and continued research and development operations. The building was unoccupied after January 2001 (CDM 2009a). Between 2001 and 2003, the site building exterior was remodeled. As part of this remodeling, a portion of the site building was demolished and a new structure, contiguous with the existing structure was constructed.

In December 2002, TRW merged with Northrop Grumman. In 2004, the property was purchased by Pacific Landmark. The building was renovated in 2014 and is currently leased as a commercial property. During these changes in site ownership, TRW, and then Northrop Grumman, retained responsibility for site cleanup. During operations at the site between 1968 and 1993, TCE and other industrial solvents were used, and hazardous wastes were generated as a byproduct of the operations. Waste solvent composed mainly of TCE was stored in an underground storage tank (UST) from 1970 through 1982. The tank was removed in early 1983. Figure 2 presents the location of the former UST as well as remedial activities conducted to date. An in-ground three-stage ammonia gas acid neutralization system (ANS) operated from 1968 to 1984 after which it was disconnected, removed, and replaced by an aboveground system with secondary containment. The aboveground ANS was disconnected and removed in 2001, during remodeling of the site building (CDM, 2009a).

2.3 Geology and Hydrogeology

2.3.1 Regional Geology and Hydrogeology

The site is located in the Santa Clara Valley, a structural basin bounded by the Santa Cruz Mountains to the south and west and San Francisco Bay to the north. The basin is filled with Quaternary-age alluvial sediments that were derived from the Santa Cruz Mountains and deposited along northward-trending ancestral streams enroute to the San Francisco Bay. The depositional environment was characterized by meandering and braided stream systems that created sequences of coarse-grained sand and gravel units interbedded with fine-grained clay and silt deposited during fluctuations in the ancestral San Francisco Bay (CDM 2000a).

Regionally, the alluvial sediments in the site area have been divided into two broad hydrogeologic intervals or zones, referred to as the upper aquifer zone and the lower aquifer zone. These two zones are separated by an extensive clay and silt aquitard that generally occurs at depths beginning at about 100 feet below ground surface (bgs). Numerous coarse-grained sand and gravel units have been identified in the upper and lower aquifer zones, and these water-yielding zones have been shown to roughly correlate throughout the area.

The upper aquifer zone consists of two water-yielding zones, designated as Zones A and B while the lower aquifer zone is designated Zone C. Zone A occurs within the interval from the water table to a depth of about 25 feet bgs. Zone B consists of five sub-zones (Zones B1 through B5) encountered at approximately 30 feet bgs to 100 feet bgs. Drinking water aquifers occur below 150 feet bgs in the lower aquifer zone or Zone C. Studies at the site have not been conducted below Zone B (CDM 2000a).

ED_013761_00001459-00007

2.3.2 Site Geology and Hydrogeology

The site stratigraphy consists predominantly of clay and silty clay inter-bedded with coarser lenses of sands and gravels. Six water-yielding zones, Zone A and Zones B1 through B5, have been identified beneath the site or in the surrounding area. 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. Onsite VOC impact has been shown to be present in Zones A, B1, and B2. Zones B3 and B4 have not been shown to contain VOCs beneath the site, indicating that the aquitard separating Zones B2 and B3 is continuous and sufficiently impermeable to prevent the vertical migration of VOCs.

This historic representation of depth-dependent zones presumes that the hydrostratigraphy is sheet-like. However, the current conceptual site model (CSM) developed using environmental sequenced stratigraphy (ESS) is based on the fluvial depositional environment of the sediments encountered. Each water-yielding zone consists of multiple hydrostratigraphic units (HSUs) defined by channel sands which may not be hydraulically connected. These HSUs have implications when interpreting groundwater elevation data and contaminant chemistry data based on the zonation terminology.

The ESS evaluation mapped out HSUs defined by subsurface stream channel deposits underlying the site that serve as primary groundwater flow and contaminant migration pathways. A detailed summary of the ESS methodology and conclusions of the geologic evaluation are included in the Addendum to the Technical Memorandum in Response to the 2014 Five-Year Review Report (AECOM, 2016a). These pathways are shown on Figure 4 (Zone A), Figures 5 and 6 (Zone B1), and Figure 7 (Zone B2). Two HSUs were mapped in Zone B1 during the initial ESS evaluation, one of which traces back to the onsite source area (referred to as HSU1), and another deeper unit which is oriented obliquely to the presumed groundwater gradient (referred to as HSU2) and is interpreted as a contaminant pathway from offsite sources. The results of a combination membrane interface probe (MIP) and hydraulic profiling tool (HPT), referred to as MiHPT, survey performed in July 2016 confirmed and further refined the results of the previous ESS evaluation and resulting CSM. The survey identified a third separate HSU in Zone B1, located at a shallower depth than previously mapped HSU1 and HSU2, referred to as HSU3. This HSU was then mapped across the site (Figure 6). Based on Hydropunch™ sampling results, significantly more mass of both TCE and cis-1,2-dichloroethene (cDCE) than were previously identified, based on monitoring results from well T-7B (screened in HSU2), are migrating onto the site at the southern site boundary. A more detailed evaluation of Zone A and the HSUs in Zone B1 was conducted in 2019 using all of the data collected during previous investigations as well as recently installed wells in the vicinity of well T-9B, further refining the HSUs (AECOM, in prep).

2.3.3 Groundwater Movement

Regional groundwater movement for the three monitored zones beneath the site (A, B1, and B2) has historically been to the north or the north-northeast. However, groundwater extraction at off-site locations adjacent to the site has substantially influenced the groundwater movement, particularly in Zones B1 and B2 (CDM 2009a). Potentiometric surface contours generated for Zones A, B1, and B2 using the October 2018 water-level elevation data are presented on Figures 4, 5, 6 and 7, respectively.

The ranges of hydraulic conductivities reported in previous reports (WA 1996b and CDM 2000c) for Zones A and B1/B2 are 356 to 400 feet per day and 25 to 150 feet per day, respectively. The ranges of groundwater flow velocities reported in previous reports (WA 1996b and CDM 2000a) for Zones A and B1/B2 are 15 to 22.5 feet per day and 1.25 to 7.5 feet per day, respectively.

2.4 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 2004, wells T-1A and T-1B were abandoned with permission from RWQCB (CDM, 2004 and RWQCB, 2004a). As discussed in the 2014 annual report (AECOM, 2015a), 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. Figure 2 shows the site layout and existing well locations (as of October 2017).

2.5 Regulatory and Remediation History

A chronology of major events associated with site subsurface investigations and actions since March 2004 is presented below:

Date	Event
March 2004	Northrop Grumman submitted a work plan to install and operate a temporary mechanical ventilation system prior to collecting additional indoor air samples within the site building (CDM 2004d).
April 2004	Subsequent to Water Board approval (Water Board 2004c), CDM installed and operated a temporary mechanical ventilation system within the site building and collected indoor air samples in order to determine the effectiveness of ventilation on reducing concentrations of VOCs to acceptable levels.
May 2004	Northrop Grumman submitted the *Report of Findings – Installation and Operation of a Temporary Mechanical Ventilation System and Indoor Air Sampling* report to the Water Board. In this report, CDM concluded that the rate of vapor intrusion into the site building appeared to be low enough to be mitigated solely with operation of a standard ventilation system (CDM 2004c).
June 2004	Northrop Grumman submitted evidence to the Water Board regarding re-designation of site well 36D as a Zone A well rather than a Zone B1 well (CDM 2004e).

Date	Event
July 2004	Water Board requested that "if the site building is not occupied by October 2004,…. another round of indoor air samples be collected without mechanical ventilation to determine if improvements in groundwater quality reduced vapor intrusion to a level that does not require further monitoring" (Water Board 2004d).
August 2004	Water Board approved the re-designation of site well 36D as a Zone A well rather than a Zone B1 well (Water Board 2004e).
September 2004	In response to the Water Board request, Northrop Grumman submitted a work plan to conduct an additional round of indoor air sampling without mechanical ventilation (CDM 2004f). As part of its Multi-site Cooperative Agreement (MSCA) with USEPA, the Water Board submitted Five-Year CERCLA Review report to USEPA and recommended that Northrop evaluate the feasibility of expanding enhanced anaerobic bioremediation (EAB) into the area where VOC concentrations still exceeded SCRs, and consider implementing in situ bioremediation as the final remedy for the site. The Water Board noted that the ROD (USEPA 1991) would need to be amended, if there is a permanent change in remedy from GWET to in situ bioremediation (Water Board 2004b). The USEPA approved the report the same month (USEPA 2004).
October 2004	Subsequent to Water Board approval of the work plan (Water Board 2004f), Northrop Grumman conducted another round of indoor air sampling without a mechanical ventilation system in operation.
November 2004	Northrop Grumman submitted the *Report of Findings – October 2004 Indoor Air Sampling* report to the Water Board. In this report, CDM concluded that mitigation of indoor VOC concentrations to below threshold levels could be achieved with operation of a standard ventilation system (CDM 2004g).
December 2004	Water Board approved the October 2004 Indoor Air Sampling Report (Water Board 2004g). The Water Board recommended that adequate ventilation be maintained in the site building in order to minimize risk to the health of building occupants and requested an additional round of indoor air samples be collected from the building before it is reoccupied. The Water Board also requested that Northrop Grumman prepare a Risk Management Plan (RMP) that would guide the future management of human health risks associated with occupancy of the site, with particular emphasis on the vapor intrusion issue (Water Board 2004g).
February 2005	The effectiveness monitoring showed that the EAB application increased the rate of chlorinated VOC biodegradation occurring within the former site source area and ~~also~~ accelerated VOC attenuation rates across the downgradient portions of the site.

Date	Event
April 2005	Northrop Grumman submitted a preliminary draft RMP to the Water Board (CDM 2005a) that is to be finalized after installation of a permanent ventilation system and the intended use of building is identified by property owner.
August 2005	Pursuant to the Water Board's recommendations in the 2004 MSCA review, and subsequent to Water Board approval, the EAB pilot program was expanded to include groundwater immediately downgradient of the former site source area (around wells T-8A, T-8B, and T-10B) (CDM 2005b and Water Board 2005).
September 2005	As part of the EAB expansion, four additional Zone A wells, T-13A, T-14A, T-15A, and T-16A, and one additional Zone B1 well T-17B, were installed at the site (Northrop Grumman 2006).
April 2006	Pursuant to the Water Board's recommendations in the 2004 MSCA review, Northrop Grumman submitted the Revised Proposed Plan (CDM 2006) to the USEPA to change the groundwater remedy from GWET to in situ bioremediation.
July 2006	Water Board issued a letter to USEPA in which they concurred with conclusions of the Revised Proposed Plan and recommended to USEPA to change the groundwater remedy for the site from GWET to in situ bioremediation (Water Board 2006).
January 2007	EAB performance monitoring showed that EAB continued to improve the groundwater quality and enhance VOC degradation in and around the former site source area; however, VOC degradation had slowed at downgradient portions of the plume due to competing electron acceptors (Northrop Grumman 2007).
June 2007	Northrop Grumman submitted a work plan for additional Zone A EAB remediation activities, which proposed to conduct four quarterly cheese whey injections in the expanded portion of Zone A aquifer downgradient of the former site source area (CDM 2007).
August 2007	Subsequent to Water Board approval (Water Board 2007), CDM installed seven injection wells (T-18A to T-24A) and one monitoring well (T-25A) as part of the downgradient Zone A EAB treatment area.
September 2007	Tamalpais Environmental Consultants (TEC), under CDM's oversight, performed the first of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A (Northrop Grumman 2008).
November 2007	CDM performed a one-time bioaugmentation event into wells T-13A, T-14A, and T-18A through T-24A, using groundwater from the Eductor (Northrop Grumman 2008).
December 2007	TEC, under CDM's oversight, performed the second of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A (Northrop Grumman 2008).

ED_013761_00001459-00011

Date	Event
March 2008	TEC, under CDM's oversight, performed the third of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A.
June 2008	TEC, under CDM's oversight, performed the final of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A.
May 2009	Northrop Grumman submitted the third and most recent Five-Year Status and Effectiveness Evaluation Report (Five-Year Report) to the Water Board for the review period from May 2004 through December 2008 (CDM 2009a).
September 2009	The Water Board submitted the third Five-Year CERCLA Review report to the USEPA (Water Board 2009).
September 2009	Northrop Grumman submitted updated revised proposed plan for the USEPA (CDM 2009b). This proposed plan updated the original revised proposed plan submitted in April 2006 (CDM 2006). The objective of this updated revised proposed plan was to change the groundwater remedy at the site to in situ bioremediation with monitored enhanced natural attenuation (MENA).
January 2010	EAB performance monitoring showed significant depletion of electron donor (cheese whey) and initial rebound of competing electron acceptors in the expanded EAB treatment area (AECOM 2010a).
October 2010	AECOM submitted a work plan for additional Zone A EAB remedial activities, which proposed to conduct one emulsified vegetable oil injection and one neat vegetable oil injection in the former site source area excavation (AECOM 2010b).
October 2010	The Water Board approved the work plan (AECOM 2010b) to conduct additional EAB activities at the site (Water Board 2010).
October 2010	AECOM injected emulsified vegetable oil into the Eductor, located in Zone A within the former site source area excavation.
November 2010	Vironex, under AECOM oversight, injected neat vegetable oil into the Eductor, located in Zone A within the former site source area excavation (AECOM 2010c).
November 2011	EHC-L is injected into former cheese-whey injection wells and ABC+ is injected using direct push technology in the downgradient EAB treatment area.
December 2012	6 December 2012 *Requirement for Vapor Intrusion Sampling and Analysis Work Plan and Report* letter from the Water Board (Water Board, 2012).
June 2013	AECOM submits the *Work Plan for Membrane Interface Probe and Remediation Activities at the Former Source Area Excavation* (AECOM, 2013a) to the Water Board.
July 2013	Vironex, under AECOM oversight, performs MIP investigation survey.

Date	Event
August 2013	AECOM submits the *Membrane Interface Probe (MIP) Activities Report* (AECOM, 2013b) to the Water Board.
October 2013	The Water Board approved the *Vapor Intrusion Evaluation Sampling and Analysis Work Plan* (AECOM 2013c) to install sub-slab vapor wells and perform indoor air sampling at the site.
December 2013	Sub-slab vapor wells were installed and sampled and indoor air samples were collected.
March 2014	1,180 gallons of VOC-impacted groundwater were removed from the Eductor using a vacuum truck.
July 2014	An expanded MIP investigation was performed in the vicinity of the Eductor. Results were included in the *Well Destruction and Source Removal Work Plan* (AECOM, 2014a)
August and September 2014	A passive sub-slab vapor collection (SVC) system was installed beneath the concrete floor in accordance with the *Work Plan for Passive Sub-Slab Vapor Collection System Installation* (AECOM, 2014b)
October and November 2014	A targeted excavation of the source area was performed using large-diameter augers to remove approximately 590 tons of soil and 9,000 gallons of water, summarized in the *Source Area Removal Summary Report* (Orion Environmental, Inc., 2015)
October 2014	Wells located within the building (T-2A, T-2B, T-3A) and the Eductor were destroyed to prevent them from serving as potential vapor intrusion pathways.
December 2014	Vironex, under AECOM oversight, injected emulsified vegetable oil (EVO) under building footings in the vicinity of the former source area.
March 2015	AECOM reviewed geological information at the site using environmental sequence stratigraphy (ESS)
May 2015	AECOM performed a vapor intrusion evaluation of the site to confirm the efficacy of the passive SVC (AECOM 2015a)
December 2015	AECOM performed additional vapor intrusion sampling following tenant improvements to verify the efficacy of the passive SVC had not been impacted (AECOM 2016a).
July 2016	A combination MIP and hydraulic profiling tool (HPT) investigation was performed at the site to support and refine the ESS evaluation
August 2017	Five monitoring wells were installed to monitored hydrostratigraphic units (HSUs) identified during the MIP-HPT investigation.
December 2018	An additional nested monitoring well was installed in the vicinity of existing well T-9B.

2.6 Potential Receptors

As required by the Water Board Order, in 1992, TRW and then current property owner, Tech Facility 1, Inc., prepared and recorded a deed restriction for the property to (Tech Facility 1, 1992):

- Prohibit the use of shallow groundwater for drinking water without approval from Water Board and other agencies with jurisdiction, and
- Notify Water Board before well installation.

This deed restriction continues to be in effect and protects potential human receptors from contacting impacted groundwater at the site. Per the recommendations in the previous Five-Year Review, the current legal owners of the former TRW Microwave property should record a new restrictive covenant that is consistent with current California law (California Civil Code section 1471, which establishes the framework for environmental covenants in California).

A database search was performed at the SCVWD in January 2000 to locate potential receptors or conduits (i.e., groundwater production wells) within 0.5 mile of the site. Based on the information provided to CDM by the SCVWD and review of previous reports, the nearest public water well (SCVWD #274) is located more than 2,000 feet north and downgradient of the site. The well is screened in the lower aquifer, Zone C, approximately 250 feet below ground surface. As no contamination is identified in Zone B4 and the upper and lower aquifers (i.e., from Zone B to Zone C) are separated by an appreciable aquitard, it is unlikely that contamination from the shallow aquifer at the site has or will impact the public water well (HLA, 1991b). In addition, an internet search performed on the Water Board's Geotracker website (http://geotracker.waterboards.ca.gov) in January 2020 did not show any supply wells downgradient of the site.

To protect potential downgradient receptors, the Three Companies (Northrop Grumman, AMD, and Philips) contribute to the hydraulic containment of impacted groundwater within the defined OOU, downgradient of the Former TRW Microwave, AMD, and Philips sites. The OOU extracts groundwater from a set of wells downgradient of the three companies' sites that prevent the migration of VOC-impacted groundwater beyond (north of) Highway 101.

As noted above, a passive sub-slab vapor collection system was installed in 2014, prior to occupation of the building. Subsequent sampling of the system, both before and after tenant renovations were performed in the building, confirmed the efficacy of the passive SVC system (AECOM, 2016a).

3.0 SUMMARY OF REMEDIATION ACTIVITIES SINCE JANUARY 2014

Prior to January 2009, TRW, and then Northrop Grumman, conducted numerous subsurface investigations to analyze the origin and distribution of VOC impacts at the site, and implemented several actions to remove VOCs and monitor their removal. These activities were presented in detail in the first, second, third, and fourth Five-Year Reports (WA, 1996a; CDM, 2001a, 2009a; AECOM, 2014a) and in the 2004 MSCA review (Water Board, 2004b).

Since January 2014, remediation activities conducted at the site have included: continued suspension of the GWET system, continuation of the groundwater monitoring program (including installation of seven new monitoring wells), continued operation and monitoring of the EAB program, a membrane interface probe (MIP) investigation in the former site source area, installation of a passive sub-slab vapor collection system (SVC) and indoor air and sub-slab vapor sampling. During calendar year 2018, AECOM, on behalf of Northrop Grumman, conducted the annual groundwater monitoring event and installed a nested well pair to evaluate contaminant migration pathways in the vicinity of well T-9B.

3.1 Continued Suspension of Groundwater Extraction and Treatment System

GWET at the site has been suspended since April 2001. Although groundwater extraction at the site had been suspended, Northrop Grumman (and formerly TRW) has continued to monitor groundwater on an annual basis across the site and on a semi-annual basis for selected wells within the EAB treatment area. Northrop Grumman submits monitoring reports to the Water Board annually (AECOM 2010a, 2011a, 2012, 2013d, and 2014f). Results from groundwater monitoring performed from 2009 through 2013 continue to support suspension of groundwater extraction at the site. In particular, suspension of groundwater extraction should be continued so as not to interfere with the capture of offsite plume sources by the Philips 815 groundwater extraction. In line with this discussion, and because the GWET system had not been operated in over 11 years, it was removed from the site in November 2012 with concurrence from the Water Board.

3.2 Additional MIP Investigation

In July 2014, an expanded MIP investigation was performed in accordance with the Water Board approved Work Plan for Additional Membrane Interface Probe (MIP) Investigation (AECOM, 2014a) to supplement a previous MIP investigation conducted in 2013. The goal of the investigation was to identify the location of elevated-concentration material to later guide excavation efforts. Results of the MIP investigation indicated that elevated concentration VOC-impacted material remained within the original excavation, southwest of the Eductor. A complete description of the MIP investigation results was included in the Well Destruction and Source Removal Work Plan (AECOM, 2014b).

3.3 Installation of Sub-Slab Vapor Collection System

In August and September 2014, a passive sub-slab vapor collection (SVC) system was installed beneath the concrete floor of the entire building in accordance with the Work Plan for Passive Sub-Slab Vapor Collection System Installation (AECOM, 2014c). The purpose of the SVC system is to passively collect sub-slab vapors below the building and vent them to the atmosphere as a protective measure against vapor intrusion.

3.4 Source Area Excavation and Well Destruction

In October and November 2014, a targeted excavation of the source area was performed in accordance with the Well Destruction and Source Removal Work Plan (AECOM, 2014b). The excavation was performed using large-diameter augers to remove contaminated material. The extent of the excavation was guided by the results of the MIP investigation as well as additional confirmation soil borings. Based on the results of confirmation soil borings, the extent of the excavation was expanded, as explained in the Work Plan Addendum for Source Area Removal

Activities (AECOM, 2014d). A total of approximately 590 tons of soil and semi-solids and approximately 9,000 gallons of water were removed from the source area. A detailed description of excavation activities at the site will be provided in the Source Area Removal Summary Report (Orion Environmental Inc., 2015).

Concurrently with source area excavation activities, all wells within the building (T-2A, T-2B, T-2C, and T-3A) and the Eductor were destroyed via over-drilling per the Well Destruction and Source Removal Work Plan (AECOM, 2014b). These wells were removed to prevent them from serving as a potential vapor intrusion pathway once the building was occupied following redevelopment activities conducted by the new owner.

3.5 Additional EAB Injection Activities

Following source area excavation, and in accordance with the Work Plan for Additional Source Area Injection Activities (AECOM, 2014e), EAB injections were used to address remaining contamination that was not accessible during excavation. The majority of the injection activities targeted the area under the building footing, immediately east of the former Eductor, where excavation was not possible. A directional injection tool was used to focus distribution of EAB amendments (EVO, buffer, bioaugmentation culture, and anoxic water) under the footing. In addition, EAB amendments were injected below the excavation in an area southwest of the former Eductor. This area had been excavated to approximately 20 feet bgs with the large-diameter augers and backfilled; however, a grab groundwater sample collected after excavation activities from between 28 feet and 30 feet bgs contained elevated concentrations of VOCs.

3.6 Vapor Intrusion Evaluation

In May 2015, three sub-slab and five indoor air samples were collected to evaluate the VI pathway under current site conditions, evaluate the efficacy of the passive SVC system installed in late 2014, and support attainment of a certificate of occupancy from the City of Sunnyvale after evaluation of analytical results. Based on the results of this sampling event, chemicals detected in indoor air do not pose a human health risk under an industrial exposure scenario (AECOM, 2015b). However, USEPA stated that if tenant improvements that penetrate the concrete slab were performed after the May 2015 sampling event, additional VI sampling would need to be performed to confirm that these activities did not create new VI conduits.

To confirm that chemicals in indoor air still did not pose a risk under an industrial scenario following tenant improvements, the building tenant performed an additional monitoring event in December 2015 utilizing the same sampling methodology as the May 2015 sampling event and adjusting the sampling location rationale based on the final building layout. The results of this sampling were presented by the building tenant to USEPA in a separate report submitted in February 2016 (AECOM, 2016b).

3.7 Background Water Quality Evaluation

During 2015, a technique referred to as Environmental Sequence Stratigraphy (ESS), was used to identify and map subsurface stream channel systems (or hydrostratigraphic units [HSUs]) in the vicinity of the site that serve as primary groundwater flow and contaminant migration pathways. These pathways are shown on Figure 4 (Zone A), Figures 5 and 6 (Zone B1), and Figure 7 (Zone B2). Two HSUs were mapped in Zone B1 during the initial ESS evaluation, one

of which traces back to the onsite source area (referred to as HSU1), and another deeper unit which is oriented obliquely to the presumed groundwater gradient (referred to as HSU2) and is interpreted as a contaminant pathway from offsite sources (Figure 5). In addition, the screen interval for well T-9C, previously designated as a Zone B2 well, was reexamined and the designation of the well was changed from Zone B2 to Zone B3. A detailed summary of the methodology and conclusions of the geologic evaluation are included in the Technical Memorandum in Response to the 2014 Five-Year Review Report (AECOM, 2015b) and the Addendum to the Technical Memorandum in Response to the 2014 Five-Year Review Report (AECOM, 2016a).

In July 2016, a combination MIP and hydraulic profiling tool (HPT), referred to as MiHPT, was advanced at eight locations along the southern and western site boundaries. Hydropunch™ groundwater samples were collected from channels identified by the MiHPT survey and analyzed for VOCs. The purpose of the investigation was to evaluate contaminant migration pathways at the site by further refining the previously created ESS CSM.

The results of the MiHPT survey confirmed and further refined the results of the previous ESS evaluation and resulting CSM. The survey identified a third separate HSU in Zone B1, located at a shallower depth than previously mapped HSU1 and HSU2, referred to as HSU3. This HSU was then mapped across the site (Figure 6). Based on Hydropunch sampling results, significantly more mass of both TCE and cis-1,2-dichloroethene (cDCE) than were previously identified, based on monitoring results from well T-7B (screened in HSU2), are migrating onto the site at the southern site boundary. Based on these results, installation of additional monitoring wells were proposed in Zone B1 in HSU3 (AECOM, in preparation). Detailed results are reported in the Background Water Quality Evaluation Report (AECOM, 2016b).

3.8 Well Installation

Based on the data gaps identified after the survey, five new monitoring wells were installed at the site in August 2017 (shown on Figure 2 and screen intervals listed on Table 1). Well T-20B was installed at the southern property boundary to screen the newly identified HSU3. Well T-21B was installed in HSU3 at the western property boundary, cross gradient from the former source area.

The other three new monitoring wells were installed in the vicinity of well T-9B, which was previously identified as being screened across multiple HSUs. An initial continuous core borehole was drilled at the north end of the site in the vicinity of well T-9B to evaluate the geology and locate the three previously identified HSUs. Hydropunch samples were then collected from each of the three identified HSUs and sent to an offsite laboratory for analysis of VOCs. The analytical results appeared to confirm the interpretation of the geology. Therefore, three wells were installed (T-22B, T23B, and T-24B) with the screened intervals each targeting HSUs 1, 2, and 3. Detailed information regarding well installation procedures is included in the Well Installation Report (AECOM, 2018).

Based on comments received from USEPA on the Well Installation Report, additional investigation was performed in the vicinity of well T-9B. Three continuous boreholes were drilled and Hydropunch samples were collected from each of the observed HSUs in each boring. Based on the analytical results of the Hydropunch samples, ~~a~~ dual-nested wells, T-25Bs and T-25Bd,

were installed to increase understanding of contaminant concentrations in each of the HSUs (AECOM, 2018).

3.9 Continued Groundwater Monitoring Program

The groundwater monitoring program at the site historically included two components: 1) evaluation of NPC and 2) evaluation of the EAB program. The NPC evaluation was initiated in April 2001 and involves the assessment of volatile organic compound (VOC) concentration trends after complete suspension of groundwater extraction at the site. Section 3.1 discusses the groundwater extraction and treatment (GWET) system that was previously operated at the site. The EAB program was initiated in October 2000 to more aggressively remediate the former site source area (the former UST area). As discussed in the 2017 Annual Groundwater Monitoring and Remedial Progress Report, geochemical conditions conducive to EAB are still present at the site; however, monitoring was discontinued due to the low TOC concentrations and microbial populations (Appendix C) which did not support ongoing annual monitoring.

VOCs detected during the October 2018 groundwater sampling events are summarized in Table 3. The historical results for previous monitoring events performed since 1990, including monitoring events for the EAB program and the NPC evaluation, are presented in Appendix C. Historically, low concentrations of other VOCs (e.g., chloroform) have occasionally been detected. These VOCs are not listed in Table 3 or Appendix C as they are not associated with site operations and have not been detected above their site cleanup requirements (SCRs) (e.g., California Maximum Contaminant Levels [MCLs] or action levels, federal MCLs, or risk-based levels).

3.9.1 Water-Level Elevations

The October 2018 water-level elevation data for the site wells are presented in Table 2 and historical water-level data are presented in Appendix B. The historical data include measured depths to groundwater and the calculated water-level elevations recorded for each well since 1986. Potentiometric surface contours generated for Zones A (from first encountered groundwater to approximately 20 feet above mean sea level [MSL]), B1 (approximately 20 above MSL to 0 feet above MSL), and B2 (approximately 0 feet above MSL to 20 feet below MSL) using the October 2018 water-level elevation data are presented on Figures 4 through 7. In both Zone B3 and Zone B4, there is only one site well screened within each zone, and therefore a potentiometric surface cannot be contoured for those zones.

Depth to water, as measured in October 2018, indicates that the static depth to the water table in Zone A ranged from approximately 5.71 feet (well 36D) to 7.35 feet below ground surface (bgs) (well 38S), see Table 2. The regional and local direction of groundwater movement in Zone A is to the north at an average horizontal gradient of 0.005 horizontal foot per vertical foot, consistent with previous monitoring events. The general horizontal groundwater gradient in Zone B1 is to the north with a northwestern component at the south end of the site. Based on the recent ESS evaluation (Section 2.3.2), groundwater movement is influenced locally by channelized flow related to stream deposits. The gray areas on Figures 4 through 7 represent areas of low permeability silt/clay-rich floodplain deposits that impede groundwater flow relative to the higher permeability sand/gravel stream channel deposits. Groundwater movement in Zone B2 is to the northwest. Water levels and groundwater movement in Zones B1 and B2 have historically been,

and continue to be, affected by groundwater extraction at the Philips sites (located to the west at 815 Stewart Drive and 440 Wolfe Road).

Water surface elevations in Zone A wells during the October 2018 monitoring event increased in elevation by 0.3 foot to 0.7 feet compared to the October 2017 measurements. Water levels in Zone B1 wells during October 2018 also increased in elevation by 0.2 feet to 0.8 feet compared to October 2017. Water levels in Zone B2 wells during October 2018 increased in elevation by 0.5 feet to 0.9 feet compared to October 2017. Over the five-year period from 2014 through 2018, groundwater elevations at the site generally increased across all three Zones.

3.9.2 Groundwater Analytical Results

VOCs detected during the October 2018 groundwater sampling events are summarized in Table 3. The historical results for previous monitoring events performed since 1990, including monitoring events for the EAB program and the NPC evaluation, are presented in Appendix C. Historically, low concentrations of other VOCs (e.g., chloroform) have occasionally been detected. These VOCs are not listed in Table 3 or Appendix C as they are not associated with site operations and have not been detected above their site cleanup requirements (SCRs) (e.g., California Maximum Contaminant Levels [MCLs] or action levels, federal MCLs, or risk-based levels).

Figures 8 through 10 present the analytical results for TCE, cDCE, and vinyl chloride (VC) for each of the zones (A, B1, and B2). Graphs of TCE and cDCE concentrations vs. time for representative site wells, including seven wells in Zone A (T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A) and TCE for seven wells in Zone B1 (T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, and T-17B), are presented on Figures 11 through 13. Figure 14 presents TCE concentrations vs. time for representative on-site Zone B2 wells (T-2C, T-10C, T-11C, and T-12C). Note that wells T-2A, T-2B, and T-2C are still included on these figures for reference, even though the wells no longer exist.

Graphs of concentrations of tetrachloroethene (PCE), TCE, cDCE, trans-1,2-dichloroethene (tDCE), and VC for October 2018 at select wells, along the general groundwater flow direction in Zone A, across the site are presented on Figure 15. Due to the separate HSUs in Zone B1 and differing contaminant profiles in these HSUs (AECOM, 2016b), a similar figure was not created for Zone B1.

VOC analytical results, including discussion of VOC trends over the past 5 years for each part of the site are discussed as follows: upgradient Zone A and Zone B1 wells (Section 3.9.2.1), downgradient Zone A and Zone B1 wells (Section 3.9.2.2), and Zone B2 wells (Section 3.9.2.3). Note that former source area wells are not discussed as they were destroyed in late 2014 and therefore not sampled since that date. However, historical data for former source area wells are still included on Figures 11 through 14 and in Appendix C.

For selected site wells, trend plots of chlorinated ethene concentrations prior to and after suspension of groundwater extraction are presented in Appendix D. Copies of the laboratory analytical reports and chain-of-custody forms for the 2018 groundwater monitoring events are in Appendix E.

3.9.2.1 Site Zone A and Zone B1 Upgradient Wells

Impacts to the site from offsite sources continue to be apparent for Zones A and B1.

Zone A

Groundwater analytical results from Zone A wells 36S, 36D, T-7A, and 37S, located along the upgradient southern site boundary, indicate migration of VOCs, primarily TCE and cDCE, onto the site. Concentrations of TCE migrating onto the site (particularly from areas 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 15).

- Between 2014 and 2018, Zone A wells 36D and 37S, located along the upgradient site boundary, have had TCE concentrations ranging from 4.2 micrograms per liter (µg/L) to 420 µg/L and cDCE concentrations ranging from 2.7 µg/L to 43 µg/L. Concentrations of both TCE, cDCE, and Freon 113 (associated with the Philips site) detected in Well 37S increased by an order of magnitude between 2016 and 2017, but decreased in 2018.

- Between 2014 and 2018, TCE and cDCE concentrations for T-7A, located approximately 175 feet upgradient of the former site source area, have ranged from 160 µg/L to 220 µg/L and 64 µg/L to 100 µg/L, respectively. In October 2018, the concentrations of TCE and cDCE in T-7A were 140 µg/L and 81 µg/L, respectively.

Zone B1

Groundwater analytical results for Zone B1 wells T-5B, T-7B, and T-20B along the upgradient site boundary also indicate VOC migration onto the site.

- Between 2006 and 2011, TCE, cDCE, and Freon 113 concentrations for Zone B1 well T-5B exhibited fluctuations likely due to periodic shutdown of the Philips 815 groundwater extraction system, located adjacent to the southwesterly site boundary, which allowed migration of impacted groundwater from upgradient, offsite source areas onto the site. Concentrations remained relatively stable from 2011 through 2015, with TCE concentrations ranging from 1,400 µg/L to 1,800 µg/L. In 2016, concentrations of TCE, cDCE, and Freon 113 in well T-5B decreased to 170 µg/L, 8.8 µg/L, and 6.1 µg/L, respectively. In 2017, the concentrations of TCE, cDCE, and Freon 113 increased to 1,500 µg/L, 54 µg/L, and 160 µg/L, respectively, which are all within the range observed between 2011 and 2015. In 2018, concentrations of TCE, cDCE, and Freon 113 (1,200 µg/L, 39 µg/L, and 120 µg/L, respectively) were similar to 2017 and the general historical range since 2011.

- Between 2007 and 2018, TCE concentrations for Zone B1 well T-7B have fluctuated between 21 µg/L and 200 µg/L. In 2018, the concentrations of TCE, and cDCE, and Freon 113 were 54 µg/L, 2.4 µg/L, and 1.0 µg/L, respectively. Well T-20B was installed in 2017 to monitor concentrations coming on site in HSU3, a shallower HSU not screened by well T-7B. Concentrations of TCE and cDCE in well T-20B were 230 µg/L and 280 µg/L, respectively, in 2017, indicating that higher concentrations are migrating onto the site than were previously monitored by well T-7B. In 2018, concentrations of TCE, cDCE, and Freon 113 were 230 µg/L, 190 µg/L, and 2.1 µg/L, respectively.

In Zone B1, the historical presence of Freon 113, a VOC which has not been attributed to the former site source area, has been demonstrated to be related to offsite sources. Historical and/or current Freon 113 concentration data (Appendix C) from site Zone B1 wells T-5B, T-7B, T-17B, and T-19B continue to indicate impact from offsite sources. Fluctuating concentrations between 2008 and 2018 in one Zone B1 well, T-5B, further supports the benefit of continued shutdown of onsite extraction to mitigate further migration of VOCs from offsite sources onto the site.

3.9.2.2 Site Zone A and Zone B1 Downgradient Wells

Downgradient of the former source area, the influence of the EAB program has been more pronounced for Zone B1 than Zone A, consistent with greater hydraulic connection and higher transmissivity in the deeper zones due to more laterally continuous permeable zones. As described in Section 2.5, EAB remedial activities, consisting of cheese whey injections, were conducted in downgradient Zone A wells (T-13A, T-14A, and T-18A through T-24A) in September 2007, December 2007, March 2008, and June 2008. In November 2011, EHC-L was injected into the same downgradient Zone A wells and ABC+ was injected in direct push points downgradient of the source area in Zones A and B1. Additional limited EAB injections were also conducted beneath the building footer in December 2014 to address soil that was not accessible during source area excavation activities. Monitoring of EAB parameters (total organic carbon (TOC), microbial population, and anions) was discontinued in 2018 based on the length of time that has elapsed since the last electron donor injections and lack of observed TOC, microbial population, or changes in anion concentrations (Appendix C).

Zone A

The enhanced anaerobic bioremediation (EAB) process and source excavation activities have removed considerable VOC mass from the former site source area and immediate vicinity. This has reduced the VOC mass migrating to the downgradient site areas. The cessation of groundwater extraction has enhanced conditions by returning the groundwater gradient to its natural condition, allowing for longer residence times between wells T-8A and T-9A, and hence, higher attenuation potential within these areas. TCE concentrations for well T-9A are consistently lower than the upgradient property boundary well T-7A, and total chlorinated ethene concentrations for T-13A, T-14A, T-8A, T-15A, T-16A, and T-9A (listed from upgradient to downgradient) are less than those for upgradient property boundary well T-7A (see Figure 15 and Appendix D).

In October 2018, TCE concentrations remained consistent in all of the former cheese whey and EHC-L injection wells sampled as compared to 2017. However, these concentrations remained below the concentration of TCE in upgradient monitoring well T-7A, which represents contamination migrating onto the site. Concentrations of cDCE were generally stable.

Well 38S, located near the western site boundary and screened in Zone A, has consistently displayed a differing contaminant profile from other Zone A wells (higher cDCE concentrations and presence of Freon 113). Based on ESS evaluation, a northeast-oriented channel traverses the neighboring Philips 815 site and continues onto and across the site in the vicinity of well 38S (Figure 4). Therefore, it is likely that well 38S is impacted by offsite sources.

Zone B1

As discussed in Section 2.3.2, two HSUs were mapped in Zone B1 during the initial ESS assessment. HSU1 runs north-south across the site and includes the former TRW source area. HSU2 is in communication with offsite contaminant source areas to the southwest that contribute to contamination found in onsite wells T-17B, T-4B, and T-9B. As discussed in Section 2.3.2 and shown on Figure 6, during the background water quality evaluation, a third shallower HSU, HSU3, was identified in Zone B1 that contains higher concentrations of VOCs at the southern property boundary than were previously monitored by monitoring well T-7B, as evidenced by the concentrations detected in T-20B.

In downgradient monitoring well T-8B, which is screened across both HSU1 and HSU3, total chlorinated ethene concentrations decreased by more than 50 percent (%) following initiation of Zone B1 EAB activities in 2000 (see Appendix C). TCE concentrations increased from October 2007 to October 2013 (from 7.5 µg/L to 36 µg/L), decreased to 10 µg/L in October 2014, and remained below the MCL (5 µg/L) through October 2017. In 2018, the TCE concentration increased to 18 µg/L. Concentrations of daughter product cDCE have significantly fluctuated in this well since 2009 with concentrations ranging from 6.2 µg/L to 460 µg/L.

In well T-4B, located near the western property boundary and screened in HSU2, the TCE concentration in October 2018 was not detected. Concentrations of cDCE have been consistently higher than TCE since 2000, and have fluctuated between 120 µg/L and 700 µg/L since 2007, with one exception of 830 µg/L in 2013. The cDCE concentrations in this well have also been historically higher compared to other Zone B1 wells since 2005. These elevated cDCE concentrations could be attributable to two factors: (1) the migration of EAB dechlorination products (cDCE, VC, and ethene) in groundwater from the former site source area, and (2) the migration of cDCE onto and through the site from offsite sources via HSU2. Elevated concentrations of TCE, cDCE, and Freon 113, associated with offsite sources) detected in well T-21B (installed in 2017), located along the western property boundary cross gradient from the former site source area, support that contaminants are migrating from offsite at the western property boundary. Elevated concentrations of TCE and cDCE similar to those detected in well T-21B were also detected in well T-17B along the western property boundary.

It is inferred that well T-9B, screened in both HSU1 and HSU2, was historically impacted by an offsite source as a result of pumping from T-9B, inducing migration of VOCs onto the site in Zone B1 (CDM, 1999 and 2000c). This conclusion is supported by the historical substantially higher TCE concentrations for well T-9B compared to upgradient Zone B1 wells T-8B and T-10B, and the historical presence of Freon 113 in T-9B, which is not attributed to the site. The decrease in TCE concentrations following the suspension of groundwater extraction at T-9B, different contaminant profile from upgradient onsite wells, and the mapping of HSUs within Zone B1 support the conclusion that groundwater around well T-9B is impacted by migration of VOCs onto the site.

Contaminant concentrations in the new wells T-25Bs and T-25Bd are distinct from the existing monitoring well cluster (wells T-22B, T-23B, and T-24B) and are generally consistent with those

in wells T-9B. Concentrations of TCE detected in new wells T-25Bs and T-25Bd and existing well T-9B were 350 µg/L, 450 µg/L and 220 µg/L, respectively. Concentrations of cDCE in wells T-25Bs, T-25Bd, and T-9B were 270 µg/L, 77 µg/L, and 170 µg/L, respectively (Table 2). As discussed in Section 2.0, Freon 113 was detected in well T-25B at a concentration of 5.1 µg/L. Although not detected during this sampling event, Freon 113 has been detected historically in well T-9B. Based on the similarity in concentrations to well T-9B and the presence of Freon 113, the new wells are screened in the distinct HSUs (HSU1 and HSU2) and serve to monitor the groundwater quality within the HSUs.

3.9.2.3 Site Zone B2 Wells

In Zone B2, a lower permeability unit oriented to the north-northeast traverses the site (Figure 7). Onsite well T-10C is located on the western margin of this low permeability unit, potentially indicating a degree of communication with contamination coming from offsite. This is further supported by the significantly different contaminant concentrations detected in well T-10C compared to onsite wells in Zone B2 (e.g., the presence of Freon 113 at significantly higher concentrations than other Zone B2 wells at the site). TCE and cDCE concentrations at T-11C to the east ranged from 3 µg/L to 460 µg/L and from non-detect to 26 µg/L, respectively between 2014 and 2018. Concentrations in well T-10C of TCE and cDCE were 260 µg/L and 890 µg/L, respectively (see Figure 10). Concentrations in Zone B2 are generally within the range seen historically (Appendix C). VOC concentrations for Zone B2 in the central site area decreased an order of magnitude following suspension of groundwater extraction from site well T-2C in November 2000 as well as the presence of Freon 113 in all downgradient Zone B2 monitoring wells suggests that contamination in Zone B2 is at least partially attributed to contamination pulled on site during groundwater extraction.

3.9.2.4 Offsite Groundwater Analytical Data

VOC results for the October 2018 monitoring events conducted on the nearby Philips and AMD properties were provided to Northrop Grumman and reviewed during the preparation of this annual report. These data indicate that the neighboring Philips 815 site continues to demonstrate substantial VOC impact in groundwater with maximum October 2018 concentrations of TCE and cDCE of 72,000 µg/L and 46,000 µg/L, respectively.

VOC data for the AMD 901/902 site, located upgradient of the site, indicate a maximum TCE concentration of 420 µg/L for Zone A and 200 µg/L for Zone B1. TCE concentrations on the AMD 915 site, located downgradient of the site, indicate a maximum of 59 µg/L for Zone A. The VOC concentrations observed in site Zone A wells 36S, 36D, and T-7A located along the upgradient site boundary are attributed to the migration of contamination from upgradient properties such as Mohawk Laboratories and AMD.

4.0 REMEDIATION EFFECTIVENESS EVALUATION

This section presents an evaluation of the effectiveness of remedial actions at the site including the previous groundwater extraction system and EAB program. In addition, this section presents an evaluation of the effectiveness of the overall remedial actions in supporting enhanced natural attenuation for the site. The combined past and on-going removal/treatment of VOCs has

significantly reduced and continues to reduce the mass of VOCs at and in the near vicinity of the former site source area.

4.1 Effectiveness of Groundwater Extraction and Treatment System

The GWET system operated from 1985 to April 2001. The GWET system consisted of seven extraction wells (completed at three cluster locations), the Eductor, transmission pipelines, and a treatment system. Although groundwater extraction no longer occurs, the T-8 and T-9 well clusters were used for groundwater monitoring in 2017. The GWET wells were as follows:

- T-2 cluster: Wells T-2A, T-2B, and T-2C, completed in Zones A, B1, and B2, respectively. These wells were destroyed in November 2014.
- T-8 cluster: Wells T-8A and T-8B, completed in Zones A and B1, respectively.
- T-9 cluster: Wells T-9A and T-9B, completed in Zones A and B1, respectively.
- Eductor: A perforated PVC pipe within a gravel-backfilled excavation (Site source area), completed in Zone A at a location adjacent to and immediately up gradient of the T-2 cluster. The Eductor was destroyed in October 2014.

Extracted groundwater was treated at the site via an air stripper to remove VOCs, under a Bay Area Air Quality Management District permit. Treated groundwater was discharged to the storm drain under a National Pollutant Discharge Elimination System permit. A total of approximately 92.5 million gallons of groundwater were extracted prior to suspension in 2001, from which approximately 3,100 pounds of trichloroethene (TCE) were removed.

Pumps in extraction wells at and near the former site source area (T-2A, T-2B, T-2C, T-8A, T-8B, and the Eductor) were turned off prior to, or shortly after, the initiation of the EAB program (RWQCB, 2000). In April 2001, pumps in the remaining two extraction wells, located near the northern property boundary (T-9A and T-9B), were turned off to allow the property owner to conduct site redevelopment activities (RWQCB, 2001b). Subsequently, approval from RWQCB was received for the continued suspension of groundwater extraction based on changes in VOC concentrations after suspension (CDM, 2001a and RWQCB, 2001c). As a result of continued improvements in groundwater VOC concentrations across the site, RWQCB approved suspension of groundwater extraction and recommended suspension be continued in their Five-Year Review report to USEPA (RWQCB, 2004a and 2004b). USEPA approved RWQCB's Five-Year Review Report (USEPA, 2004). Since April 2001, groundwater extraction at the site has not occurred. The GWET system was dismantled and removed from the site in November 2012 because it had deteriorated beyond repair.

Suspension of groundwater extraction should be continued so as not to interfere with:

- The robust biodegradation processes present within the EAB program treatment areas, particularly within the former site source area where the highest mass removal is occurring;
- The enhanced attenuation conditions present in the onsite, Zone A downgradient areas, which have resulted from both reduction of VOC mass flux from the EAB treatment areas and increased attenuation potential from suspension of extraction; and,

- The capture of offsite plume sources by the Philips 815 Stewart Drive site Zone B1 and Zone B2 groundwater extraction system.

4.2 Enhanced Anaerobic Bioremediation Program

Following completion of CDM's *Evaluation of Natural Attenuation and Chemical Oxidation Report* (CDM, 2000a) and approval from RWQCB (RWQCB, 2000), Northrop Grumman (then TRW Inc.) implemented the EAB program at the site in 2000. The following presents the chronology of the implementation and progress of the EAB program:

Date	Report/Letter/Event
March 2000	CDM's report on the evaluation of natural attenuation and chemical oxidation recommended that in situ remediation via EAB be implemented for Zone B1 (CDM, 2000a).
August 2000	CDM submitted a work plan to implement an EAB pilot program in Zone B1 at the former site source area (CDM, 2000b).
October 2000	After verbal approval from RWQCB, CDM implemented the EAB pilot program by injecting polylactate ester (via Regenesis' Hydrogen Release Compound [HRC] products) into Zone B1 in and around the former site source area (see Figure 3).
April 2001	Based on the periodic monitoring of Zone A wells within the EAB treatment area, CDM determined that the limited amount of HRC product that was injected into Zone A during the injection into Zone B1 had significantly changed conditions in Zone A to support EAB. CDM submitted an addendum to the EAB work plan to inject electron donor into Zone A. RWQCB approved the addendum. (CDM, 2001 and RWQCB, 2001c)
June 2001	CDM injected slow-releasing HRC to target Zone A. In addition, injections within the footprint of the former treatment system, which was not possible during October 2000 injection, were advanced into Zone B1.
December 2003, January 2004, and February 2005	Effectiveness monitoring showed that the EAB application increased the rate of VOC biodegradation occurring within the former site source area and accelerated VOC attenuation rates across the downgradient portions of the site.
August 2005	Subsequent to RWQCB approval (RWQCB, 2005), the EAB pilot program was expanded to include groundwater immediately downgradient of the former site source area in Zone A and Zone B1 (CDM, 2005b) (see Figure 3).
April 2006	CDM submitted the Revised Proposed Plan to USEPA to change the groundwater remedy from GWET to in situ bioremediation (CDM, 2006).
July 2006	RWQCB issued a letter to USEPA in which they concurred with conclusions of the Revised Proposed Plan and recommended to USEPA to change the groundwater remedy for the site from GWET to in situ bioremediation (RWQCB, 2006).

Date	Report/Letter/Event
January 2007	EAB performance monitoring showed that EAB continued to improve the groundwater quality and enhance VOC degradation in and around the former site source area; however, VOC degradation had slowed at downgradient portions of the plume due to competing electron acceptors (Northrop Grumman, 2007).
June 2007	CDM submitted a work plan for additional Zone A EAB remedial activities, which proposed to conduct four quarterly cheese whey injections in the expanded portion of Zone A downgradient of the former site source area (CDM, 2007).
August 2007	Subsequent to RWQCB approval (RWQCB, 2007), CDM installed seven injection wells and one monitoring well as part of the downgradient Zone A EAB treatment area.
September 2007	Tamalpais Environmental Consultants (TEC), under CDM oversight, performed the first of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A.
November 2007	CDM performed a one-time bioaugmentation event into wells T-13A, T-14A, and T-18A through T-24A, using groundwater from the Eductor.
December 2007	TEC, under CDM oversight, performed the second of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A.
March 2008	TEC, under CDM oversight, performed the third of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A.
June 2008	TEC, under CDM oversight, performed the last of four quarterly cheese whey injection events into wells T-13A, T-14A, and T-18A through T-24A.
January 2010	EAB performance monitoring showed depletion of electron donor (cheese whey) and initial rebound of competing electron acceptors in the expanded EAB treatment area (Northrop Grumman, 2010).
October 2010	AECOM submitted a work plan for additional Zone A EAB remedial activities, which proposed to conduct one emulsified vegetable oil (EVO) injection and one neat vegetable oil injection in the former site source area.
October 2010	AECOM injected EVO into the Eductor, located in Zone A within the former site source area excavation.
November 2010	Vironex, under AECOM oversight, injected neat vegetable oil into the Eductor, located in Zone A within the former site source area excavation.
November 2011	AECOM submitted a work plan for additional EAB remedial activities, which proposed to inject EHC-L and ABC+ downgradient of the former site source area.
November 2011	Redox Tech, under AECOM oversight, injected EHC-L into injection wells T-13A, T-14A, and T-18A through T-24A and injected ABC+ into Zone A and Zone B1 via nine direct push locations (see Figure 3).

Date	Report/Letter/Event
December 2014	Vironex, under AECOM oversight, injected EVO under building footings in the vicinity of the former source area.

The EAB program is described in detail in the Five-Year Status and Effectiveness Report (AECOM, 2014f). Due to the EAB program, the rate of VOC dechlorination increased in all wells and the main parent compounds (PCE and TCE) were reduced by several orders of magnitude within and downgradient of the source area. The decreases in the parent compounds were supported by increases in daughter compounds (cDCE, VC, and ethane/ethene; Appendix C).

Geochemical conditions conducive to EAB are still present at the site; however, the low TOC concentrations and microbial populations do not support ongoing annual monitoring. Presence of Dhc populations, albeit at low detected counts in the wells sampled, provides evidence for the existence on-site of a viable ongoing mechanism for ongoing contaminant mass destruction.

5.0 CONCLUSIONS AND RECOMMENDATIONS

This section presents AECOM's conclusions regarding the GWET system and the EAB program as well as recommendations for changing the site groundwater remedy from GWET system to EAB with continued groundwater monitoring.

The offsite Philips extraction system currently maintains capture of the offsite contamination present in Zone B2 at the site, and the onsite and offsite contamination present in Zone B1. These capture zones extend onto the site by design in order to maintain effective capture of offsite Philips source areas.

Since suspension of the onsite GWET system in 2001, the Zone A EAB processes induced across the site have been effective in reducing VOC mass within the treatment areas.

In the absence of complete remediation of upgradient offsite plumes, an attainable goal for the site is to reduce site VOC mass such that the attenuation rate of VOCs across the site can be attributed solely to the attenuation dynamics of the upgradient offsite plumes (i.e., decreases in VOC concentrations to background levels [concentrations migrating onsite from upgradient offsite sources]). This reduction of mass has been achieved to date through the extensive source area excavation performed in 2014 as well as more than a decade of successful EAB remediation. AECOMs recommends using the refined ESS CSM to develop an appropriate monitoring program to be presented in a Focused Feasibility Study.

6.0 REFERENCES

AECOM, 2010a. 2009 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, 825 Stewart Drive Sunnyvale, California. January 31.

AECOM, 2010b. Work Plan for Additional Enhanced Anaerobic Bioremediation Activities, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. October 15.

AECOM, 2010c. 2010 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, 825 Stewart Drive Sunnyvale, California. December.

AECOM, 2011. 2010 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, 825 Stewart Drive Sunnyvale, California. January 31.

AECOM, 2012. 2011 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, 825 Stewart Drive Sunnyvale, California. January 31.

AECOM, 2013a. Work Plan for Membrane Interface Probe and Remediation Activities at the Former Source Area Excavation, Former TRW Microwave Facility, 825 Stewart Drive Sunnyvale, California. June 25.

AECOM, 2013b. Membrane Interface Probe (MIP) Activities Report, Former TRW Microwave Facility, 825 Stewart Drive Sunnyvale, California. August 27.

AECOM, 2013c. Vapor Intrusion Evaluation Sampling and Analysis Work Plan, Former TRW Microwave Facility, Sunnyvale, California. October 29, 2013.

AECOM, 2013d. 2012 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, Sunnyvale, California. January 31.

AECOM, 2014a. Well Destruction and Source Removal Work Plan, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. November 12, 2014.

AECOM, 2014b. Work Plan for Additional Source Area Injection Activities, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. November 10, 2014.

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

AECOM, 2014d. Work Plan Addendum for Source Area Removal Activities, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. November 12, 2014.

AECOM, 2014e. Work Plan for Additional Source Area Injection Activities, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. November 10, 2014.

AECOM, 2015f. Five-Year Status and Effectiveness Evaluation Report, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. February 28, 2014.

AECOM, 2015a. Annual Groundwater Monitoring and Remedial Progress Report, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. February 6, 2015.

AECOM, 2015b. Technical Memorandum in Response to the 2014 Five-Year Review Report, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. March 31, 2015.

AECOM, 2016a. Addendum to the Technical Memorandum in Response to the 2014 Five-Year Review Report, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. January 25, 2016.

AECOM, 2016b. Background Water Quality Evaluation Report, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. November 15, 2016.

AECOM, 2018. Well Installation Report, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. May 3, 2018.

AECOM, 2019. Well Installation Report Addendum, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California.

AECOM, in prep. Conceptual Site Model Addendum, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California.

CDM, 1999. Letter to RWQCB regarding Interpretation of Groundwater TCE Data in B1 Zone, Former TRW Inc. Microwave Site, Sunnyvale, California. April 26, 1999.

CDM, 2000a. Evaluation of Natural Attenuation and Chemical Oxidation Report, Former TRW Microwave Facility. March 24, 2000.

CDM, 2000b. Work Plan – Enhanced Anaerobic Bioremediation Pilot Test. August 22, 2000.

CDM, 2000c. Letter to RWQCB regarding Request – Shutdown of Extraction Wells T-9B and T-2C. May 10, 2000.

CDM, 2001. Letter to RWQCB regarding Addendum to Work Plan for Enhanced Anaerobic Bioremediation Pilot Test. April 5, 2001.

CDM, 2004. Letter to Water Board regarding Destruction of Monitoring Wells T-1A and T-1B at the Former TRW Microwave Facility. February 11, 2004.

CDM, 2004c. Report of Findings – Installation and Operation of a Temporary Mechanical Ventilation System and Indoor Air Sampling. May 11.

CDM, 2004d. Work Plan for Installation and Operation of a Temporary Mechanical Ventilation System and Indoor Air Sampling. March 29.

CDM, 2004e. Letter to Water Board regarding Well 36D at the Former TRW Microwave Facility. June 22.

CDM, 2004f. Work Plan –Additional Indoor Air Sampling. September 22.

CDM, 2004g. Report of Findings – October 2004 Indoor Air Sampling. November 17.

CDM, 2005. Addendum to Work Plan for Enhanced Anaerobic Bioremediation Pilot Test, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. July 20, 2005.

CDM, 2005a. Risk Management Plan (Preliminary Draft), 825 Stewart Drive, Sunnyvale, California. April 26.

CDM, 2005b. Addendum to Work Plan for Enhanced Anaerobic Bioremediation Pilot Test, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. July 20.

CDM, 2006. Revised Proposed Plan, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. April 11, 2006.

CDM, 2007. Work Plan for Additional Zone A Enhanced Anaerobic Bioremediation Activities, Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. June 28, 2007.

CDM, 2009a. Five-Year Status and Effectiveness Evaluation Report, May 2004 to December 2008, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, CA. May 20.

CDM, 2009b. Revised Proposed Plan, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. September 30.

HLA, 1991a. Feasibility Study Report, The Companies, Sunnyvale, California. Report prepared for AMD, Signetics, and TRW. January 1991.

HLA, 1991b. Remediation Investigation Report, The Companies, Sunnyvale, California. Report prepared for AMD, Signetics, and TRW. January 1991.

Northrop Grumman, 2006. 2005 Annual Groundwater Monitoring Report, Former TRW Microwave Facility. January 30.

Northrop Grumman, 2007. 2006 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, January 31, 2007.

Northrop Grumman, 2008. 2007 Annual Groundwater Monitoring Report. Former TRW Microwave Facility, 825 Stewart Drive, Sunnyvale, California. January 31.

Northrop Grumman, 2010. 2009 Annual Groundwater Monitoring Report, Former TRW Microwave Facility, January 29, 2010.

Orion Environmental, Inc. 2015. Source Area Soil Removal Report, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. March 20, 2015.

RWQCB, 1999. Letter to TRW regarding Revisions to Sampling and Reporting Schedule for TRW Facility. July 1, 1999.

RWQCB, 2000. Letter to TRW regarding Response to Request to Shut Down Extraction Wells T-9B and T-2C. November 9, 2000.

RWQCB, 2001a. Letter to TRW regarding Approval of Five-Year Status and Effectiveness Evaluation Report for the Former TRW Microwave Site. October 2, 2001.

RWQCB, 2001b. Letter to CDM regarding acceptance of March 22, 2001 letter requesting approval to relocate groundwater treatment system. March 29, 2001.

RWQCB, 2001c. Letter to TRW regarding Approval of Addendum to Work Plan for Enhanced Anaerobic Bioremediation Pilot Test. April 6, 2001.

RWQCB, 2004a. Letter to Northrop Grumman regarding Approval of Indoor Air Sampling Reports, EAB Summary Report, and Non-Pumping Conditions Report, Former TRW Microwave Facility. February 17, 2004.

RWQCB, 2004b. Submittal of Five-Year CERCLA Review for Eastern Sunnyvale TRW and AMD Superfund Sites, Sunnyvale, Santa Clara County, California. September 30, 2004.

RWQCB, 2004c. Letter to Northrop Grumman regarding Approval of Work Plan for Installation and Operation of a Temporary Mechanical Ventilation System and Indoor Air Sampling. April 9.

RWQCB, 2004d. Letter to Northrop Grumman regarding Approval of Mechanical Ventilation and Indoor Air Sampling Report. July 1.

RWQCB, 2004e. Personal communication from Mr. Keith Roberson (Water Board) to Mr. Pawan Sharma (CDM) regarding CDM's Letter to Water Board regarding Well 36D at the Former TRW Microwave Facility. August 20.

RWQCB, 2004f. Letter to Northrop Grumman regarding Approval of Work Plan – Additional Indoor Air Sampling. October 7.

RWQCB, 2004g. Letter to TRW regarding Approval of Report of Findings – October 2004 Indoor Air Sampling, December 29.

RWQCB, 2005. Letter to Northrop Grumman regarding Approval of Addendum to Work Plan for Enhanced Anaerobic Bioremediation Pilot Test. July 27, 2005.

RWQCB, 2006. Letter to U.S. Environmental Protection Agency Region 9 regarding Concurrence with Revised Proposed Plan, TRW Microwave Facility. July 24, 2006.

RWQCB, 2007. Letter to Northrop Grumman regarding Approval of Work Plan for Additional Zone A Enhanced Anaerobic Bioremediation Activities. July 2, 2007.

RWQCB, 2009. Third Five-Year Review, TRW Microwave Site, 825 Stewart Drive, Sunnyvale, Santa Clara County, California. September.

RWQCB, 2010. Letter to Northrop Grumman regarding Requirement for Focused Feasibility Study. November 18.

RWQCB, 2012. Letter to Northrop Grumman Requirement for Vapor Intrusion Sampling and Analysis Work Plan and Report. December 6.

Tech Facility 1, 1992. Covenant and Agreement to Restrict Use of Property (Deed Restriction), 825 Stewart Drive, Sunnyvale, California. August 10, 1992.

USEPA, 1991. Record of Decision, Advanced Micro Devices #901/902, Signetics, TRW Microwave, Combined Superfund Sites, Sunnyvale, California. September 11, 1991.

USEPA, 2004. Five-Year Review Report for the TRW Microwave Superfund Site, Sunnyvale, CA. September 30, 2004.

Weiss Associates, 1996a. Five-Year Status Report and Effectiveness Evaluation, Former TRW Microwave Site, 825 Stewart Drive, Sunnyvale, California. Prepared for TRW Inc. June 19.

WA (Weiss Associates), 1996b. Groundwater Extraction Modification Proposal. September 6.

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 Off-site Operable Unit, Sunnyvale, California. August 7, 2014.

TABLES

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

Well Number	Zone	Screen Interval (feet bgs)	Total Depth (feet bgs)	Top of Casing Elevation (feet, MSL)	U.S. EPA Test Method
EDUCTOR	A	8-16	16.5	42.24	Well Abandoned in 2014
T-1A	A	10-20	20	41.16	Well Abandoned in 2004
T-1B	B1	28-38	38	41.72	Well Abandoned in 2004
T-2A	A	10-20	20	42.16	Well Abandoned in 2014
T-2B	B1	23-33	33	42.23	Well Abandoned in 2014
T-2C	B2	51-59	59	41.38	Well Abandoned in 2014
T-3A	A	10-20	20	41.74	Well Abandoned in 2014
T-4B	B1	31.5-41.5	42	40.98	8260B
T-5B	B1	34.5-44.5	45	41.95	8260B
T-6A	A	10-20	20	39.92	-
T-7A	A	8-20	20	41.84	8260B
T-7B	B1	34-41	41	41.75	8260B
T-8A	A	8-19	19	40.48	8260B
T-8B	B1	24-36	36	40.43	8260B
T-8D	B4	90-102	102	38.83	Sampling Suspended in 2002
T-9A	A	7-19	19	39.3	8260B
T-9B	B1	28-37	37	31.56	8260B
T-9C	B3	55-65	65	38.82	8260B
T-10B	B1	23-32	32	40.13	8260B
T-10C	B2	49-59	60	39.46	8260B
T-11C	B2	46-56	56	38.78	8260B
T-12C	B2	45.5-55.5	56	40.84	8260B
T-13A	A	10-20	20	40.99	8260B
T-14A	A	10-20	20	40.81	8260B
T-15A	A	10-20	20	40.22	8260B
T-16A	A	10-20	20	40.12	8260B
T-17A	A	10-20	20	40.88	8260B
T-17B	B1	25-35	35	40.72	8260B
T-18A	A	12-22	22	41.20	8260B
T-18B	B1	41-46	46	41.41	8260B
T-19A	A	10-20	22	41.00	8260B
T-19B	B1	29-39	39	41.38	8260B
T-20A	A	7-17	20	40.86	8260B
T-20B	B1	22-27	27	40.65	8260B
T-21A	A	10-20	20	41.20	8260B
T-21B	B1	22-27	27	41.53	8260B
T-22A	A	10-20	20	NS	8260B
T-22B	B1	24-25	25	39.13	8260B
T-23A	A	10-20	20	41.44	8260B
T-23B	B1	27-30	30	39.28	8260B
T-24A	A	10-20	20	41.29	8260B
T-24B	B1	33-36	36	39.19	8260B
T-25A	A	10-20	20	40.26	8260B
T-25Bs	B1	25-27	27	39.12	8260B
T-25Bd	B1	33-36	36	38.79	8260B
36S	A	10-16	16	41.44	+
36D	A	15-20	20	41.26	+
36DD	B2	51.5-61.5	61.5	41.52	+
37S	A	9-15	15	42.01	+
38S	A	9-15	15	41.13	8260B

Notes:
+ = Sample collected and analyzed by AMD.
* Most wells were resurveyed January 15, 2018.
MSL = mean sea level
NS = not surveyed
U.S. EPA = United States Environmental Protection Agency
Top of casing elevations presented in NAVD88 (North American Vertical Datum 1988).
Wells shown in green were installed in December 2018.

Eductor screen interval and total depth revised based on September 2010 well videolog
Top of casing elevation for Well T-10C resurveyed in 2015 after completion of well repairs.

ED_013761_00001459-00034

Table 2
Water-Level Elevation Measurements - October 2018
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well Number	Zone	Date Measured	Depth to Water (feet, BTOC)	Updated Top of Casing Elevation* (feet, MSL NAVD88)	Updated Water-Level Elevation (feet, MSL NAVD88)
T-1A	A	Destroyed			
T-2A	A	Destroyed			
T-3A	A	Destroyed			
T-6A	A	--	NM	39.92	--
T-7A	A	10/8/2018	6.36	41.84	35.48
T-8A	A	10/8/2018	6.21	40.48	34.27
T-9A	A	10/8/2018	6.33	39.30	32.97
T-13A	A	10/8/2018	6.40	40.99	34.59
T-14A	A	10/8/2018	6.34	40.81	34.47
T-15A	A	10/8/2018	6.14	40.22	34.08
T-16A	A	10/8/2018	6.23	40.12	33.89
T-17A	A	10/8/2018	6.64	40.88	34.24
T-18A	A	10/8/2018	6.94	41.20	34.26
T-19A	A	10/8/2018	6.61	41.00	34.39
T-20A	A	10/8/2018	6.43	40.86	34.43
T-21A	A	10/8/2018	6.73	41.20	34.47
T-22A	A	10/8/2018	6.16	NS	--
T-23A	A	10/8/2018	7.19	41.44	34.25
T-24A	A	10/8/2018	7.09	41.29	34.20
T-25A	A	10/8/2018	5.82	40.26	34.44
36S	A	10/8/2018	5.92	41.44	35.52
36D	A	10/8/2018	5.71	41.26	35.55
37S	A	10/8/2018	6.10	42.01	35.91
38S	A	10/8/2018	7.35	41.13	33.78
EDUCTOR	A	Destroyed			
T-1B	B1	Destroyed			
T-2B	B1	Destroyed			
T-4B	B1	10/8/2018	7.79	40.98	33.19
T-5B	B1	10/8/2018	7.63	41.95	34.32
T-7B	B1	10/8/2018	4.97	41.75	36.78
T-8B	B1	10/8/2018	6.01	40.43	34.42
T-9B	B1	10/8/2018	6.79	38.95	32.16
T-10B	B1	10/8/2018	6.19	40.13	33.94
T-17B	B1	10/8/2018	6.41	40.72	34.31
T-18B	B1	10/8/2018	4.73	41.41	36.68
T-19B	B1	10/8/2018	5.33	41.38	36.05
T-20B	B1	10/8/2018	4.70	40.65	35.95
T-21B	B1	10/8/2018	6.71	41.53	34.82
T-22B	B1	10/8/2018	5.88	39.13	33.25
T-23B	B1	10/8/2018	6.10	39.28	33.18
T-24B	B1	10/8/2018	7.03	39.19	32.16
T-25Bs	B1	12/14/2018	5.89	39.12	33.23
T-25Bd	B1	12/14/2018	6.32	38.79	32.47
T-2C	B2	Destroyed			
T-10C	B2	10/8/2018	7.21	39.46	32.25
T-11C	B2	10/8/2018	5.88	38.78	32.90
T-12C	B2	10/8/2018	5.19	40.84	35.65
36DD	B2	10/8/2018	4.74	41.52	36.78
T-9C	B3	10/8/2018	5.90	38.82	32.92
T-8D	B4	10/8/2018	0.02	40.46	40.44

Notes:
BTOC - below top of casing
MSL - mean sea level
NS - not surveyed
NAVD88 - North American Vertical Datum 1988
NM - not measured
* Most resurveyed on January 15, 2018.

ED_013761_00001459-00035

Table 3
2018 Groundwater Volatile Organic Compound Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well	Zone	Sample Name	Sample Date	PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	VC (µg/L)	1,1,1-TCA (µg/L)	1,1-DCE (µg/L)	1,1-DCA (µg/L)	Freon 113 (µg/L)	1,2-DCB (µg/L)	1,4-DCB (µg/L)	CBN (µg/L)
T-1A	A	Destroyed													
T-2A	A	Destroyed													
T-3A	A	Destroyed													
T-7A	A	J6038-T7A-101018-1	10/10/2018	1.4	140	81	1.3	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.50
T-7A Dup	A	J6038-T7A-101018-2	10/10/2018	1.5	150	82	1.3	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<0.50	<0.50
T-8A	A	J6038-T8A-100918	10/9/2018	0.67	75	85	1.3	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
T-9A	A	J6038-T9A-101018	10/10/2018	0.90	48	75	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	<0.50	<0.50
T-13A	A	J6038-T13A-100918	10/9/2018	<0.50	29	85	2.5	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
T-14A	A	J6038-T14A-100918	10/9/2018	<0.50	21	65	2.3	25	<0.50	<0.50	<0.50	<0.50	2.0	<0.50	<0.50
T-15A	A	J6038-T15A-101018	10/10/2018	1.4	99	76	2.1	0.56	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50
T-16A	A	J6038-T16A-100918	10/9/2018	1.3	69	71	2.2	1.5	<0.50	0.51	<0.50	<0.50	1.3	<0.50	<0.50
T-17A	A	J6038-T17A-100918	10/9/2018	0.86	69	7.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
T-18A	A	Not sampled by AECOM - Not part of sampling and analysis plan													
T-19A	A	J6038-T19A-100818	10/8/2018	<0.50	<0.50	11	2.1	26	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50
T-20A	A	Not sampled by AECOM - Not part of sampling and analysis plan													
T-21A	A	Not sampled by AECOM - Not part of sampling and analysis plan													
T-22A	A	Not sampled by AECOM - Not part of sampling and analysis plan													
T-23A	A	J6038-T23A-100918	10/9/2018	0.57	59	49	0.95	9.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
T-25A	A	J6038-T25A-100918	10/9/2018	1.1	51 F1	52	1.5	7.5	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<0.50
36S[1]	A	--	10/10/2018	1.5	59	9.4	<0.50	0.71	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
36D[1]	A	--	10/10/2018	<0.50	6.1	13	0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
37S[1]	A	--	10/10/2018	<0.5	33	4.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-
38-S	A	J6038-38S-101018	10/10/2018	<0.50	39	63	<0.50	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Eductor	A	Destroyed													
T-1B	B1	Destroyed													
T-2B	B1	Destroyed													
T-4B	B1	J6038-T4B-100918	10/9/2018	<10	<10	700	<10	<10	<10	<10	<10	<10	<10	<10	<10
T-5B	B1	J6038-T5B-101118-1	10/11/2018	<25	1200	39	<25	<25	<25	<25	<25	120	<25	<25	<25
T-5B Dup	B1	J6038-T5B-101118-2	10/11/2018	<50	1200	<50	<50	<50	<50	<50	<50	140	<50	<50	<50
T-7B	B1	J6038-T7B-100918-1	10/9/2018	<0.50	54	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	<0.50	<0.50
T-7B Dup	B1	J6038-T7B-100918-2	10/9/2018	<0.50	57	2.2	<0.50 *	<0.50	<0.50	<0.50 *	<0.50	0.91	<0.50	<0.50	<0.50
T-8B	B1	J6038-T8B-101018	10/10/2018	<10	18	460	<10	20	<10	<10	<10	<10	<10	<10	<10
T-9B	B1	J6038-T9B-101118	10/11/2018	<0.50	170	220	2.9	1.4 *	<0.50	1.7	0.64	<0.50	0.98	<0.50	<0.50
T-10B	B1	J6038-T10B-100918	10/9/2018	<0.50	2.8	15	1.2	5.3	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50
T-17B	B1	J6038-T17B-101118	10/11/2018	<5.0	170	300	<5.0	<5.0	<5.0	<5.0	<5.0	7.4	<5.0	<5.0	<5.0
T-18B	B1	J6038-T18B-100818	10/8/2018	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
T-19B	B1	J6038-T19B-100918	10/9/2018	<0.50	57	1.3	<0.50 *	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	<0.50	<0.50
T-20B	B1	J6038-T20B-101018	10/10/2018	<0.50	230	190	2.1	<0.50	<0.50	1.4	<0.50	2.1	<0.50	<0.50	<0.50
T-21B	B1	J6038-T21B-101018	10/10/2018	<5.0	430	310	<5.0	<5.0	<5.0	<5.0	<5.0	15	<5.0	<5.0	<5.0
T-22B	B1	J6038-T22B-101118	10/11/2018	1.3	79	120	3.1	0.69	<0.50	0.95	<0.50	<0.50	2.1	<0.50	<0.50
T-23B	B1	J6038-T23B-101018	10/10/2018	1.7	95	140	3.0	0.61	<0.50	0.89	<0.50	<0.50	3.0	<0.50	<0.50
T-24B	B1	J6038-T24B-101118	10/11/2018	<0.50	48	100	1.1	3.9	<0.50	1.6	0.50	<0.50	<0.50	<0.50	<0.50
T-25Bs	B1	J6038-T25Bs-121418	12/14/2018	<5.0	350	270	6.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T-25Bd	B1	J6038-T25Bd-121418	12/14/2018	8.2	450	77	<5.0	<5.0	<5.0	<5.0	<5.0	5.1	<5.0	<5.0	<5.0
T-2C	B2	Destroyed													
T-10C	B2	J6038-T10C-101118	10/11/2018	<25	260	890	<25	38	<25	<25	<25	140	<25	<25	<25
T-11C	B2	J6038-T11C-100918	10/9/2018	<0.50	150	13	<0.50	<0.50	<0.50	0.61	<0.50	<0.50	<0.50	<0.50	<0.50
T-12C	B2	J6038-T12C-100918	10/9/2018	<0.50	99	36	0.72	<0.50	<0.50	1.1	<0.50	1.1	<0.50	<0.50	<0.50
36DD[1]	B2	--													
T-9C [2]	B3	J6038-T9C-100918	10/9/2018	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
T-8D	B4	Not sampled by AECOM - Water Board approval to discontinue sampling requirement for well													

Notes:
[1] Groundwater analytical data provided by AMD.
[2] This well has been redesignated as a Zone B3 well based on a detailed evaluation of the screen interval and lithology.

<	Not detected at or above the detection limit shown
µg/L	micrograms per liter
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
1,4-DCB	1,4-Dichlorobenzene
CBN	Chlorobenzene
cDCE	cis-1,2-Dichloroethene
Dup	Duplicate sample
J	Estimated concentration. Compound detected between the detection limit and the reporting limit.
PCE	Tetrachloroethene
tDCE	trans-1,2-Dichloroethene
TCE	Trichloroethene
Freon 113	Trifluorotrichloroethane
VC	Vinyl Chloride

Table 4
2018 Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

Well	Date	Temperature (°C)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
Zone A Aquifer Wells							
T-7A	10/10/2018	25.2	7.06	1613	1	31.1	0.069
T-8A	10/9/2018	22.8	7.45	1288	6	-137.2	0.45
T-9A	10/10/2018	22.4	7.09	1344	2	39	0.88
T-13A	10/9/2018	21.2	7.39	1278	4	-131.8	0.37
T-14A	10/9/2018	20.9	7.33	1319	7	-213.6	0.52
T-15A	10/10/2018	20.5	7	1339	1	47.9	0.87
T-16A	10/9/2018	25.2	7.31	1343	9	-132.6	0.37
T-17A	10/9/2018	24.7	7.36	1106	5	-103.8	1.81
T-19A	10/8/2018	23.5	7.11	1317	21	-128.1	0.88
T-23A	10/9/2018	20.2	7.26	1406	12	-109.8	0.75
T-25A	10/9/2018	23.5	7.31	1351	5	-125.4	0.51
38-S	10/10/2018	21.2	7.08	1441	2	61.9	1.08
Zone B1 Aquifer Wells							
T-2B	Destroyed						
T-4B	10/9/2018	23.5	7.41	1334	1.14	-70	1.19
T-5B	10/11/2018	23.6	7.41	1143	1	5.9	0.61
T-7B	10/9/2018	23.5	7.79	940	1	94.9	3.46
T-8B	10/10/2018	22.4	7.21	1389	6	-81.6	0.69
T-9B	10/11/2018	22.8	7.27	1402	4	9	0.67
T-10B	10/9/2018	22.1	7.43	1068	6	-79.8	2.48
T-17B	10/11/2018	21.6	7.29	1260	5	-43.3	0.57
T-18B	10/8/2018	23.3	7.64	853	3	-98.4	2.04
T-19B	10/9/2018	19.4	7.3	1048	340	205.1	1.6
T-20B	10/10/2018	21.6	7.39	1390	3	67.5	2.66
T-21B	10/10/2018	22.4	7.31	1311	4	32.9	0.81
T-22B	10/11/2018	20.3	7.02	1391	1	75.8	0.81
T-23B	10/10/2018	22.6	7.1	1379	17	27	0.66
T-24B	10/11/2018	21.2	7.51	1319	1	9.8	0.48
Zone B2 Aquifer Wells							
T-2C	Destroyed						
T-10C	10/11/2018	22.8	7.65	872	3	-135.8	0.47
T-11C	10/9/2018	23.7	7.82	942	3	101.6	4.15
T-12C	10/9/2018	21.9	7.61	700	5	57.9	0.79
Zone B3 Aquifer Well							
T-9C	10/9/2018	22.8	7.62	762	1	45.8	0.95

Notes:
°C = degree Celsius
SU = standard units
µS/cm = micro Siemens per centimeter
NTU = Nephelometric Turbidity Unit
mV = millivolts
mg/L = milligram per liter
-- = not analyzed/measured

FIGURES

N

0 1,000 2,000 Feet

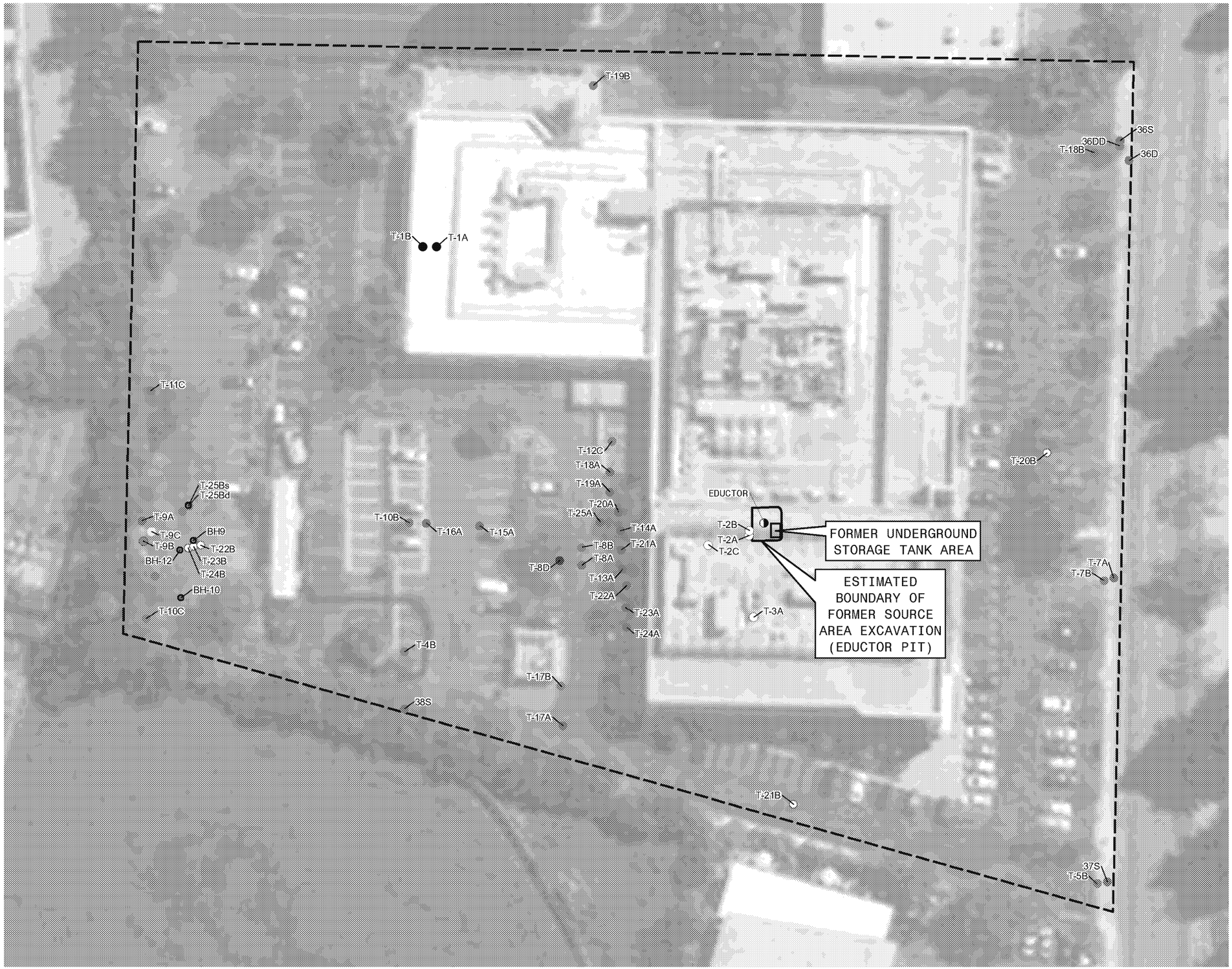
1 " = 2,000 '

Former TRW Microwave Site

Site Location

Date 02-2017	AECOM	Figure
Project No. 60507543		1

File: Q:\DCS\Projects\ENV\ET\DATA\work\60238560_NG\GIS\Projects\Site_Location.mxd
Date: Friday, March 03, 2017 3:08:23 PM



LEGEND

- A-ZONE MONITORING WELL
- B1-ZONE MONITORING WELL
- B2-ZONE MONITORING WELL
- B3-ZONE MONITORING WELL
- B4-ZONE MONITORING WELL
- EDUCTOR - DESTROYED 2014
- NEWLY INSTALLED MONITORING WELL
- MONITORING WELL - DESTROYED 2014
- MONITORING WELL - DESTROYED 2004
- MONITORING WELL - DESTROYED OCTOBER 2019
- PROPERTY BOUNDARY

N

0 25 50 Feet

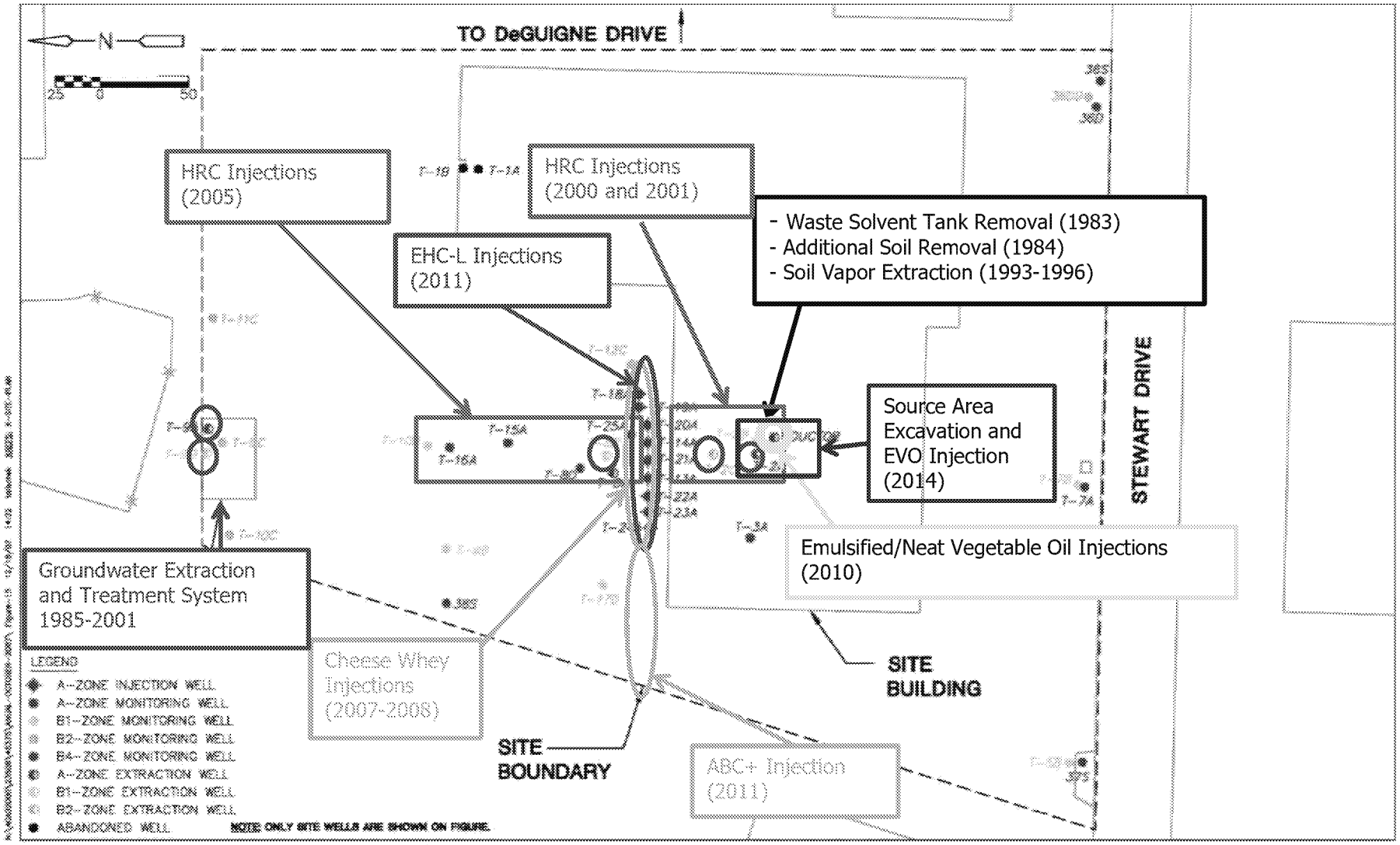
1" = 50'

Former TRW Microwave Site

Site Layout and Well Locations

Date 03-2018	AECOM	Figure
Project No. 60536411		2

File: G:\DCS\Projects\ENVIRO\DATA\work\60236660_NG\GIS\Projects\Site_Layout_Well_Location_Ver_1.mxd
Date: Friday, December 6, 2019 11:43:23 AM



NORTHROP GRUMMAN	Former TRW Microwave Site	
	Previous Remedial Activities	**FIGURE 3**

LEGEND

- ● INDICATES APPROXIMATE LOCATION OF ZONE A MONITORING WELL
- ◐ INDICATES APPROXIMATE LOCATION OF ZONE A EXTRACTION WELL
- (33.02) INDICATES WATER-LEVEL ELEVATION IN ZONE A MONITORING WELL (FEET, MSL) IN OCTOBER 2018
- INDICATES APPROXIMATE POTENTIOMETRIC SURFACE COUNTOUR IN ZONE A IN OCTOBER 2018
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- LOW PERMEABILITY MATERIAL

ABBREVIATION

MSL MEAN SEA LEVEL

N

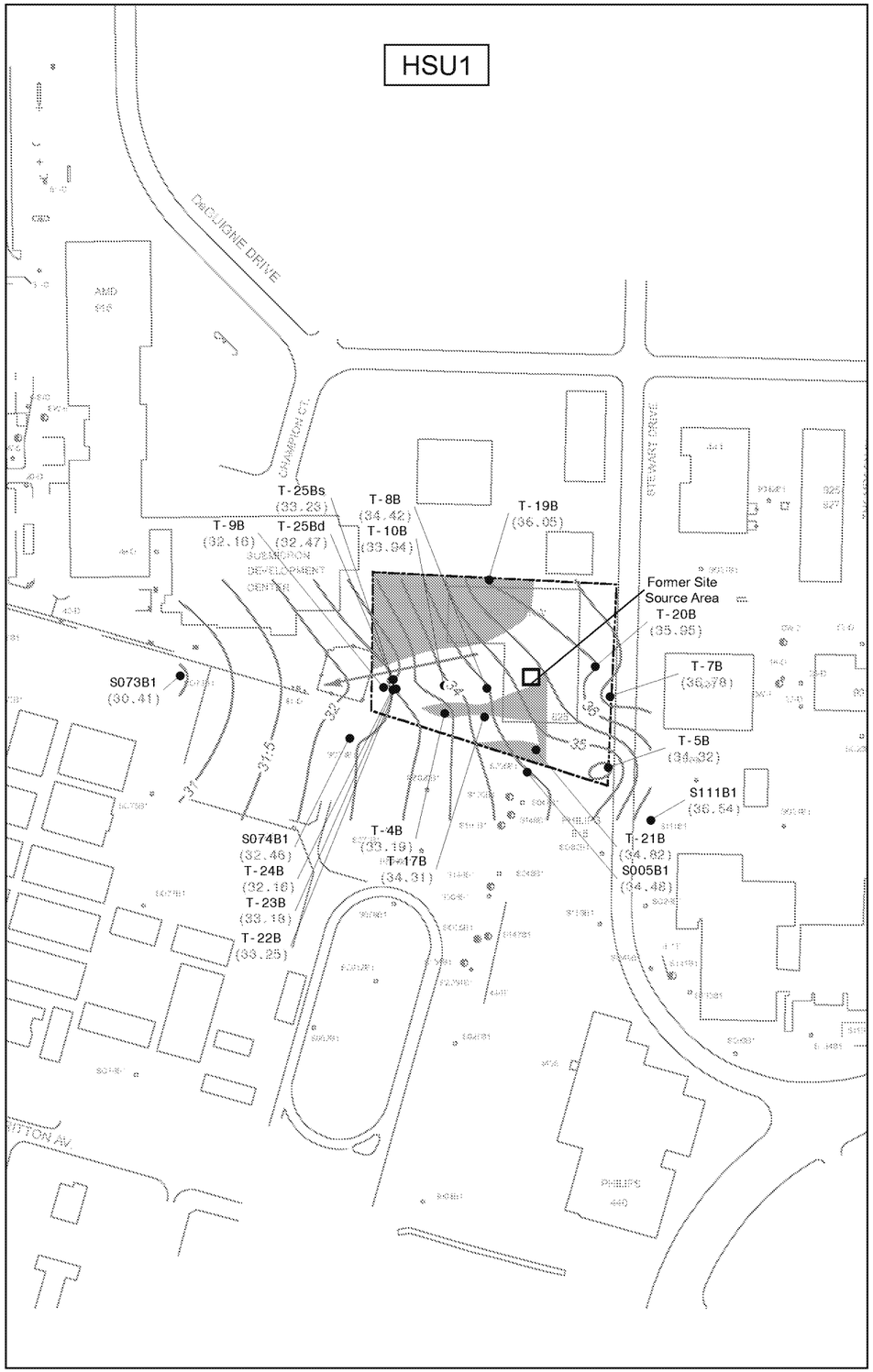
0 150 300 Feet

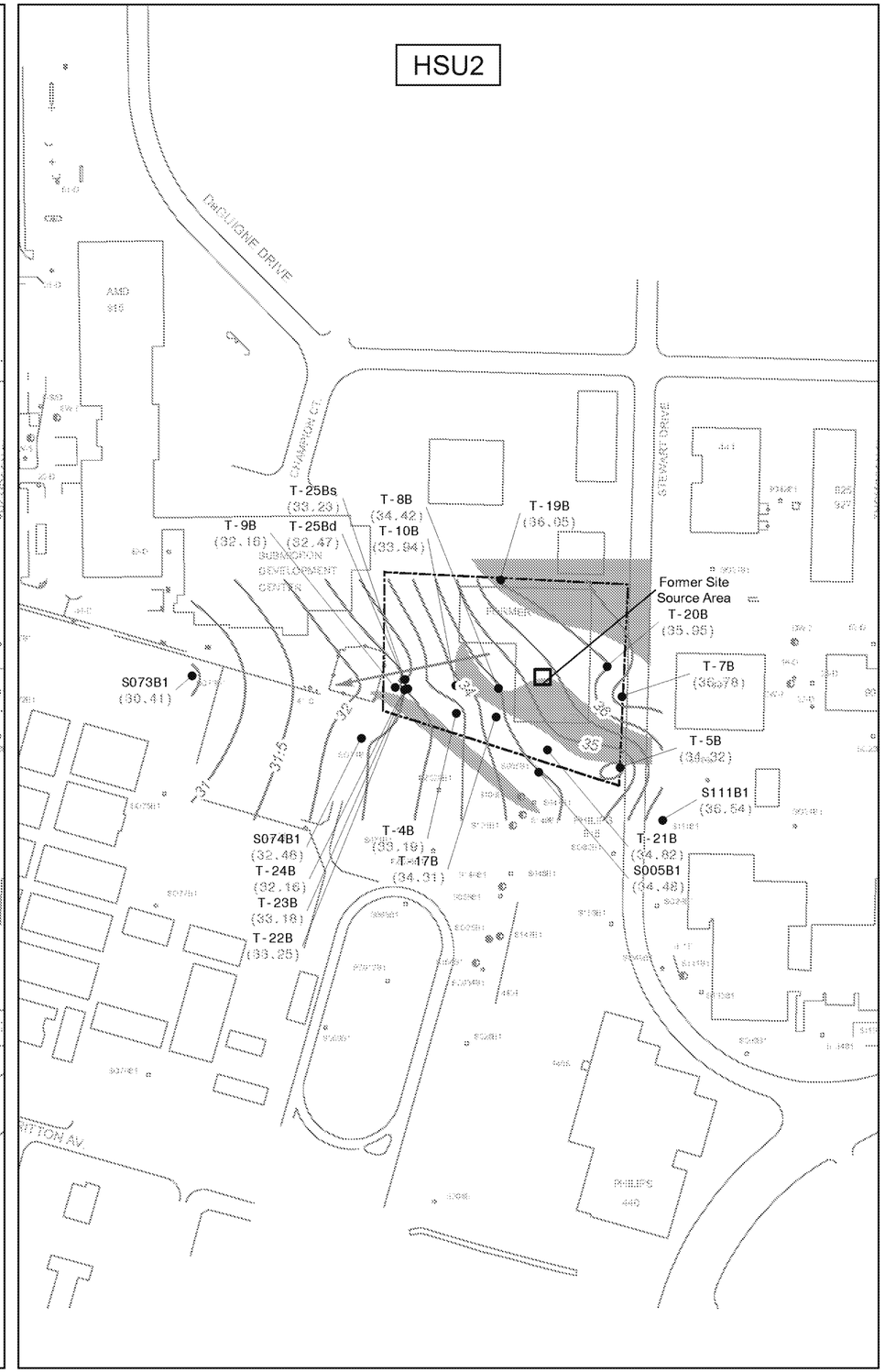
1 " = 300 '

Former TRW Microwave Site
Potentiometric Surface Contours
Zone A
October 2018

Date 10-2019	AECOM	Figure
Project No. 60507543		4

File: Q:\DCS\Projects\ENVIET\DATA\work\60236860_NG\GIS\Projects\Annual_Report_2019\Hydro_Zone A_B2.mxd
Date: Tuesday, October 29, 2019 11:57:27 AM





LEGEND

- ● INDICATES APPROXIMATE LOCATION OF ZONE B1 MONITORING WELL
- ◐ INDICATES APPROXIMATE LOCATION OF ZONE B1 EXTRACTION WELL
- (33.02) INDICATES WATER-LEVEL ELEVATION IN ZONE B1 MONITORING WELL (FEET, MSL) IN OCTOBER 2018
- INDICATES APPROXIMATE POTENTIOMETRIC SURFACE COUNTOUR IN ZONE B1 IN OCTOBER 2018
- HSU1 (10-20 FEET, MSL)
- HSU2 (0-10 FEET, MSL)
- HSU1 APPROXIMATE GROUNDWATER FLOW DIRECTION
- HSU2 APPROXIMATE GROUNDWATER FLOW DIRECTION
- LOW PERMEABILITY MATERIAL

ABBREVIATION

HSU HYDROSTRATIGRAPHIC UNIT
MSL MEAN SEA LEVEL

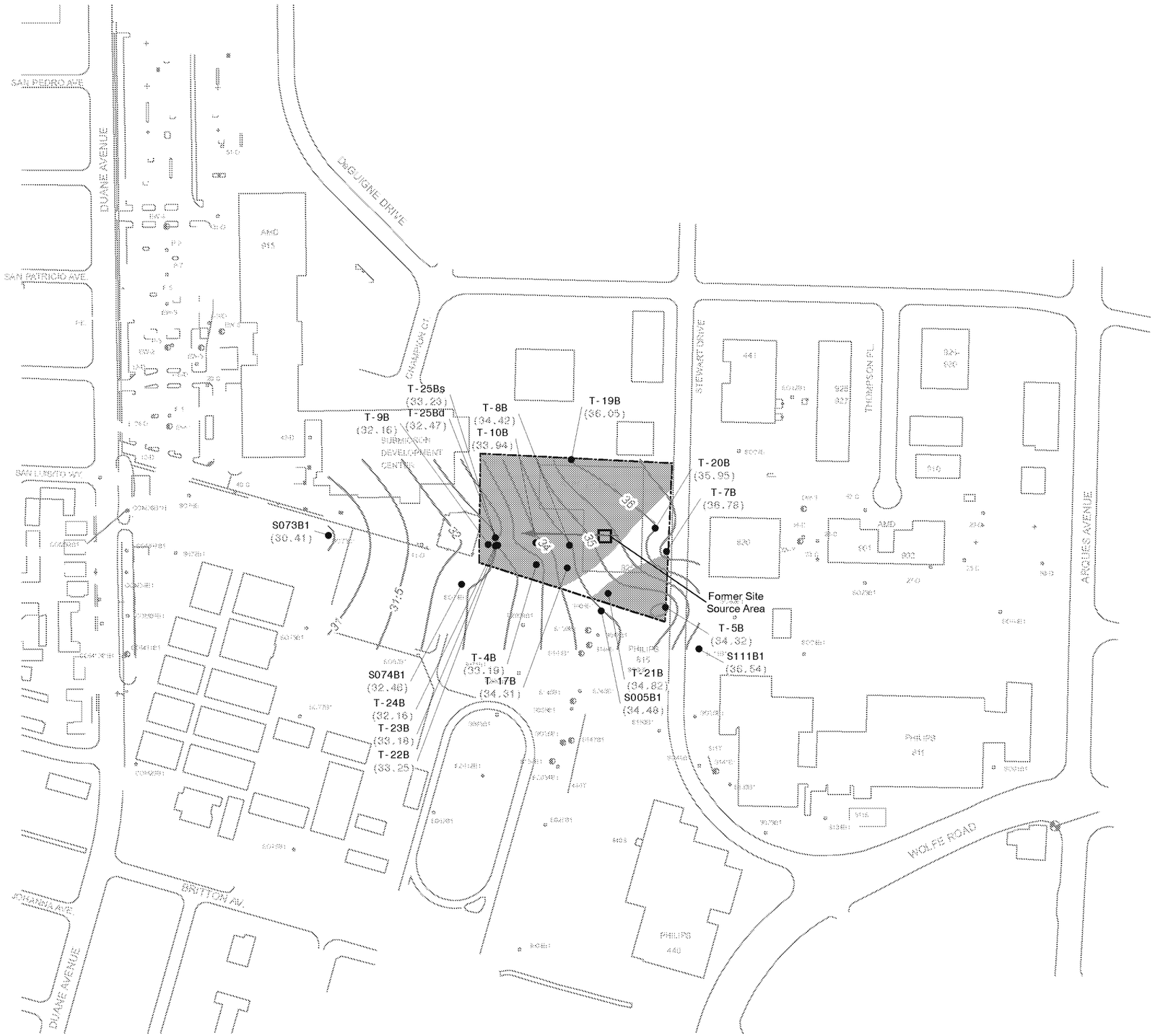
N

0 150 300 Feet
1 " = 300 '

Former TRW Microwave Site
Potentiometric Surface Contours
Zone B1 HSUs 1 and 2 October 2018

Date 10-2019	AECOM	Figure
Project No. 60507543		5

File: G:\DCS\Projects\ENVIET\DATA\work\60236860_NG\GIS\Projects\Annual_Report_2019\Hydro_Units_1_2_B2.mxd
Date: Tuesday, October 29, 2019 2:49:32 PM



LEGEND

- ● INDICATES APPROXIMATE LOCATION OF ZONE B1 MONITORING WELL
- ◐ INDICATES APPROXIMATE LOCATION OF ZONE B1 EXTRACTION WELL
- (33.02) INDICATES WATER-LEVEL ELEVATION IN ZONE B1 MONITORING WELL (FEET, MSL) IN OCTOBER 2018
- INDICATES APPROXIMATE POTENTIOMETRIC SURFACE COUNTOUR IN ZONE B1 IN OCTOBER 2018
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- LOW PERMEABILITY MATERIAL

ABBREVIATION

MSL MEAN SEA LEVEL
HSU HYDROSTRATIGRAPHIC UNIT

N

0 150 300 Feet
1" = 300'

Former TRW Microwave Site
Potentiometric Surface Contours
Zone B1 - HSU 3
October 2018

Date 10-2019	AECOM	Figure
Project No. 60507543		6

File: Q:\DCS\Projects\ENVIET\DATA\work\60238660_NG\GIS\Projects\Annual_Report_2019\Hydro_Zone Unit 3_B2.mxd
Date: Tuesday, October 29, 2019 2:07:21 PM

LEGEND

- ● INDICATES APPROXIMATE LOCATION OF ZONE B2 MONITORING WELL
- ◐ INDICATES APPROXIMATE LOCATION OF ZONE B2 EXTRACTION WELL
- (32.90) INDICATES WATER-LEVEL ELEVATION IN ZONE B2 MONITORING WELL (FEET, MSL) IN OCTOBER 2018
- INDICATES APPROXIMATE POTENTIOMETRIC SURFACE COUNTOUR IN ZONE B2 IN OCTOBER 2018
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- LOW PERMEABILITY MATERIAL

ABBREVIATION

MSL MEAN SEA LEVEL
HSU HYDROSTRATIGRAPHIC UNIT

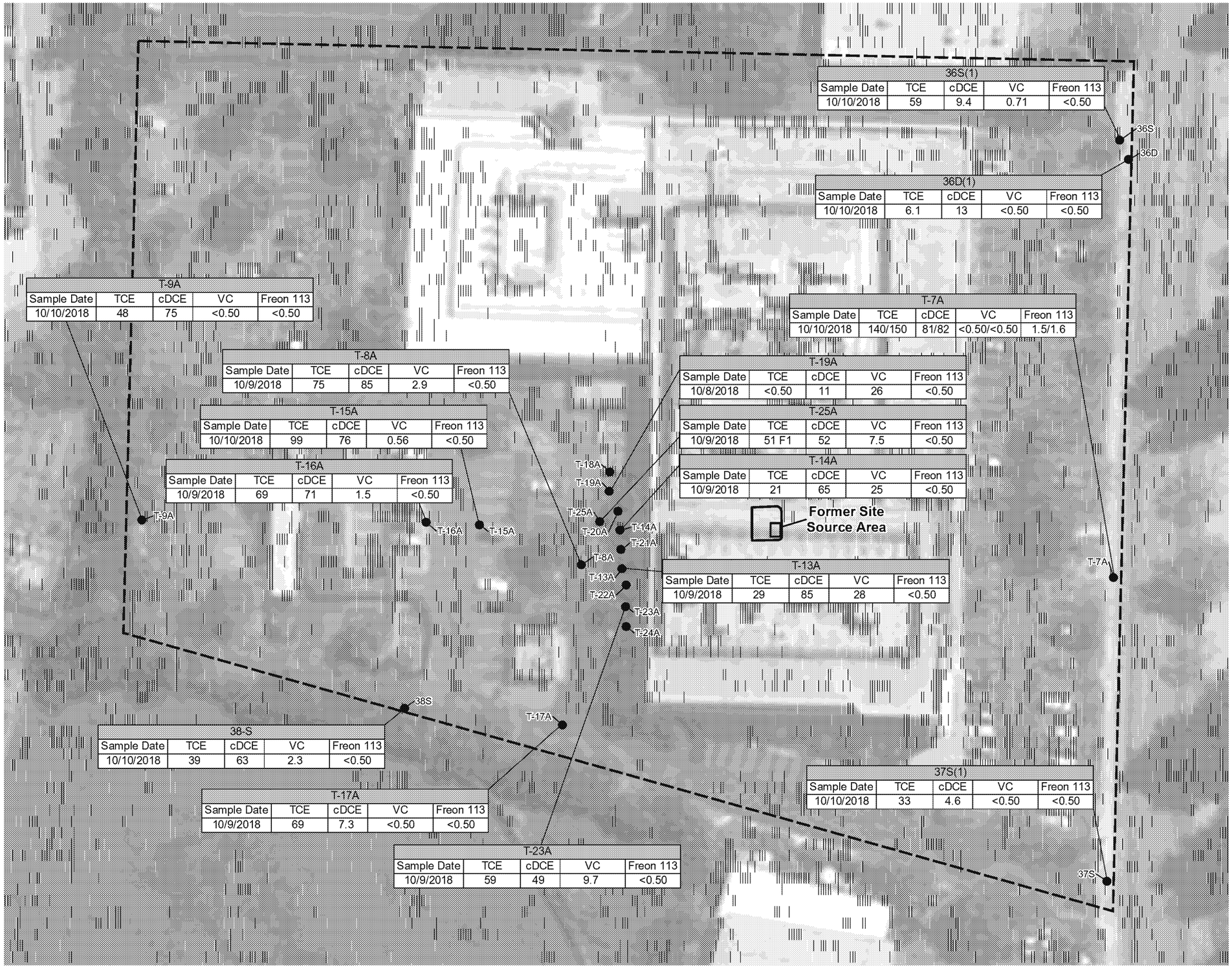
N

0 150 300 Feet
1 " = 300 '

Former TRW Microwave Site
Potentiometric Surface Contours
Zone B2
October 2018

Date 02-2020	AECOM	Figure
Project No. 60507543		7

File: Q:\DCS\Projects\ENVIETDATA\work\60236860_NC\GIS\Projects\Annual_Report_2018\Hydro_Zone B2_B2.mxd
Date: Tuesday, February 18, 2020 12:06:21 PM



36S(1)				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	59	9.4	0.71	<0.50

36D(1)				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	6.1	13	<0.50	<0.50

T-9A				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	48	75	<0.50	<0.50

T-8A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	75	85	2.9	<0.50

T-15A				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	99	76	0.56	<0.50

T-16A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	69	71	1.5	<0.50

T-7A				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	140/150	81/82	<0.50/<0.50	1.5/1.6

T-19A				
Sample Date	TCE	cDCE	VC	Freon 113
10/8/2018	<0.50	11	26	<0.50

T-25A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	51 F1	52	7.5	<0.50

T-14A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	21	65	25	<0.50

T-13A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	29	85	28	<0.50

38-S				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	39	63	2.3	<0.50

T-17A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	69	7.3	<0.50	<0.50

T-23A				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	59	49	9.7	<0.50

37S(1)				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	33	4.6	<0.50	<0.50

LEGEND

- A-ZONE MONITORING WELL
- PROPERTY BOUNDARY

NOTES

cDCE CIS-1,2–DICHLOROETHENE
Freon 113 TRIFLUOROTRICHLOROETHANE
TCE TRICHLOROETHENE
VC VINYL CHLORIDE

N

0 25 50 Feet
1 " = 50 '

Background Study Work Plan

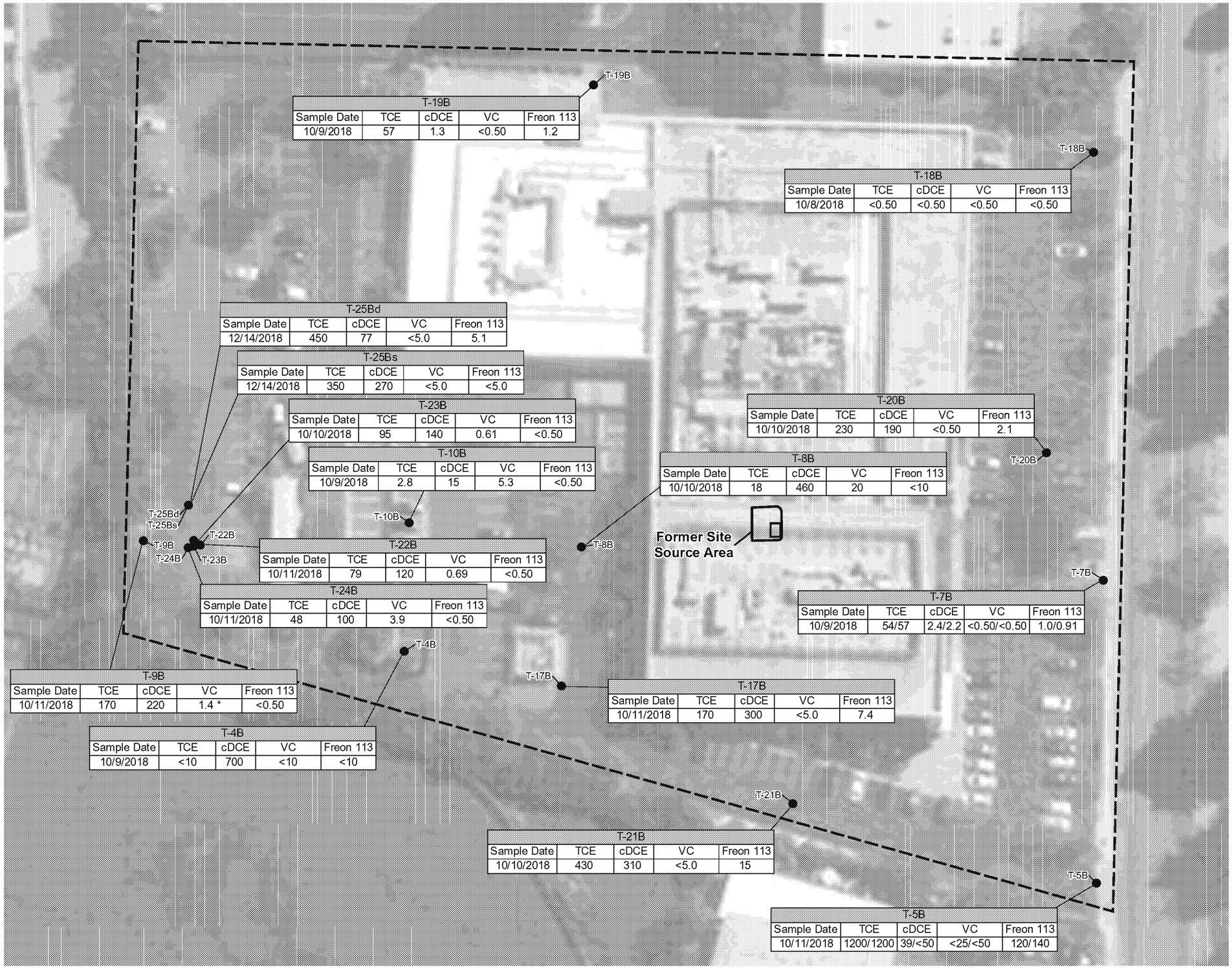
VOC Results
Zone A

Date 12-2018
Project No. 60536411

AECOM

Figure 8

File: G:\DCS\Projects\ENV\ET\DATA\work\60235860_NG\GIS\Projects\VOC_Results_Zone_A_2018.mxd
Date: Wednesday, December 26, 2018 11:09:02 AM



T-19B				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	57	1.3	<0.50	1.2

T-18B				
Sample Date	TCE	cDCE	VC	Freon 113
10/8/2018	<0.50	<0.50	<0.50	<0.50

T-25Bd				
Sample Date	TCE	cDCE	VC	Freon 113
12/14/2018	450	77	<5.0	5.1

T-25Bs				
Sample Date	TCE	cDCE	VC	Freon 113
12/14/2018	350	270	<5.0	<5.0

T-23B				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	95	140	0.61	<0.50

T-20B				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	230	190	<0.50	2.1

T-10B				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	2.8	15	5.3	<0.50

T-8B				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	18	460	20	<10

T-22B				
Sample Date	TCE	cDCE	VC	Freon 113
10/11/2018	79	120	0.69	<0.50

T-24B				
Sample Date	TCE	cDCE	VC	Freon 113
10/11/2018	48	100	3.9	<0.50

T-7B				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	54/57	2.4/2.2	<0.50/<0.50	1.0/0.91

T-9B				
Sample Date	TCE	cDCE	VC	Freon 113
10/11/2018	170	220	1.4 *	<0.50

T-17B				
Sample Date	TCE	cDCE	VC	Freon 113
10/11/2018	170	300	<5.0	7.4

T-4B				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	<10	700	<10	<10

T-21B				
Sample Date	TCE	cDCE	VC	Freon 113
10/10/2018	430	310	<5.0	15

T-5B				
Sample Date	TCE	cDCE	VC	Freon 113
10/11/2018	1200/1200	39/<50	<25/<50	120/140

LEGEND

- B1-ZONE MONITORING WELL
- PROPERTY BOUNDARY

NOTES

cDCE CIS-1,2-DICHLOROETHENE
Freon 113 TRIFLUOROTRICHLOROETHANE
TCE TRICHLOROETHENE
VC VINYL CHLORIDE

N

0 25 50 Feet
1 " = 50 '

Background Study Work Plan

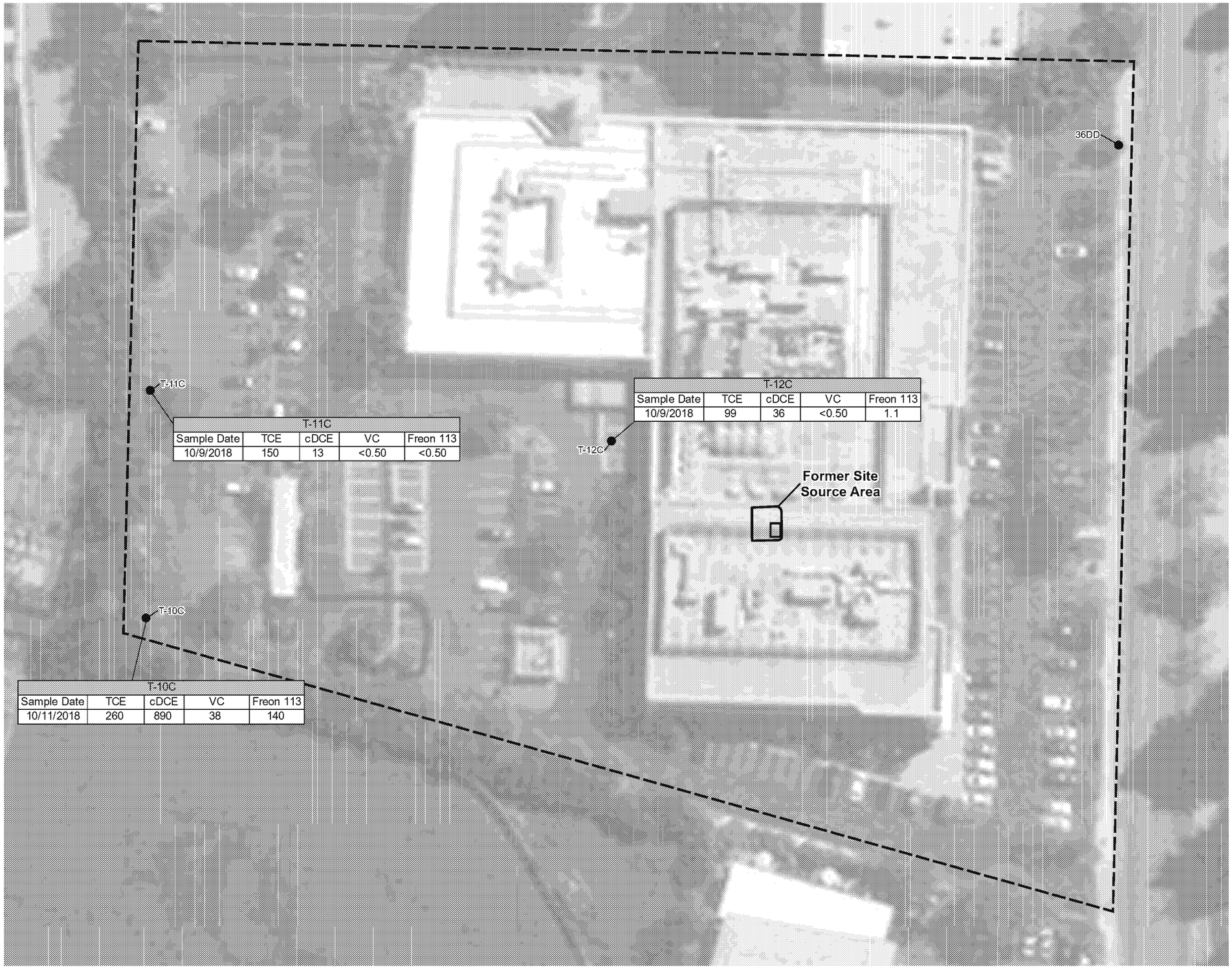
VOC Results
Zone B1

Date 12-2018
Project No. 60536411

AECOM

Figure 9

File: Q:\DCS\Projects\ENVETI\DATA\work\60236860_NG\GIS\Projects\VOC_Results_Zone_B1_2018.mxd
Date: Wednesday, December 26, 2018 11:10:08 AM



T-11C				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	150	13	<0.50	<0.50

T-12C				
Sample Date	TCE	cDCE	VC	Freon 113
10/9/2018	99	36	<0.50	1.1

T-10C				
Sample Date	TCE	cDCE	VC	Freon 113
10/11/2018	260	890	38	140

LEGEND

- B2-ZONE MONITORING WELL
- PROPERTY BOUNDARY

NOTES

cDCE	CIS-1,2-DICHLOROETHENE
Freon 113	TRIFLUOROTRICHLOROETHANE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE

N

0 25 50 Feet

1 " = 50 '

Background Study Work Plan

VOC Results
Zone B2

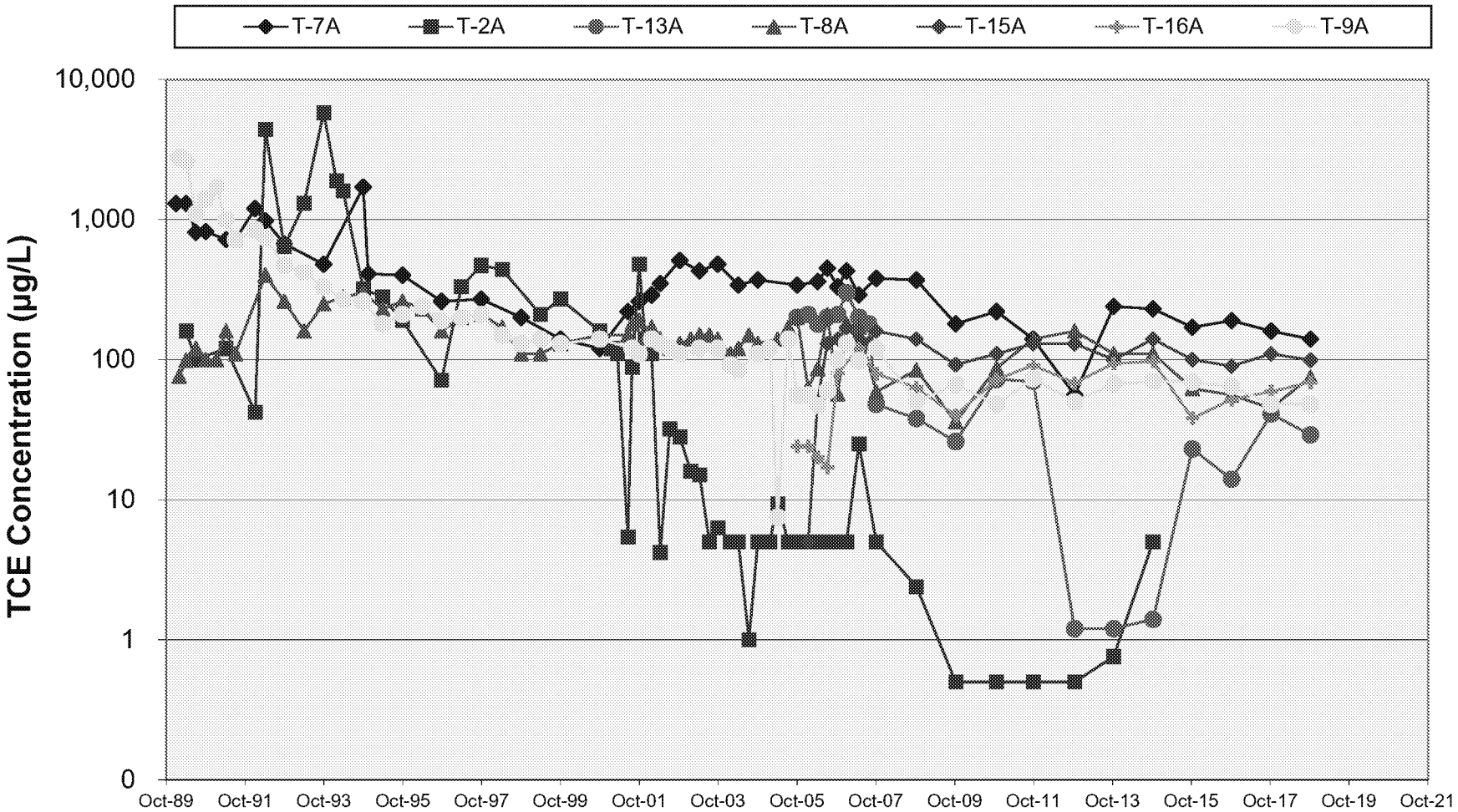
Date 12-2018

Project No. 60536411

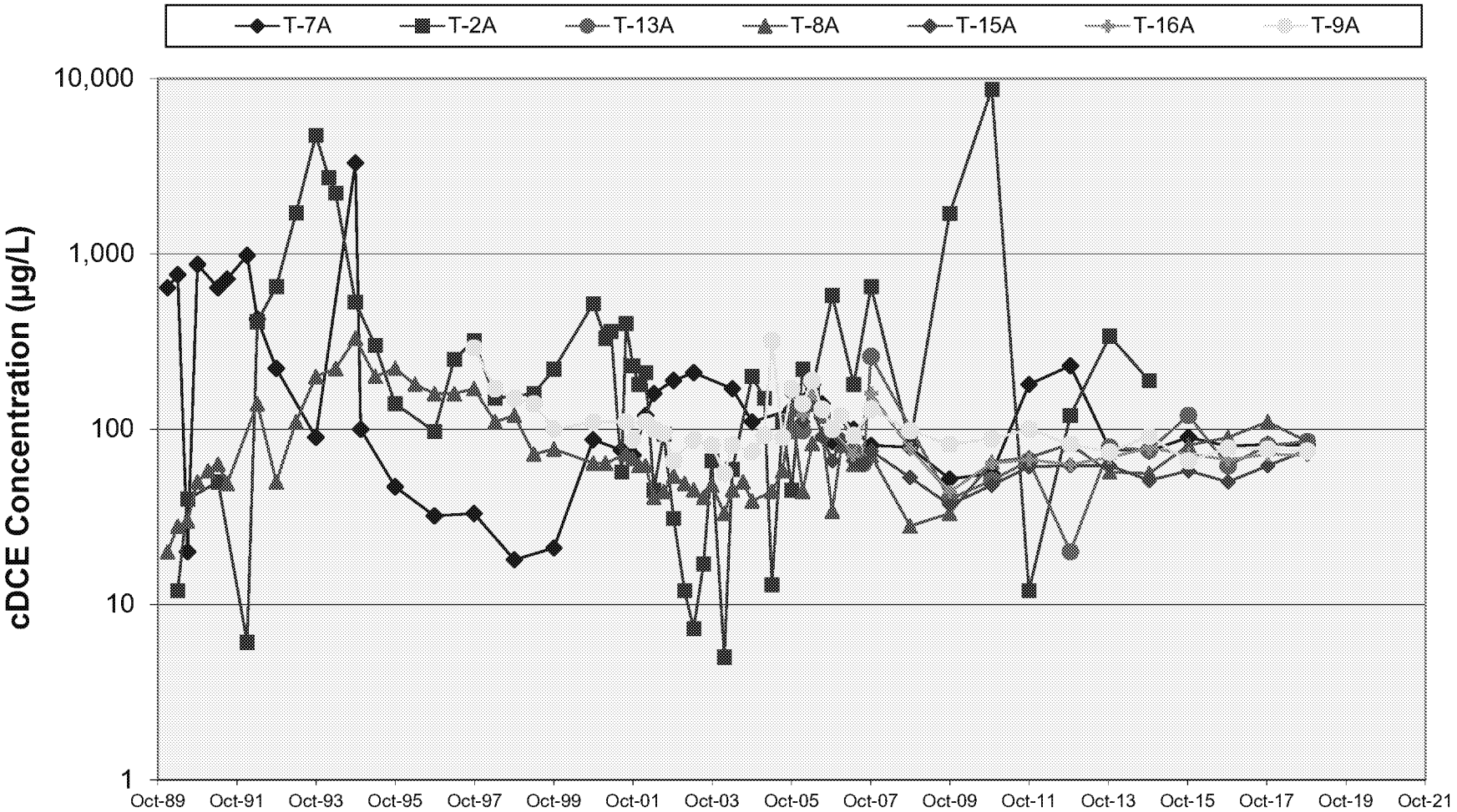
AECOM

Figure 10

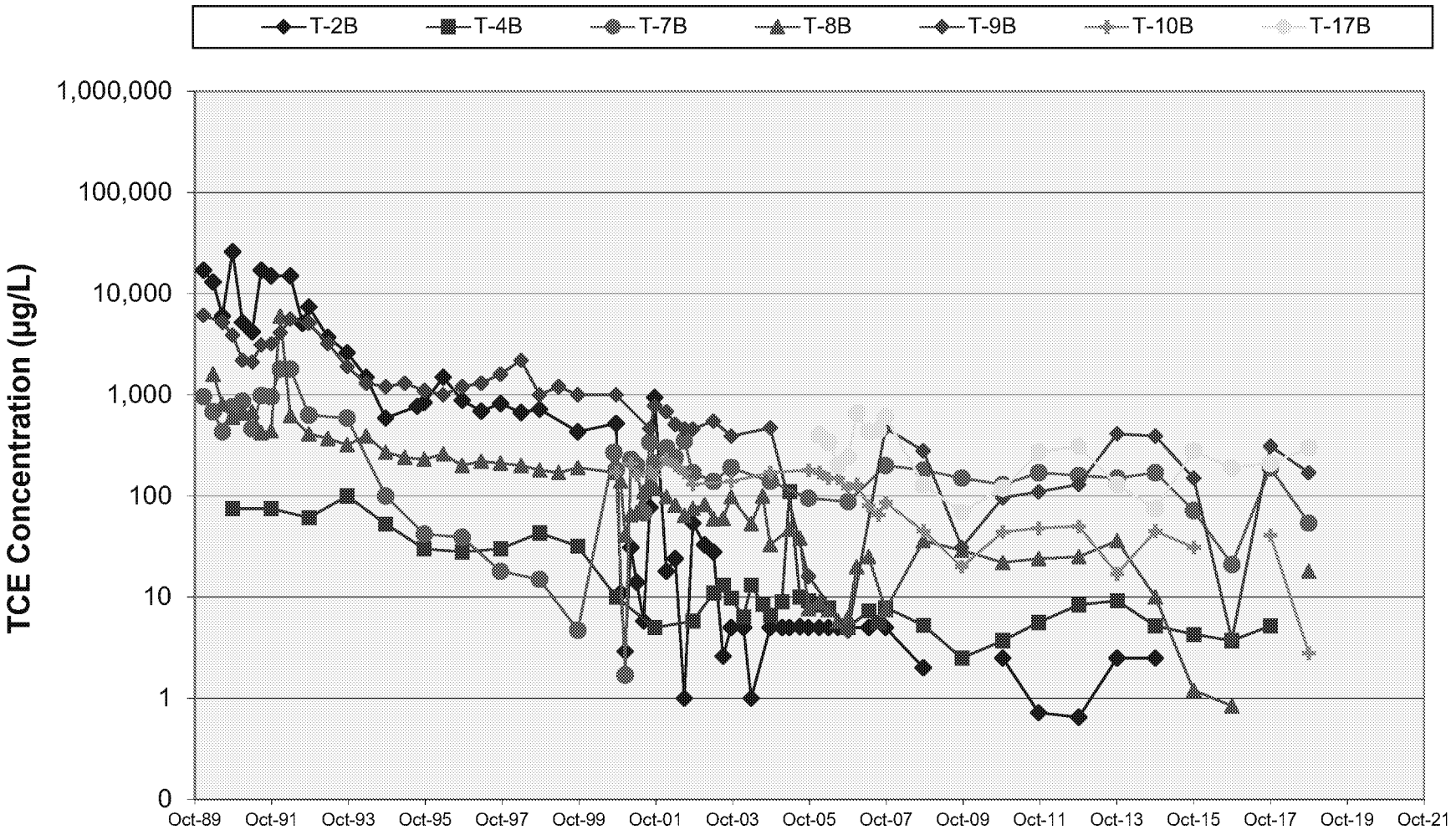
File: Q:\DCS\Projects\ENVIET\DATA\work\60238860_NG\GIS\Projects\VOC_Results_Zone_B2_2018.mxd
Date: Wednesday, December 26, 2018 11:10:28 AM



NORTHROP GRUMMAN	Former TRW Microwave Site **TCE Concentrations vs. Time - Wells T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A** Note: For non-detects less than 5 µg/L, detection limit is presented for the data point. For non-detects .greater than 5 µg/L, the data point has been omitted from the figure	**FIGURE 11**



NORTHROP GRUMMAN	Former TRW Microwave Site **cDCE Concentrations vs. Time - Wells T-2A, T-7A, T-8A, T-9A, T-13A, T-15A, and T-16A** Note: For non-detects less than 5 µg/L, detection limit is presented for the data point. For non-detects greater .than 5 µg/L, the data point has been omitted from the figure. Data reported as total 1,2-DCE prior to 1996	**FIGURE 12**



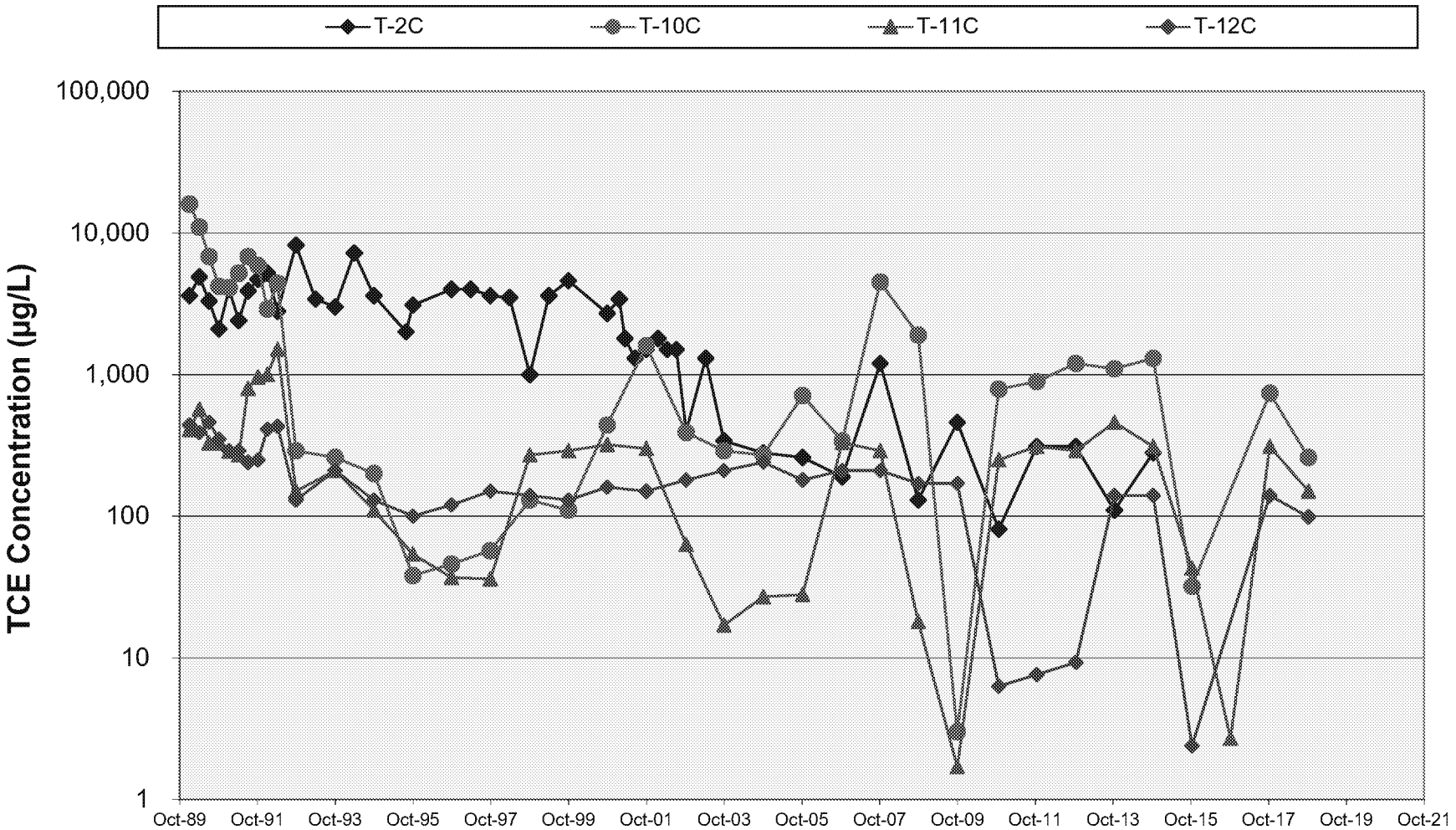
NORTHROP GRUMMAN

Former TRW Microwave Site

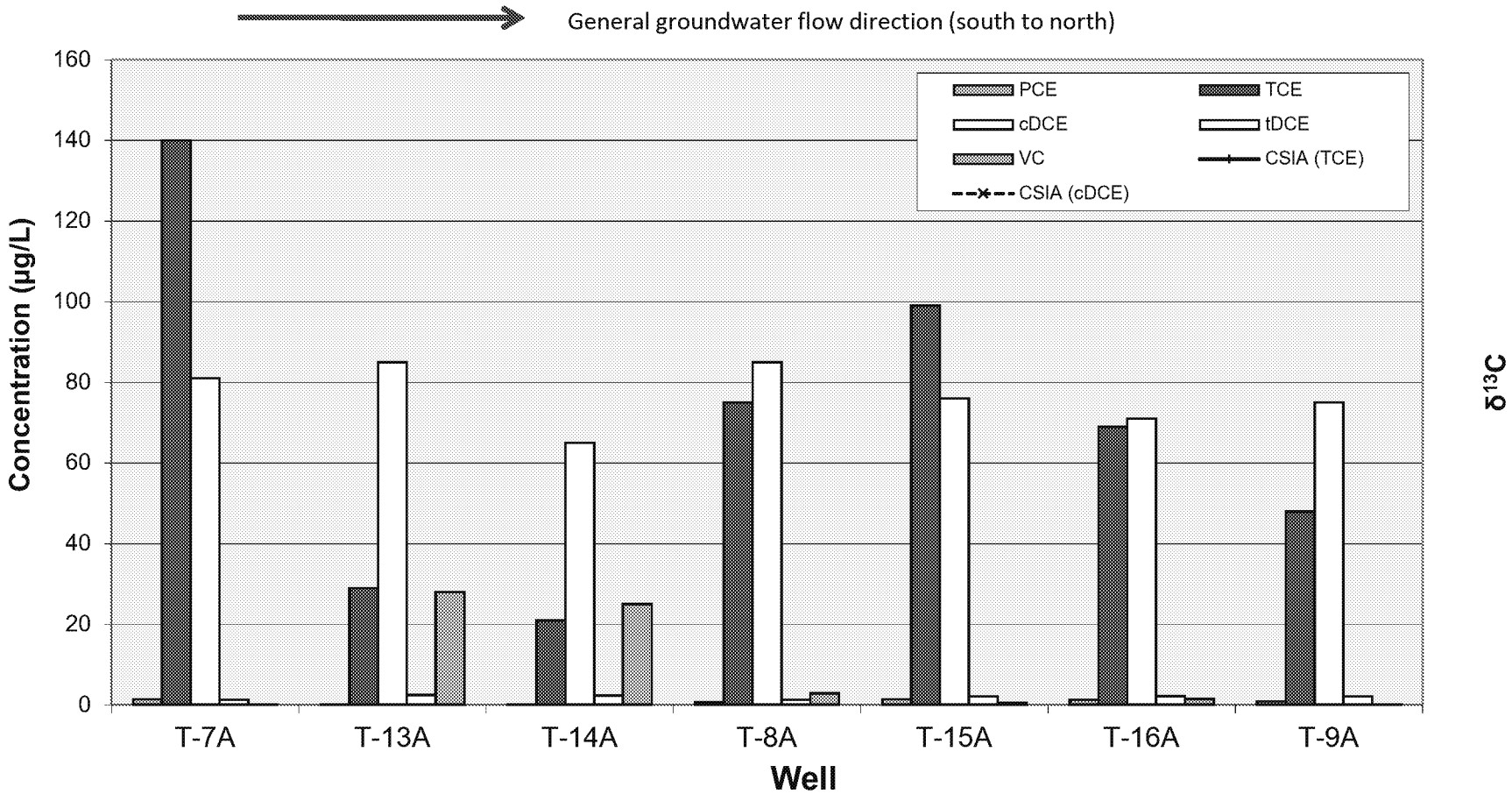
TCE Concentrations vs. Time - Wells T-2B, T-4B, T-7B, T-8B, T-9B, T-10B, and T-17B

Note: For non-detects less than 5 µg/L, detection limit is presented for the data point. For non-detects greater than 5 µg/L, the data point has been omitted from the figure.

FIGURE 13



NORTHROP GRUMMAN	Former TRW Microwave Site **TCE Concentrations vs. Time - Wells T-2C, T-10C, T-11C, and T-12C** Note: For non-detects less than 5 µg/L, detection limit is presented for the data point. For non-detects greater .than 5 µg/L, the data point has been omitted from the figure	**FIGURE 14**



Note: Groundwater flow direction is generally along the wells listed above, from south to north, from onsite well T-7A to well T-9A.

NORTHROP GRUMMAN	Former TRW Microwave Site	
	Chlorinated Ethene Concentrations, Zone A - October 2018	**FIGURE 15**

APPENDICES

Appendix A

Groundwater Low-Flow Sampling Logs

WELL GAUGING SHEET

Project # 181008-D4 Date 10/8/18 Client **AECOM**

Site: **TRW Microwave @ 825 Stewart Dr., Sunnyvale, CA** Page: **1 OF 2**

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	0841	**4**					5.71	20.12	TOC	
36DD	0846	**4**					4.74	55.05	TOC	
36S	1010	**4**					5.92	15.00	TOC	
37S	1001	**4**					6.10	13.02	TOC	
38S	1151	**4**					7.35	14.52	TOC	
T-4B	1255	**4**					7.79	39.22	TOC	
T-5B	1309	**4**					~~7.65~~ 7.63	42.95	TOC	
T-7A	1238	**4**					6.36	18.73	TOC	
T-7B	1235	**4**					4.97	41.51	TOC	
T-8A	0909	**4**					6.21	15.49	TOC	
T-8B	1225	**4**					6.01	35.14	TOC	
T-8DD	0802	4					0.02	100.46	TOC	
T-9A	1204	**4**					6.33	18.24	TOC	
T-9B	1303	**4**					6.79	34.41	TOC	
T-9C	1037	**4**					5.90	63.56	TOC	
T-10B	0926	**2**					6.19	25.14	TOC	
T-10C	1313	**4**					7.21	57.35	TOC	
T-11C	1250	**4**					5.88	55.56	TOC	
T-12C	1240	**2**					5.19	55.02	TOC	
T-13A	1028	**1**					6.40	18.83	TOC	

WELL GAUGING SHEET

Project # 181008-D21 Date 10/8/18 Client **AECOM**

Site: **TRW Microwave @ 825 Stewart Dr., Sunnyvale, CA** Page: **2 OF 2**

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-14A	0942	**1**					6.34	17.93	TOC	
T-15A	1210	**1**					6.14	18.91	TOC	
T-16A	1147	**1**					6.23	18.70	TOC	
T-17A	1016	**2**					6.64	20.14	TOC	
T-17B	1308	**1**					6.41	34.40	TOC	
T-18A	0809	**1**					6.94	19.76	TOC	
T-18B	0819	**2**					4.73	46.26	TOC	
T-19A	0825	**1**					6.61	20.84	TOC	
T-19B	0832	**2**					5.33	39.34	TOC	
T-20A	~~6.43~~ 0930	**1**					6.43	15.89	TOC	
T-20B	1242	**2**					4.70	27.04	TOC	
T-21A	0951	**1**					6.73	17.84	TOC	
T-21B	1247	**2**					6.71	27.34	TOC	
T-22A	0853	**1**					6.16	18.13	TOC	
T-22B	1254	**2**					5.88	24.43	TOC	
T-23A	0859	**1**					7.09	18.00	TOC	
T-23B	1257	**2**					~~5.88~~ 6.10	29.08	TOC	
T-24A	0904	**1**					7.09	18.93	TOC	
T-24B	1300	**2**					7.03	35.50	TOC	
T-25A	1022	**1**					5.82	18.90	TOC	

Former TRW Microwave Facility October 2018 Water Level Form				
Sequence	Well	Water Level (feet bTOC)	Date	Time
1	T-8DD	0.02	10/8/18	0802
2	T-18A	6.94		0809
3	T-18B	4.73		0819
4	T-19A	6.61		0825
5	T-19B	5.33		0832
6	36D	5.71		0841
7	36DD	4.74		0846
8	T-22A	6.16		0853
9	T-23A	7.19		0859
10	T-24A	7.09		0904
11	T-8A	6.21		0909
12	T-10B	6.19		0926
13	T-20A	6.43		0930
14	T-14A	6.34		0942
15	T-21A	6.73		0951
16	37S	6.10		1001
17	36S	6.64		1016
18	T-17A	5.82		1022
19	T-25A	6.40		1028
20	T-13A	5.90		1037
21	T-9C	6.23		1147
22	T-16A	7.35		1151
23	38S	6.33		1204
24	T-9A	6.14		1210
25	T-15A	6.01		1225
26	T-8B	4.97		1235
27	T-7B	5.19		1240
28	T-12C	6.36		1238
29	T-7A	5.88		1250
30	T-11C	7.79		1255
31	T-4B	4.70		1242
32	T-20B	6.71		1247
33	T-21B	5.88		1254
34	T-22B	6.10		1257
35	T-23B	7.03		1300
36	T-24B	6.70		1300
37	T-9B	6.79		1303
38	T-17B	6.41		1308
39	T-5B	7.63		1309
40	T-10C	7.21		1313

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: ~~38S~~ 38S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.50	Depth to Water Pre: 7.35 Post: 7.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0733 Flow Rate: 200 ml/min Pump Depth: 12'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
0736	20.3	7.00	1513	3	2.84	108.4	600	7.39
0739	20.6	7.01	1514	4	2.52	95.3	1200	7.42
0742	20.7	7.01	1509	2	2.18	84.4	1800	7.45
0745	20.9	7.03	1490	2	1.80	74.7	2400	7.45
0748	21.0	7.04	1479	4	1.56	70.6	3000	7.45
0751	21.0	7.05	1458	2	1.31	67.3	3600	7.45
0754	21.0	7.06	1451	2	1.20	65.4	4200	7.46
0757	21.0	7.07	1449	2	1.11	64.1	4800	7.46
0800	21.1	7.08	1444	2	1.09	63.0	5400	7.46
0803	21.2	7.08	1441	2	1.08	61.9	6000	7.46

Did well dewater? Yes (No)	Amount actually evacuated: 6000 ml
Sampling Time: 0805	Sampling Date: 10/10/18
Sample I.D.: J6038- 38S-101018	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: TRIP blank-J6038-101018 @ 0715 (Time)	Duplicate I.D.: @ (Time)
Analyzed for: **HVOC's (8260B)**	

BLAINE TECH SERVICES, INC. SAN JOSE SACRAMENTO LOS ANGELES SAN DIEGO SEATTLE PHOENIX www.blainetech.com

* Possible roots

LOW FLOW WELL MONITORING DATA SHEET

Project #: 18009-DU1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/9/18
Well I.D.: T-4B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 39.22	Depth to Water Pre: 7.79 Post: 7.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1417 Flow Rate: 200 ml/min Pump Depth: 36'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1420	23.1	7.37	1294	3	2.22	-35.9	600	7.82
1423	23.9	7.40	1304	2	1.96	-50.0	1200	7.85
1426	23.6	7.40	1328	1	1.90	-51.8	1800	7.88
1429	23.5	7.40	1330	1	1.61	-57.4	2400	7.90
1431	23.5	7.41	1333	1	1.52	-63.6	3000	7.91
1434	23.5	7.41	1334	1	1.39	-65.9	3600	7.92
1437	23.6	7.41	1336	1	1.25	-66.6	~~4200~~ 4200 DD	7.92
1440	23.4	7.41	1336	1	1.21	-68.1	4800	7.92
1443	23.5	7.41	1334	1	1.19	-70.0	5400	7.92

Did well dewater? Yes (No)	Amount actually evacuated: 5400 ml
Sampling Time: 1445	Sampling Date: 10/9/18
Sample I.D.: J6038- T4B-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-5B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 42.95	Depth to Water Pre: 7.63 Post: 7.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1238 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 / Observations
1241	23.6	7.44	1077	1	3.12	66.0	600	7.63
1244	23.4	7.42	1125	1	1.64	52.5	1200	7.63
1247	23.2	7.42	1137	1	1.25	40.4	1800	7.63
1250	23.6	7.42	1139	1	1.00	29.5	2400	7.63
1253	24.0	7.42	1140	1	0.88	24.2	3000	7.63
1256	24.0	7.42	1143	1	0.80	20.8	3600	7.63
1259	24.0	7.41	1147	1	0.72	15.4	4200	7.63
1302	23.9	7.42	1143	1	0.61	9.5	4800	7.63
1305	23.8	7.41	1143	1	0.60	7.8	5400	7.63
1308	23.6	7.41	1143	1	0.61	5.9	6000	7.63

Did well dewater? Yes (No)	Amount actually evacuated: 6000 ml
Sampling Time: 1310	Sampling Date: 10/11/18
Sample I.D.: J6038- T5B-101118-1	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: J6038- T5B-101118-2 @ Time 1315
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-7A	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 18.73	Depth to Water Pre: 6.36 Post: 6.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1129 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 / Observations
1132	24.5	7.06	1602	1	2.30	73.5	600	6.39
1135	23.9	7.06	1602	1	1.57	61.8	1200	6.39
1138	24.6	7.06	1600	1	1.24	55.1	1800	6.40
1141	24.7	7.06	1609	1	1.10	49.0	2400	6.40
1144	24.9	7.06	1611	1	0.90	44.8	3000	6.40
1147	25.1	7.06	1611	1	0.84	38.3	3600	6.40
1150	25.2	7.06	1613	1	0.70	34.4	4200	6.40
1153	25.1	7.06	1613	1	0.68	33.0	4800	6.40
1156	25.2	7.06	1613	1	0.69	31.1	5400	6.40

Did well dewater? Yes (No)	Amount actually evacuated: 5400 ml
Sampling Time: 1200	Sampling Date: 10/10/18
Sample I.D.: J6038- T7A-101018-1	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: J6038-T7A-101018-2 @ Time 1205
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DC1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DC	Start Date: 10/9/18
Well I.D.: T-7B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 41.51	Depth to Water Pre: 4.97 Post: 5.11
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI ProPlus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1057 Flow Rate: 200 ml/min Pump Depth: 38'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1100	23.1	7.86	923	3	4.37	96.5	600	(DO) ~~4.~~ 5.02
1103	23.3	7.82	933	2	3.92	96.9	1200	5.07
1106	23.5	7.81	936	1	3.77	97.2	1800	5.10
1109	23.4	7.80	940	1	3.69	96.7	2400	5.10
1112	23.4	7.80	940	1	3.50	95.9	3000	5.10
1115	23.5	7.79	939	1	3.48	95.3	3600	5.10
1118	23.5	7.79	940	1	3.46	94.9	4200	5.11

Did well dewater? Yes (No)	Amount actually evacuated: 4200 ml
Sampling Time: 1120	Sampling Date: 10/9/18
Sample I.D.: J6038-T7B-100918-1	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: J6038-T7B-100918-2 @ 1125 Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~1808~~ ~~180810DL-1~~ 181008DL-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-8-18
Well I.D.: T-8A	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 15.49'	Depth to Water Pre: 6.05 Post: 6.07
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: **(Peristaltic Pump)** **Bladder Pump** Other: _____

Sampling Method: **(New Tubing)** Other: _____

Start Purge: 0939 Flow Rate: 200 mL/min Pump Depth: 12.5'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
0940	22.9	7.31	1272	11	2.06	-64.8	200	6.05/Clear
0943	22.9	7.30	1268	11	0.76	-87.7	800	6.05
0946	22.9	7.32	1270	8	0.64	-101.4	1400	6.05
0949	22.9	7.34	1272	8	0.61	-108.5	2000	6.07
0952	22.9	7.30	1273	6	0.57	-110.5	2600	6.07
0955	23.0	7.48	1276	6	0.54	-132.3	3200	6.07
0958	22.9	7.46	1282	6	0.50	-129.6	3800	6.07
1001	22.8	7.45	1288	6	0.45	-137.2	4400	6.07

Did well dewater? Yes (No)	Amount actually evacuated: 4400 ml
Sampling Time: 1005	Sampling Date: 10/09/18
Sample I.D.: J6038-T8A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-8B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 36.14	Depth to Water Pre: 6.01 Post: 6.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1030 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 / Observations
1033	22.2	7.15	1385	3	2.36	-62.7	600	6.05
1036	22.1	7.18	1384	5	1.80	-65.7	1200	6.09
1039	22.4	7.19	1387	13	1.44	-69.7	1800	6.11
1042	22.3	7.21	1386	15	1.17	-71.4	2400	6.13
1045	22.4	7.21	1390	13	1.05	-76.0	3000	6.15
1048	22.4	7.21	1388	7	0.91	-77.4	3600	6.16
1051	22.4	7.22	1389	8	0.84	-78.6	4200	6.17
1054	22.4	7.22	1389	9	0.72	-79.2	4800	6.18
1057	22.4	7.22	1391	7	0.70	-81.0	5400	6.19
1100	22.4	7.21	1389	6	0.69	-81.6	6000	6.19

Did well dewater? Yes (No)	Amount actually evacuated: 6000 ml
Sampling Time: 1105	Sampling Date: 10/10/18
Sample I.D.: J6038- T8B-101018	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-9A	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 18.24	Depth to Water Pre: 6.33 Post: 6.37
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0833 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 / Observations
0836	20.8	7.03	1258	2	2.55	81.8	600	6.35
0839	21.0	7.03	1288	2	2.20	76.0	1200	6.36
0842	21.1	7.04	1299	2	1.71	68.8	1800	6.36
0845	21.7	7.05	1297	2	1.40	62.5	2400	6.36
0848	22.0	7.07	1307	2	1.19	57.4	3000	6.36
0851	21.9	7.08	1318	2	1.08	53.1	3600	6.36
0854	22.0	7.09	1326	2	1.01	48.5	4200	6.37
0857	22.1	7.09	1335	2	0.92	44.4	4800	6.37
0900	22.3	7.09	1340	2	0.90	41.2	5400	6.37
0903	22.4	7.09	1344	2	0.88	39.0	6000	6.37

Did well dewater? Yes (No) Amount actually evacuated: 6000 ml

Sampling Time: 0905 Sampling Date: 10/10/18

Sample I.D.: J6038- T9A -101018 Laboratory: **Test America - SF**

Analyzed for: **HVOC's (8260B)**

Blank I.D.: @ Time Duplicate I.D.: @ Time

Analyzed for: **HVOC's (8260B)**

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL 1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-9B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 34.41	Depth to Water Pre: 6.79 Post: 6.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1004 Flow Rate: 200 mL/min Pump Depth: 32.5'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1007	22.0	8.33	506	5	2.44	45.6	600	6.79
1010	21.6	8.37	495	4	2.13	36.1	1200	6.79
1013	21.5	8.37	495	4	2.08	31.7	1800	6.79
1016	21.5	8.35	495	5	1.91	27.6	2400	6.79
1019	21.9	8.32	495	5	1.86	25.8	3000	6.79
1022	21.9	8.17	504	4	1.80	26.0	3600	6.79
1025	22.0	7.95	517	5	1.77	28.5	4200	6.79
1028	22.2	7.50	638	5	1.60	36.7	4800	6.79
1031	22.2	7.31	932	5	1.40	39.6	5400	6.79
1034	22.4	7.28	1099	5	1.38	36.5	6000	6.79

Did well dewater? Yes (No)	Amount actually evacuated: 10800 ml
Sampling Time: 1100	Sampling Date: 10/11/18
Sample I.D.: J6038- T9B-101118	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DC1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-9B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 34.41	Depth to Water Pre: 6.79 Post: 6.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1004 Flow Rate: 200 mL/min Pump Depth: 32.5'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1037	22.4	7.28	1160	4	1.26	34.0	6600	6.79
1040	22.6	7.27	1235	4	1.11	29.7	7200	6.79
1043	22.5	7.27	1302	4	0.98	25.2	7800	6.79
1046	22.4	7.27	1369	4	0.87	20.1	8400	6.79
1049	22.6	7.27	1366	3	0.76	17.2	9000	6.79
1051	22.7	7.28	1383	3	0.70	14.3	9600	6.79
1054	22.7	7.28	1396	3	0.68	10.9	10200	6.79
1057	22.8	7.27	1402	4	0.67	9.0	10800	6.79

Did well dewater? Yes (No)	Amount actually evacuated: 10800 ml
Sampling Time: 1100	Sampling Date: 10/11/18
Sample I.D.: J6038-T9B-101118	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/9/18
Well I.D.: T-9C	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 63.56	Depth to Water Pre: 5.90 Post: 6.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** (**Bladder Pump**) Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0959 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 / Observations
1002	22.1	8.04	773	18	2.52	124.0	600	5.94
1005	22.6	8.03	763	7	1.86	89.4	1200	5.97
1008	22.4	8.03	764	5	1.50	69.3	1800	5.99
1011	22.4	8.02	765	6	1.27	60.0	2400	6.01
~~HOT~~ 1014	22.6	8.02	764	4	1.09	56.6	3000	6.01
1017	22.6	8.02	763	2	1.00	53.1	3600	6.01
1020	22.7	8.02	763	1	0.97	49.9	4200	6.02
1023	22.8	8.02	762	1	0.95	45.8	4800	6.02

Did well dewater? Yes (No)	Amount actually evacuated: 4800 ml
Sampling Time: 1025	Sampling Date: 10/9/18
Sample I.D.: J6038- T9C - 100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~1808100L-1~~ 1810080L-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-8-18
Well I.D.: T-10B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: ~~32.00~~ (KS) 25.14	Depth to Water Pre: 6.20 Post: 6.29
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1024 Flow Rate: 200mL/min Pump Depth: 27'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations	
1025	22.1	7.44	1064	8	2.78	-75.8	200	6.20	Clear
1028	22.3	7.40	1066	8	2.76	-76.6	800	6.23	
1031	22.2	7.47	1068	8	2.75	-79.7	1400	6.25	
1034	22.1	7.41	1068	7	2.75	-74.2	2000	6.25	
1037	22.2	7.36	1068	6	2.63	-71.7	2600	6.26	
1040	22.1	7.54	1068	6	2.64	-86.7	3200	6.28	
1043	22.1	7.38	1068	6	2.53	-71.5	3800	6.29	
1046	22.1	7.40	1068	6	2.49	-75.6	4400	6.29	
1049	22.1	7.43	1068	6	2.48	-79.8	5000	6.29	

Did well dewater? Yes (No)	Amount actually evacuated: 5000 ml
Sampling Time: 1050	Sampling Date: 10-9-18
Sample I.D.: J6038-T10B-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-10C	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 57.35	Depth to Water Pre: 7.21 Post: 7.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** (circled) Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1430 Flow Rate: 200mL/min Pump Depth: 54'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations	
1433	23.2	7.67	878	2	1.88	-94.3	600	7.26	color
1436	22.8	7.63	867	4	1.20	-112.4	1200	7.29	
1439	22.8	7.62	864	4	0.94	-124.3	1800	7.31	
1442	22.8	7.62	864	4	0.84	-130.6	2400	7.31	
1445	22.7	7.61	866	3	0.74	-136.3	3000	7.31	
1448	22.7	7.62	866	3	0.66	-138.6	3600	7.31	
1451	22.9	7.62	866	3	0.60	-138.5	4200	7.32	
1454	22.7	7.63	870	3	0.50 ~~0.56~~	-135.3	4800	7.32	
1457	22.8	7.64	870	3	0.48	-137.0	5400	7.32	
1500	22.8	7.65	872	3	0.47	-135.8	6000	7.32	

Did well dewater? Yes (No) Amount actually evacuated: 6000 ml

Sampling Time: 1505 Sampling Date: 10/11/18

Sample I.D.: J6038- T10C-101118 Laboratory: **Test America - SF**

Analyzed for: **HVOC's (8260B)**

Blank I.D.: J6038-Drums-101118 @ Time 1520 Duplicate I.D.: @ Time

Analyzed for: **HVOC's (8260B)**

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/9/18
Well I.D.: T-11C	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 55.56	Depth to Water Pre: 5.88 Post: 5.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1256 Flow Rate: 200 ml/min Pump Depth: 51'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1259	24.0	7.65	774	5	4.14	100.7	600	5.90
1302	23.7	7.79	912	5	4.31	100.9	1200	5.92
1305	23.7	7.80	927	3	4.25	101.1	1800	5.92
1308	23.8	7.81	934	3	4.20	101.3	2400	5.92
1311	23.8	7.82	941	3	4.16	101.7	3000	5.92
1314	23.7	7.82	942	3	4.15	101.6	3600	5.92

Did well dewater? Yes (No)	Amount actually evacuated: 3600 ml
Sampling Time: 1315	Sampling Date: 10/9/18
Sample I.D.: J6038- T11C-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DC 1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DC	Start Date: 10/9/18
Well I.D.: T-12C	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 55.62	Depth to Water Pre: 5.19 Post: 5.29
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1150 Flow Rate: 200 mL/min Pump Depth: 50'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1153	22.1	8.98	282	13	2.46	50.0	600	5.22
1156	22.2	8.93	282	12	1.69	48.0	1200	5.25
1159	21.9	8.96	285	7	1.25	38.9	1800	5.29
1201	21.9	8.90	297	6	1.11	37.1	2400	5.30
1204	21.9	8.81	313	6	1.00	37.0	3000	5.29
1207	21.7	8.53	365	6	0.92	39.6	3600	5.29
1210	21.6	8.00	487	6	0.84	46.3	4200	5.29
1213	21.8	7.66	640	5	0.79	53.9	4800	5.28
1216	21.7	7.63	666	5	0.77	56.5	5400	5.28
1219	21.9	7.61	700	5	0.79	57.9	6000	5.29

Did well dewater? Yes (No) Amount actually evacuated: 6000 ml

Sampling Time: 1220 Sampling Date: 10/9/18

Sample I.D.: J6038- T12C-100918 Laboratory: **Test America - SF**

Analyzed for: **HVOC's (8260B)**

Blank I.D.: @ Time Duplicate I.D.: @ Time

Analyzed for: **HVOC's (8260B)**

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~180810DL-1~~ 181008DL-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-9-18
Well I.D.: T-13A	Well Diameter: 2 3 4 6 8 1"
Total Well Depth: 18.83	Depth to Water Pre: 6.50 Post: 6.51
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1404 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 / Observations	
1405	21.4	7.33	1300	7	1.67	-92.2	200	6.50	Clear
1408	21.4	7.36	1322	6	0.52	-111.9	800	6.53	
1411	21.4	7.37	1322	5	0.47	-119.0	1400	6.53	
1414	21.3	7.38	1313	5	0.52	-123.3	2000	6.51	
1417	21.3	7.38	1300	4	0.49	-125.2	2600	6.51	
1420	21.3	7.39	1291	4	0.43	-130.5	3200	6.51	
1423	21.2	7.39	1280	4	0.39	-132.5	3800	6.51	
1426	21.2	7.39	1278	4	0.37	-131.8	4400	6.51	

Did well dewater? Yes (No)	Amount actually evacuated: 4400 ml
Sampling Time: 1430	Sampling Date: 10-9-18
Sample I.D.: J6038-T13A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~180810DL-1~~ 181008DL-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-08-18
Well I.D.: T-14A	Well Diameter: 2 3 4 6 8 1"
Total Well Depth: 17.93	Depth to Water Pre: 6.35 Post: 6.41
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1118 Flow Rate: 200 mL/min Pump Depth: 12'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1119	21.0	7.33	1285	12	0.86	-208.8	200	6.35 Clear Odor
1122	20.9	7.31	1300	10	0.60	-213.2	800	6.38
1125	20.8	7.32	1310	9	0.55	-213.6	1400	6.41
1128	20.9	7.28	1314	8	0.59	-210.9	2000	6.41
1131	20.9	7.31	1317	7	0.54	-213.7	2600	6.41
1134	20.9	7.33	1319	7	0.52	-213.6	3200	6.41

Did well dewater? Yes No	Amount actually evacuated: 3200 ml
Sampling Time: 1135	Sampling Date: 10-9-18
Sample I.D.: J6038-T14A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 18008-D21	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-15A	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 18.91	Depth to Water Pre: 6.14 Post: 6.18
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI ProPlus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0938 Flow Rate: 200ml/min Pump Depth: 15'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
0941	20.9	6.99	1317	3	2.87	-12.0	600	6.16
0944	20.7	6.98	1334	1	2.24	16.1	1200	6.16
0947	20.6	6.98	1335	1	1.69	27.8	1800	6.16
0950	20.7	6.98	1337	1	1.39	34.8	2400	6.17
0953	20.8	6.98	1339	1	1.20	39.7	3000	6.17
0956	20.6	6.99	1339	1	1.00	42.6	3600	6.17
0959	20.6	6.99	1339	1	0.94	44.1	4200	6.18
1002	20.4	6.99	1338	1	0.90	45.9	4800	6.18
1005	20.5	7.00	1340	1	0.88	46.6	5400	6.18
1008	20.5	7.00	1339	1	0.87	47.9	6000	6.18

Did well dewater? Yes (No)	Amount actually evacuated: 6000 ml
Sampling Time: 1010	Sampling Date: 10/10/18
Sample I.D.: J6038-T15A-101018	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~180810 (01) (02)~~ 1810082-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-8-18
Well I.D.: T-16A	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 18.70	Depth to Water Pre: 6.33 Post: 6.33
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1451 Flow Rate: 200mL/min Pump Depth: 14'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1452	25.0	7.26	1318	7	1.37	-97.1	200	6.33 Clear
1455	25.1	7.28	1329	6	0.68	-116.9	800	6.33
1458	25.3	7.29	1336	6	0.60	-125.4	1400	6.33
1501	25.2	7.30	1339	6	0.58	-127.4	2000	6.33
1504	25.1	7.30	(KS) ~~133~~ 1346	8	0.45	-131.1	2600	6.33
1507	25.2	7.30	1340	9	0.44	-131.4	3200	6.33
1510	25.3	7.30	1343	9	0.37	-132.4	3800	6.33
1513	25.2	7.31	134	9	0.37	-132.6	4400	6.33

Did well dewater? Yes (No)	Amount actually evacuated: 4400 ml
Sampling Time: 1515	Sampling Date: 10-9-18
Sample I.D.: J6038-T16A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~180810DL-1~~ 181008DL-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-8-18
Well I.D.: T-17A	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 20.14	Depth to Water Pre: 6.60 Post: 6.61
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: (**Peristaltic Pump**) **Bladder Pump** Other: _____

Sampling Method: (**New Tubing**) Other: _____

Start Purge: 1229 Flow Rate: 200mL/min Pump Depth: 13'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations	
1230	23.8	7.50	1044	9	2.70	-118.8	200	6.60	Clear
1233	23.9	7.45	1052	6	2.22	-119.1	800	6.60	↓
1236	24.4	7.36	1070	6	2.08	-110.3	1400	6.60	↓
1239	24.4	7.34	1084	6	1.96	-104.9	2000	6.61	↓
1242	24.7	7.33	1088	5	1.82	-105.9	2600	6.61	↓
1245	24.8	7.33	1091	5	1.84	-106.6	3200	6.61	↓
1248	24.7	7.36	1106	5	1.81	-103.8	3800	6.61	↓

Did well dewater? Yes (No)	Amount actually evacuated: 3800 ml
Sampling Time: 1250	Sampling Date: 10-9-18
Sample I.D.: J6038-T17A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-17B	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 34.40	Depth to Water Pre: 6.41 Post: 6.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1128 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 / Observations
1131	22.0	7.34	1281	5	1.69	-45.1	600	6.50
1134	21.9	7.32	1281	3	1.49	-48.4	1200	6.50
1137	21.3	7.31	1269	6	1.18	-47.0	1800	6.50
1140	21.4	7.31	1269	7	0.95	-47.6	2400	6.50
1143	21.5	7.30	1267	7	0.82	-47.4	3000	6.51
1146	21.7	7.29	1265	6	0.74	-45.9	3600	6.50
1149	21.5	7.29	1262	4	0.68	-44.3	4200	6.51
1152	21.6	7.29	1261	6	0.59	-43.8	4800	6.51
1155	21.8	7.29	1261	5	0.57	-43.6	5400	6.51
1158	21.6	7.29	1260	5	0.57	-43.3	6000	6.51

Did well dewater? Yes (No) Amount actually evacuated: 6000 ml

Sampling Time: 1200 Sampling Date: 10/11/18

Sample I.D.: J6038-T17B-101118 Laboratory: **Test America - SF**

Analyzed for: **HVOC's (8260B)**

Blank I.D.: @ Time Duplicate I.D.: @ Time

Analyzed for: **HVOC's (8260B)**

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-D21	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DC	Start Date: 10/8/18
Well I.D.: T-18B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 46.26	Depth to Water Pre: 4.73 Post: 5.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1358 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 / Observations
1401	22.8	9.18	745	12	3.17	18.0	600	4.77
1404	22.8	9.18	737	10	2.95	13.4	1200	4.83
1407	22.5	9.16	737	9	2.70	10.0	1800	4.86
1410	22.6	9.13	737	10	2.61	7.3	2400	4.90
1413	22.8	9.08	740	10	2.40	6.0	3000	4.92
1416	22.8	9.04	743	9	2.37	5.5	3600	4.93
1419	23.0	8.95	749	9	2.30	5.1	4200	4.93
1422	22.9	8.60	756	6	2.11	5.4	4800	4.94
1425	22.9	8.00	781	5	2.04	-95.9	5400	4.96
1428	23.3	7.76	809	4	2.03	-101.9	6000	4.98

Did well dewater? Yes (No)	Amount actually evacuated: 7800 ml
Sampling Time: 1440	Sampling Date: 10/8/18
Sample I.D.: J6038- T18B-100818	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: Triplank-J6038-100818 @ 0730 (Time)	Duplicate I.D.: @ (Time)
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 180008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/8/18
Well I.D.: T-18B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 46.26	Depth to Water Pre: 4.73 Post: 5.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1358 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 / Observations
1431	23.6	7.69	833	4	2.06	-102.2	6600	4.99
1434	23.4	7.65	848	2	2.07	-103.3	7200	5.00
1437	23.3	7.64	853	3	2.04	-98.4	7800	5.01

Did well dewater? Yes (No)	Amount actually evacuated: 7800 ml
Sampling Time: 1440	Sampling Date: 10/8/18
Sample I.D.: J6038- T18B-100818	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/8/18
Well I.D.: T-19A	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 20.84	Depth to Water Pre: 6.61 Post: 6.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1518 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 / Observations
1521	23.7	7.08	1373	16	4.74	-118.5	600	6.64
1524	23.7	7.10	1366	18	3.92	-123.5	1200	6.63
1527	23.6	7.11	1357	24	3.27	-123.2	1800	6.62
1530	23.7	7.11	1353	24	2.83	-124.0	2400	6.62
1533	23.6	7.11	1350	25	2.43	-124.2	3000	6.64
1536	23.6	7.10	1348	15	2.27	-125.1	3600	6.63
1539	23.4	7.10	1339	38	2.00	-126.0	4200	6.64
1542	23.3	7.11	1328	57	1.77	-125.6	4800	6.65
1545	23.5	7.10	1326	47	1.56	-125.0	5400	6.65
1548	23.5	7.10	1331	65	1.39	-124.9	6000	6.65

Did well dewater? Yes (No)	Amount actually evacuated: 11400 ml
Sampling Time: 1620	Sampling Date: 10/8/18
Sample I.D.: J6038-T19A-100818	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/8/18
Well I.D.: T-19A	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 20.84	Depth to Water Pre: 6.61 Post: 6.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI ProPlus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1518 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 / Observations
1551	~~7.1100~~ 23.4	7.10	1328	71	1.30	-125.0	6600	6.65
1554	23.3	7.10	1326	64	1.20	-125.6	7200	6.65
1557	23.6	7.10	1327	45	1.11	-126.2	7800	6.65
1600	23.6	7.10	1323	44	1.06	-126.5	8400	6.65
1603	23.5	7.10	1325	31	1.03	-127.1	9000	6.65
1606	23.5	7.10	1322	25	0.96	-127.7	9600	6.65
1609	23.5	7.11	1319	19	0.92	-128.2	10200	6.65
1612	23.3	7.11	1318	21	0.90	-127.9	10800	6.65
1615	23.5	7.11	1317	21	0.88	-128.1	~~9164~~ 11400	6.65

Did well dewater? Yes (No)	Amount actually evacuated: 11400 ml
Sampling Time: 1620	Sampling Date: 10/8/18
Sample I.D.: J6038-T19A-100818	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/9/18
Well I.D.: T-19B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 39.34	Depth to Water Pre: 5.33 Post: 5.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0834 Flow Rate: 200 ml/min Pump Depth: 34'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
0837	19.1	7.31	1086	>1000	2.96	237.3	600	5.37 Cloudy
0840	18.9	7.30	1080	>1000	2.59	231.3	1200	5.41
0843	19.1	7.30	1074	>1000	2.44	228.2	1800	5.42
0846	19.0	7.30	1072	>1000	2.27	226.8	2400	5.42
0849	19.1	7.30	1065	>1000	2.77	211.0	3000	5.42
0852	19.0	7.30	1064	997	1.80	209.1	3600	5.43
0855	19.1	7.30	1058	664	1.80	208.1	4200	5.43
0858	19.2	7.30	1056	377	1.64	207.1	4800	5.43
0901	19.3	7.30	1050	353	1.59	205.9	5400	5.44
0904	19.4	7.30	1048	340	1.60	205.1	6000	5.44

Did well dewater? Yes (No)	Amount actually evacuated: 6000 ml
Sampling Time: 0905	Sampling Date: 10/9/18
Sample I.D.: J6038- T19B-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: TRIP blank-J6038-100918 @ Time 0730	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DC1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-20B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 27.04	Depth to Water Pre: 4.70 Post: 4.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1219 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 / Observations
1222	21.8	7.42	1397	4	3.36	59.0	600	4.73
1225	21.7	7.41	1393	4	3.00	60.5	1200	4.76
1228	21.6	7.40	1392	3	2.71	62.9	1800	4.78
1231	21.6	7.39	1391	4	2.70	64.7	2400	4.80
1234	21.6	7.39	1391	3	2.68	66.6	3000	4.83
1237	21.6	7.39	1390	3	2.66	67.5	3600	4.85

Did well dewater? Yes (No)	Amount actually evacuated: 3600 ml
Sampling Time: 1240	Sampling Date: 10/10/18
Sample I.D.: J6038- T20B-101018	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DC1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-21B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 27.34	Depth to Water Pre: 6.71 Post: 6.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1335 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 / Observations
1338	22.8	7.31	1318	6	2.20	48.3	600	6.74
1341	22.6	7.31	1313	4	1.69	45.8	1200	6.77
1344	22.7	7.31	1310	4	1.40	44.0	1800	6.80
1347	22.7	7.32	1313	4	1.00	41.3	2400	6.82
1350	22.5	7.32	1311	3	0.84	37.5	3000	6.84
1353	22.4	7.31	1310	3	0.82	35.1	3600	6.86
1356	22.4	7.31	1311	4	0.81	32.9	4200	6.87

Did well dewater? Yes (No) Amount actually evacuated: 4200 ml

Sampling Time: 1400 Sampling Date: 10/10/18

Sample I.D.: J6038- ~~T-21~~ T21B-101018 @ Laboratory: **Test America - SF**

Analyzed for: **HVOC's (8260B)**

Blank I.D.: @ Time Duplicate I.D.: @ Time

Analyzed for: **HVOC's (8260B)**

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-22B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 24.43	Depth to Water Pre: 5.88 Post: 5.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0741 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 / Observations
0744	20.4	6.95	1432	2	2.73	91.1	600	5.90
0747	20.7	6.96	1426	1	1.99	88.0	1200	5.93
0750	20.8	6.97	1422	2	1.56	84.9	1800	5.95
0753	20.8	6.98	1403	1	1.30	82.2	2400	5.96
0756	20.7	6.99	1396	1	1.11	80.4	3000	5.97
0759	20.3	7.00	1391	1	1.02	78.6	3600	5.97
0802	20.3	7.01	1390	1	0.93	77.1	4200	5.97
0805	20.4	7.01	1390	1	0.84	77.1	4800	5.98
0808	20.2	7.02	1387	1	0.88	77.0	5400	5.98
0811	20.3	7.02	1391	1	0.81	75.8	6000	5.98

Did well dewater? Yes (No)	Amount actually evacuated: 6000 ml
Sampling Time: 0815	Sampling Date: 10/10/18
Sample I.D.: J6038- T22B-101018	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: TripBlank-J6038-101118 @ 0730 Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~180810DL-1~~ 181008DL-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-8-18
Well I.D.: T-23A	Well Diameter: 2 3 4 6 8 1"
Total Well Depth: 18.00'	Depth to Water Pre: 6.87 Post: 6.99
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: **Peristaltic Pump** **Bladder Pump** Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0859 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 / Observations
0900	19.63	6.96	1543	173	1.04	-15.7	200	6.87 Clear
0903	19.9	7.15	1452	34	0.91	-56.3	800	6.99
0906	19.9	7.18	1428	16	0.89	-77.7	1400	6.99
0909	20.0	7.21	1418	12	0.94	-90.8	2000	6.99
0912	20.1	7.26	1411	12	0.82	-101.0	2600	6.99
0915	20.2	7.26	1408	12	0.78	-111.6	3200	6.99
0918	20.2	7.26	1406	12	0.75	-109.8	3800	6.99

Did well dewater? Yes (No)	Amount actually evacuated: 3800 ml
Sampling Time: 0920	Sampling Date: 10-9-18
Sample I.D.: J6038- T23A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/10/18
Well I.D.: T-23B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 29.08	Depth to Water Pre: 6.10 Post: 6.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** (circled) Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 1435 Flow Rate: 100 ml/min (due to drawdown in past) Pump Depth: 28.5'

Time	Temp. (°C)	pH	Cond. (µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (mL)	DTW / Observations
1438	23.2	7.11	1385	25	2.32	80.0	300	6.60
1441	23.3	7.10	1385	30	1.80	75.0	600	6.58
1444	23.4	7.10	1385	20	1.27	68.4	900	6.60
1447	23.2	7.11	1383	14	1.00	64.5	1200	6.70
1450	22.7	7.11	1385	12	0.94	60.1	1500	6.68
1453	22.6	7.11	1379	12	0.87	56.2	1800	6.64
1456	22.9	7.11	1381	13	0.80	50.5	2100	6.59
1459	22.5	7.10	1377	15	0.69	36.1	2400	6.62
1502	22.4	7.10	1377	16	0.67	28.6	2700	6.66
1505	22.6	7.10	1379	17	0.66	27.0	3000	6.55

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1510	Sampling Date: 10/10/18
Sample I.D.: J6038-T23B-101018	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-24B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 35.50	Depth to Water Pre: 7.03 Post: 7.06
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI Pro Plus

Purge Method: **Peristaltic Pump** **Bladder Pump** (circled) Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0841 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 / Observations
0844	21.0	7.48	1287	4	2.20	77.9	600	7.03
0847	21.4	7.46	1304	4	1.69	62.6	1200	7.06
0850	21.4	7.46	1309	2	1.36	51.3	1800	7.06
0853	21.4	7.47	1311	2	1.11	43.4	2400	7.05
0856	21.4	7.47	1314	1	0.96	38.9	3000	7.05
0859	21.5	7.48	1313	1	0.83	34.0	3600	7.05
0902	21.5	7.49	1314	2	0.77	30.3	4200	7.05
0905	21.6	7.50	1317	2	0.70	26.3	4800	7.05
0908	21.3	7.51	1318	2	0.61	23.0	5200	7.05
0911	21.1	7.51	1319	1	0.57	20.4	6000	7.06

Did well dewater? Yes (No)	Amount actually evacuated: 8400 ml
Sampling Time: 0925	Sampling Date: 10/11/18
Sample I.D.: J6038- T24B-101118	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181008-DL1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: DL	Start Date: 10/11/18
Well I.D.: T-24B	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 35.50	Depth to Water Pre: 7.03 Post: 7.06
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: **PVC**	Flow Cell Type: YSI ProPlus

Purge Method: **Peristaltic Pump** **Bladder Pump** (circled) Other: _____

Sampling Method: **New Tubing** Other: _____

Start Purge: 0841 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 / Observations
0914	21.0	7.51	1319	2	0.54	18.0	6600	7.06
0917	21.3	7.51	1318	1	0.50	12.1	7200	7.06
0920	21.1	7.51	1319	1	0.49	11.0	7800	7.06
0923	21.2	7.51	1319	1	0.48	9.8	8400	7.06

Did well dewater? Yes (No)	Amount actually evacuated: 8400 ml
Sampling Time: 0925	Sampling Date: 10/11/18
Sample I.D.: J6038- T24B-101118	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~1808100L-1~~ 1810080L-1	Client: **AECOM @ TRW Microwave - Sunnyvale, CA**
Sampler: KS	Start Date: 10-8-18
Well I.D.: T-25A	Well Diameter: 2 3 4 6 8 (1")
Total Well Depth: 18.90	Depth to Water Pre: 5.80 Post: 5.92
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: **PVC**	Flow Cell Type: YSI 556

Purge Method: (**Peristaltic Pump**) **Bladder Pump** Other: _____

Sampling Method: (**New Tubing**) Other: _____

Start Purge: ~~10~~ 1324 (KS) 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 / Observations
1325	23.5	7.24	1348	10	1.40	-125.5	200	5.80 clear
1328	23.6	7.31	1347	8	0.54	-129.5	800	5.92
1331	23.7	7.30	1348	6	0.53	-125.8	1400	5.92
1334	23.6	7.31	1352	5	0.58	-124.0	2000	5.92
1337	23.5	7.31	1352	5	0.54	-124.7	2600	5.92
1340	23.5	7.31	1351	5	0.51	-125.4	3200	5.92

Did well dewater? Yes (No)	Amount actually evacuated: 3200 ml
Sampling Time: 1345	Sampling Date: 10/09/18
Sample I.D.: J6038- T25A-100918	Laboratory: **Test America - SF**
Analyzed for: **HVOC's (8260B)**	
Blank I.D.: @ Time	Duplicate I.D.: @ Time
Analyzed for: **HVOC's (8260B)**	

Appendix B

Historical Water-Level Elevation Measurements

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-1A	A	1/16/1986	7.50	37.48	29.98
T-1A	A	3/14/1986	6.35	37.48	31.13
T-1A	A	4/23/1986	8.50	37.48	28.98
T-1A	A	5/13/1986	8.15	37.48	29.33
T-1A	A	7/24/1986	8.93	37.48	28.55
T-1A	A	10/2/1987	9.75	37.48	27.73
T-1A	A	11/30/1987	11.64	37.48	25.84
T-1A	A	2/24/1988	11.70	37.48	25.78
T-1A	A	4/12/1988	12.62	37.48	24.86
T-1A	A	7/26/1988	14.69	37.48	22.79
T-1A	A	10/25/1988	15.17	37.48	22.31
T-1A	A	1/10/1989	15.07	39.66	24.59
T-1A	A	4/3/1989	18.63	39.66	21.03
T-1A	A	9/14/1989	17.87	39.66	21.79
T-1A	A	10/10/1989	18.13	39.66	21.53
T-1A	A	1/8/1990	20.03	39.66	19.63
T-1A	A	4/6/1990	18.86	39.66	20.80
T-1A	A	7/5/1990	19.20	39.66	20.46
T-1A	A	10/9/1990	20.66	39.66	19.00
T-1A	A	1/8/1991	21.15	39.66	18.51
T-1A	A	4/9/1991	19.72	39.66	19.94
T-1A	A	7/9/1991	22.22	39.66	17.44
T-1A	A	10/7/1991	21.27	39.66	18.39
T-1A	A	1/6/1992	20.17	39.66	19.49
T-1A	A	4/6/1992	19.41	39.66	20.25
T-1A	A	7/6/1992	20.13	39.66	19.53
T-1A	A	10/29/1992	19.93	39.66	19.73
T-1A	A	1/5/1993	19.50	39.66	20.16
T-1A	A	4/5/1993	17.82	39.66	21.84
T-1A	A	7/6/1993	NM	39.66	NA
T-1A	A	10/15/1993	NM	39.66	NA
T-1A	A	1/11/1994	14.03	39.66	25.63
T-1A	A	4/4/1994	11.27	39.66	28.39
T-1A	A	7/6/1994	10.51	39.66	29.15
T-1A	A	10/5/1994	10.59	39.66	29.07
T-1A	A	1/10/1995	NM	39.66	NA
T-1A	A	4/5/1995	9.48	39.66	30.18
T-1A	A	7/5/1995	NM	39.66	NA
T-1A	A	10/9/1995	11.40	39.66	28.26
T-1A	A	7/10/1996	12.67	39.66	26.99
T-1A	A	10/1/1996	12.94	39.66	26.72
T-1A	A	4/1/1997	10.83	39.66	28.83
T-1A	A	10/1/1997	11.99	38.46	26.47
T-1A	A	4/1/1998	9.48	38.46	28.98
T-1A	A	10/5/1998	10.70	38.46	27.76
T-1A	A	4/5/1999	10.42	38.46	28.04
T-1A	A	10/4/1999	10.79	38.46	27.67
T-1A	A	10/2/2000	11.91	38.46	26.55

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-1A	A	10/1/2001	10.64	38.46	27.82
T-1A	A	10/14/2002	10.36	38.46	28.10
T-1A	A	10/9/2003	9.01	38.46	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
T-2A	A	7/24/1986	12.73	39.65	26.92
T-2A	A	10/2/1987	10.67	39.65	28.98
T-2A	A	11/30/1987	12.15	39.65	27.50
T-2A	A	2/24/1988	11.74	39.65	27.91
T-2A	A	4/12/1988	15.32	39.65	24.33
T-2A	A	7/26/1988	15.59	39.65	24.06
T-2A	A	10/25/1988	15.88	39.65	23.77
T-2A	A	1/10/1989	15.50	39.68	24.18
T-2A	A	4/3/1989	12.55	39.68	27.13
T-2A	A	9/14/1989	16.31	39.68	23.37
T-2A	A	10/10/1989	15.77	39.68	23.91
T-2A	A	1/8/1990	12.88	39.68	26.80
T-2A	A	4/6/1990	17.40	39.68	22.28
T-2A	A	7/5/1990	16.06	39.68	23.62
T-2A	A	10/9/1990	16.64	39.68	23.04
T-2A	A	1/8/1991	10.18	39.68	29.50
T-2A	A	4/9/1991	NM	39.68	NA
T-2A	A	7/9/1991	16.66	39.68	23.02
T-2A	A	10/7/1991	17.16	39.68	22.52
T-2A	A	1/6/1992	16.37	39.68	23.31
T-2A	A	4/6/1992	16.91	39.68	22.77
T-2A	A	7/6/1992	15.26	39.68	24.42
T-2A	A	10/29/1992	16.61	39.68	23.07
T-2A	A	1/5/1993	Dry	39.68	NA
T-2A	A	4/5/1993	17.34	39.68	22.34
T-2A	A	7/6/1993	17.54	39.68	22.14
T-2A	A	10/15/1993	Dry	39.68	NA
T-2A	A	1/11/1994	18.47	39.68	21.21
T-2A	A	4/4/1994	Dry	39.68	NA
T-2A	A	7/6/1994	18.97	39.68	20.71
T-2A	A	10/5/1994	Dry	39.68	NA
T-2A	A	1/10/1995	18.65	39.68	21.03
T-2A	A	4/5/1995	17.91	39.68	21.77
T-2A	A	7/5/1995	19.25	39.68	20.43
T-2A	A	10/9/1995	18.60	39.68	21.08
T-2A	A	7/10/1996	17.45	39.68	22.23
T-2A	A	10/1/1996	12.56	39.68	27.12
T-2A	A	4/1/1997	17.32	39.68	22.36
T-2A	A	10/1/1997	16.70	40.99	24.29
T-2A	A	4/1/1998	12.08	40.99	28.91
T-2A	A	10/5/1998	Dry	40.99	NA
T-2A	A	4/5/1999	14.51	40.99	26.48
T-2A	A	10/4/1999	16.87	40.99	24.12

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-2A	A	10/2/2000	13.22	40.99	27.77
T-2A	A	10/1/2001	11.46	40.99	29.53
T-2A	A	10/1/2002	9.42	39.46	30.04
T-2A	A	10/9/2003	8.56	39.46	30.90
T-2A	A	10/4/2004	9.02	39.46	30.44
T-2A	A	10/10/2005	7.82	39.46	31.64
T-2A	A	10/16/2006	7.69	39.46	31.77
T-2A	A	10/8/2007	7.39	42.16	34.77
T-2A	A	10/13/2008	7.83	42.16	34.33
T-2A	A	10/12/2009	8.78	42.16	33.38
T-2A	A	10/11/2010	8.45	42.16	33.71
T-2A	A	10/10/2011	8.01	42.16	34.15
T-2A	A	10/8/2012	8.03	42.16	34.13
T-2A	A	10/14/2013	8.53	42.16	33.63
T-2A	A	4/14/2014	8.05	42.16	34.11
T-2A	A	9/24/2014	8.08	42.16	34.08
		Per USEPA approval, well T-2A was destroyed.			
T-3A	A	1/15/1986	7.90	39.66	31.76
T-3A	A	3/14/1986	7.16	39.66	32.50
T-3A	A	4/23/1986	9.50	39.66	30.16
T-3A	A	5/13/1986	9.75	39.66	29.91
T-3A	A	7/24/1986	9.89	39.66	29.77
T-3A	A	10/2/1987	8.68	39.66	30.98
T-3A	A	11/30/1987	9.78	39.66	29.88
T-3A	A	2/24/1988	9.62	39.66	30.04
T-3A	A	4/12/1988	9.30	39.66	30.36
T-3A	A	7/26/1988	10.01	39.66	29.65
T-3A	A	10/25/1988	9.75	39.66	29.91
T-3A	A	1/10/1989	NM	39.47	NA
T-3A	A	4/3/1989	9.12	39.47	30.35
T-3A	A	9/14/1989	10.04	39.47	29.43
T-3A	A	10/10/1989	10.76	39.47	28.71
T-3A	A	1/8/1990	9.73	39.47	29.74
T-3A	A	4/6/1990	10.17	39.47	29.30
T-3A	A	7/5/1990	10.22	39.47	29.25
T-3A	A	10/9/1990	12.57	39.47	26.90
T-3A	A	1/8/1991	10.65	39.47	28.82
T-3A	A	4/9/1991	11.80	39.47	27.67
T-3A	A	7/9/1991	12.50	39.47	26.97
T-3A	A	10/7/1991	11.06	39.47	28.41
T-3A	A	1/6/1992	12.25	39.47	27.22
T-3A	A	4/6/1992	11.28	39.47	28.19
T-3A	A	7/6/1992	14.90	39.47	24.57
T-3A	A	10/29/1992	11.00	39.47	28.47
T-3A	A	1/5/1993	11.34	39.47	28.13
T-3A	A	4/5/1993	10.95	39.47	28.52
T-3A	A	7/6/1993	13.12	39.47	26.35
T-3A	A	10/15/1993	13.73	39.47	25.74

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-3A	A	1/11/1994	14.04	39.47	25.43
T-3A	A	4/4/1994	13.64	39.47	25.83
T-3A	A	7/6/1994	13.34	39.47	26.13
T-3A	A	10/5/1994	10.72	39.47	28.75
T-3A	A	1/10/1995	10.35	39.47	29.12
T-3A	A	4/5/1995	9.70	39.47	29.77
T-3A	A	7/5/1995	11.42	39.47	28.05
T-3A	A	10/9/1995	11.73	39.47	27.74
T-3A	A	7/10/1996	11.37	39.47	28.10
T-3A	A	10/1/1996	11.69	39.47	27.78
T-3A	A	4/1/1997	10.03	39.47	29.44
T-3A	A	10/1/1997	10.82	39.04	28.22
T-3A	A	4/1/1998	8.42	39.04	30.62
T-3A	A	10/5/1998	6.52	39.04	32.52
T-3A	A	4/5/1999	9.46	39.04	29.58
T-3A	A	10/4/1999	9.69	39.04	29.35
T-3A	A	10/2/2000	9.97	39.04	29.07
T-3A	A	10/1/2001	9.23	39.04	29.81
T-3A	A	10/14/2002	8.90	39.04	30.14
T-3A	A	10/9/2003	8.07	39.04	30.97
T-3A	A	10/4/2004	8.56	39.04	30.48
T-3A	A	10/10/2005	7.25	39.04	31.79
T-3A	A	10/16/2006	7.11	39.04	31.93
T-3A	A	10/8/2007	6.78	41.74	34.96
T-3A	A	10/13/2008	7.28	41.74	34.46
T-3A	A	10/12/2009	8.32	41.74	33.42
T-3A	A	10/11/2010	7.92	41.74	33.82
T-3A	A	10/10/2011	7.48	41.74	34.26
T-3A	A	10/8/2012	7.59	41.74	41.74
T-3A	A	10/14/2013	7.99	41.74	33.75
T-3A	A	4/14/2014	7.54	41.74	34.20
T-3A	A	9/24/2014	7.68	41.74	34.06
		Per USEPA approval, well T-3A was destroyed.			
T-6A	A	1/15/1986	9.75	37.99	30.17
T-6A	A	5/13/1986	9.85	37.99	28.14
T-6A	A	7/24/1986	10.14	37.99	27.85
T-6A	A	10/2/1987	11.63	37.99	26.36
T-6A	A	11/30/1987	12.30	37.99	25.69
T-6A	A	2/24/1988	12.15	37.99	25.84
T-6A	A	4/12/1988	12.61	37.99	25.38
T-6A	A	7/26/1988	12.95	37.99	25.04
T-6A	A	10/25/1988	13.35	37.99	24.64
T-6A	A	1/10/1989	13.42	37.81	24.39
T-6A	A	4/3/1989	14.34	37.81	23.47
T-6A	A	9/14/1989	14.76	37.81	23.05
T-6A	A	10/10/1989	14.92	37.81	22.89
T-6A	A	1/8/1990	15.44	37.81	22.37
T-6A	A	4/6/1990	15.29	37.81	22.52

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-6A	A	7/5/1990	NM	37.81	NA
T-6A	A	10/9/1990	16.12	37.81	21.69
T-6A	A	1/8/1991	16.03	37.81	21.78
T-6A	A	4/9/1991	15.33	37.81	22.48
T-6A	A	7/9/1991	14.79	37.81	23.02
T-6A	A	10/7/1991	15.73	37.81	22.08
T-6A	A	1/6/1992	16.33	37.81	21.48
T-6A	A	4/6/1992	14.47	37.81	23.34
T-6A	A	7/6/1992	14.20	37.81	23.61
T-6A	A	10/29/1992	13.08	37.81	24.73
T-6A	A	1/5/1993	12.98	37.81	24.83
T-6A	A	4/5/1993	11.63	37.81	26.18
T-6A	A	7/6/1993	12.48	37.81	25.33
T-6A	A	10/15/1993	11.28	37.81	26.53
T-6A	A	1/11/1994	12.48	37.81	25.33
T-6A	A	4/4/1994	11.90	37.81	25.91
T-6A	A	7/6/1994	11.54	37.81	26.27
T-6A	A	10/5/1994	10.80	37.81	27.01
T-6A	A	1/10/1995	10.66	37.81	27.15
T-6A	A	4/5/1995	8.89	37.81	28.92
T-6A	A	7/5/1995	11.17	37.81	26.64
T-6A	A	10/9/1995	11.40	37.81	26.41
T-6A	A	7/10/1996	11.77	37.81	26.04
T-6A	A	10/1/1996	11.69	37.81	26.12
T-6A	A	4/1/1997	10.05	37.81	27.76
T-6A	A	10/1/1997	11.23	37.22	25.99
T-6A	A	4/1/1998	9.02	37.22	28.20
T-6A	A	10/5/1998	10.17	37.22	27.05
T-6A	A	4/5/1999	9.96	37.22	27.26
T-6A	A	10/4/1999	10.37	37.22	26.85
T-6A	A	10/2/2000	10.55	37.22	26.67
T-6A	A	10/1/2001	8.40	37.22	28.82
T-6A	A	10/14/2002	8.31	37.22	28.91
T-6A	A	10/9/2003	7.29	37.22	29.93
T-6A	A	10/10/2005	8.45	37.22	28.77
T-6A	A	10/16/2006	8.21	37.22	29.01
T-6A	A	10/8/2007	8.00	39.92	31.92
T-6A	A	10/13/2008	NM	39.92	--
T-6A	A	10/12/2009	8.42	39.92	31.50
T-6A	A	10/11/2010	NM	39.92	--
T-6A	A	10/10/2011	NM	39.92	--
T-6A	A	10/8/2012	NM	39.92	--
T-6A	A	10/14/2013	NM	39.92	--
T-6A	A	10/12/2015	NM	39.92	--
T-6A	A	10/12/2015	NM	39.92	--
T-7A	A	1/16/1986	7.90	39.57	34.19
T-7A	A	3/12/1986	6.05	39.57	33.52
T-7A	A	3/14/1986	6.20	39.57	33.37

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-7A	A	4/22/1986	7.80	39.57	31.77
T-7A	A	5/13/1986	8.19	39.57	31.38
T-7A	A	7/24/1986	8.13	39.57	31.44
T-7A	A	10/2/1987	9.01	39.57	30.56
T-7A	A	11/30/1987	9.89	39.57	29.68
T-7A	A	2/24/1988	10.09	39.57	29.48
T-7A	A	4/12/1988	10.71	39.57	28.86
T-7A	A	7/26/1988	11.22	39.57	28.35
T-7A	A	10/25/1988	11.36	39.57	28.21
T-7A	A	1/10/1989	11.84	39.53	27.69
T-7A	A	4/3/1989	12.21	39.53	27.32
T-7A	A	9/14/1989	10.17	39.53	29.36
T-7A	A	10/10/1989	11.71	39.53	27.82
T-7A	A	1/8/1990	15.13	39.53	24.40
T-7A	A	4/6/1990	15.29	39.53	24.24
T-7A	A	7/5/1990	16.19	39.53	23.34
T-7A	A	10/9/1990	16.46	39.53	23.07
T-7A	A	1/8/1991	17.67	39.53	21.86
T-7A	A	4/9/1991	14.97	39.53	24.56
T-7A	A	7/9/1991	17.39	39.53	22.14
T-7A	A	10/9/1995	9.76	39.53	29.77
T-7A	A	7/10/1996	10.11	39.53	29.42
T-7A	A	10/1/1996	10.10	39.53	29.43
T-7A	A	4/1/1997	8.60	39.53	30.93
T-7A	A	10/1/1997	9.34	38.97	29.63
T-7A	A	4/1/1998	7.46	38.97	31.51
T-7A	A	10/5/1998	8.22	38.97	30.75
T-7A	A	4/5/1999	8.37	38.97	30.60
T-7A	A	10/4/1999	8.55	38.97	30.42
T-7A	A	10/2/2000	8.41	38.97	30.56
T-7A	A	10/1/2001	8.37	38.97	30.60
T-7A	A	10/14/2002	8.23	39.39	31.16
T-7A	A	10/9/2003	7.07	39.39	32.32
T-7A	A	10/4/2004	7.68	39.39	31.71
T-7A	A	10/10/2005	6.44	39.39	32.95
T-7A	A	10/16/2006	6.33	39.39	33.06
T-7A	A	10/8/2007	6.14	42.09	35.95
T-7A	A	10/13/2008	6.54	42.09	35.55
T-7A	A	10/12/2009	7.31	42.09	34.78
T-7A	A	10/11/2010	7.05	42.09	35.04
T-7A	A	10/10/2011	6.60	42.09	35.49
T-7A	A	10/8/2012	6.75	42.09	35.34
T-7A	A	10/14/2013	7.11	42.09	34.98
T-7A	A	10/13/2014	6.89	42.09	35.20
T-7A	A	10/12/2015	7.71	42.09	34.38
T-7A	A	10/10/2016	7.70	42.09	34.39
T-7A	A	10/9/2017	6.80	41.84	35.29
T-7A	A	10/8/2018	6.36	41.84	35.48

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-8A	A	3/10/1986	6.11	38.36	34.27
T-8A	A	5/13/1986	11.55	38.36	26.81
T-8A	A	7/24/1986	13.34	38.36	25.02
T-8A	A	10/2/1987	9.66	38.36	28.70
T-8A	A	11/30/1987	10.70	38.36	27.66
T-8A	A	2/24/1988	11.09	38.36	27.27
T-8A	A	4/12/1988	NM	38.36	NA
T-8A	A	7/26/1988	15.85	38.36	22.51
T-8A	A	10/25/1988	14.77	38.36	23.59
T-8A	A	1/10/1989	NM	38.32	NA
T-8A	A	4/3/1989	15.06	38.32	23.26
T-8A	A	9/14/1989	14.40	38.32	23.92
T-8A	A	10/10/1989	16.67	38.32	21.65
T-8A	A	1/8/1990	14.10	38.32	24.22
T-8A	A	4/6/1990	15.11	38.32	23.21
T-8A	A	7/5/1990	14.73	38.32	23.59
T-8A	A	10/9/1990	15.46	38.32	22.86
T-8A	A	1/8/1991	15.84	38.32	22.48
T-8A	A	4/9/1991	14.54	38.32	23.78
T-8A	A	7/9/1991	15.21	38.32	23.11
T-8A	A	10/7/1991	15.68	38.32	22.64
T-8A	A	1/6/1992	15.40	38.32	22.92
T-8A	A	4/6/1992	14.76	38.32	23.56
T-8A	A	7/6/1992	14.08	38.32	24.24
T-8A	A	10/29/1992	13.23	38.32	25.09
T-8A	A	1/5/1993	12.92	38.32	25.40
T-8A	A	4/5/1993	15.57	38.32	22.75
T-8A	A	7/6/1993	12.52	38.32	25.80
T-8A	A	10/15/1993	15.78	38.32	22.54
T-8A	A	1/11/1994	13.97	38.32	24.35
T-8A	A	4/4/1994	13.20	38.32	25.12
T-8A	A	7/6/1994	12.67	38.32	25.65
T-8A	A	10/5/1994	11.95	38.32	26.37
T-8A	A	1/10/1995	11.91	38.32	26.41
T-8A	A	4/5/1995	12.76	38.32	25.56
T-8A	A	7/5/1995	15.90	38.32	22.42
T-8A	A	10/9/1995	16.02	38.32	22.30
T-8A	A	7/10/1996	13.09	38.32	25.23
T-8A	A	10/1/1996	13.00	38.32	25.32
T-8A	A	4/1/1997	10.95	38.32	27.37
T-8A	A	10/1/1997	10.95	38.32	27.37
T-8A	A	4/1/1998	8.21	38.32	30.11
T-8A	A	10/5/1998	9.27	38.32	29.05
T-8A	A	4/5/1999	8.75	38.32	29.57
T-8A	A	10/4/1999	8.88	38.32	29.44
T-8A	A	10/2/2000	9.43	38.32	28.89
T-8A	A	10/1/2001	8.43	38.32	29.89
T-8A	A	10/1/2002	8.10	37.68	29.58

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-8A	A	10/9/2003	7.27	37.68	30.41
T-8A	A	10/4/2004	7.70	37.68	29.98
T-8A	A	10/10/2005	6.48	37.68	31.20
T-8A	A	10/16/2006	6.35	37.68	31.33
T-8A	A	10/8/2007	6.02	40.38	34.36
T-8A	A	10/13/2008	6.54	40.38	33.84
T-8A	A	10/12/2009	7.50	40.38	32.88
T-8A	A	4/5/2010	6.16	40.38	34.22
T-8A	A	10/11/2010	6.85*	40.38	33.53
T-8A	A	10/10/2011	6.68	40.38	33.70
T-8A	A	10/8/2012	6.86	40.38	33.52
T-8A	A	10/14/2013	7.25	40.38	33.13
T-8A	A	4/14/2014	6.78	40.38	33.60
T-8A	A	10/13/2014	6.67	40.38	33.71
T-8A	A	10/12/2015	7.68	40.38	32.70
T-8A	A	10/10/2016	7.47	40.38	32.91
T-8A	A	10/9/2017	6.72	40.38	33.66
T-8A	A	10/8/2018	6.21	40.48	34.27
T-9A	A	3/12/1986	6.12	37.22	33.10
T-9A	A	3/14/1986	13.50	37.22	23.72
T-9A	A	3/17/1986	11.85	37.22	25.37
T-9A	A	5/13/1986	12.12	37.22	25.10
T-9A	A	10/2/1987	9.66	37.22	27.56
T-9A	A	11/30/1987	11.98	37.22	25.24
T-9A	A	2/24/1988	12.80	37.22	24.42
T-9A	A	4/12/1988	12.01	37.22	25.21
T-9A	A	7/26/1988	11.85	37.22	25.37
T-9A	A	10/25/1988	12.34	37.22	24.88
T-9A	A	1/10/1989	12.33	37.22	24.89
T-9A	A	4/3/1989	12.54	37.22	24.68
T-9A	A	9/14/1989	13.43	37.22	23.79
T-9A	A	10/10/1989	14.63	37.22	22.59
T-9A	A	1/8/1990	14.09	37.22	23.13
T-9A	A	4/6/1990	14.10	37.22	23.12
T-9A	A	7/5/1990	14.58	37.22	22.64
T-9A	A	10/9/1990	15.26	37.22	21.96
T-9A	A	1/8/1991	15.57	37.22	21.65
T-9A	A	4/9/1991	14.31	37.22	22.91
T-9A	A	7/9/1991	14.94	37.22	22.28
T-9A	A	10/7/1991	15.34	37.22	21.88
T-9A	A	1/6/1992	15.04	37.22	22.18
T-9A	A	4/6/1992	14.52	37.22	22.70
T-9A	A	7/6/1992	13.97	37.22	23.25
T-9A	A	10/29/1992	13.21	37.22	24.01
T-9A	A	1/5/1993	Dry	37.22	NA
T-9A	A	4/5/1993	14.12	37.22	23.10
T-9A	A	7/6/1993	12.80	37.22	24.42
T-9A	A	10/15/1993	13.26	37.22	23.96

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-9A	A	1/11/1994	15.20	37.22	22.02
T-9A	A	4/4/1994	12.93	37.22	24.29
T-9A	A	7/6/1994	12.85	37.22	24.37
T-9A	A	10/5/1994	12.72	37.22	24.50
T-9A	A	1/10/1995	11.12	37.22	26.10
T-9A	A	4/5/1995	8.84	37.22	28.38
T-9A	A	7/5/1995	11.00	37.22	26.22
T-9A	A	10/9/1995	11.33	37.22	25.89
T-9A	A	7/10/1996	10.67	37.22	26.55
T-9A	A	10/1/1996	11.03	37.22	26.19
T-9A	A	4/1/1997	9.88	37.22	27.34
T-9A	A	10/1/1997	11.29	37.21	25.92
T-9A	A	4/1/1998	8.57	37.21	28.64
T-9A	A	10/5/1998	9.17	37.21	28.04
T-9A	A	4/5/1999	10.07	37.21	27.14
T-9A	A	10/4/1999	9.94	37.21	27.27
T-9A	A	10/2/2000	11.30	37.21	25.91
T-9A	A	10/1/2001	8.67	37.21	28.54
T-9A	A	10/14/2002	8.27	37.21	28.94
T-9A	A	10/9/2003	7.51	37.21	29.70
T-9A	A	10/4/2004	7.84	37.21	29.37
T-9A	A	10/10/2005	6.53	37.21	30.68
T-9A	A	10/16/2006	6.77	36.52	23.02
T-9A	A	10/8/2007	6.33	39.22	32.89
T-9A	A	10/13/2008	6.80	39.22	32.42
T-9A	A	10/12/2009	7.89	39.22	31.33
T-9A	A	10/11/2010	7.53	39.22	31.69
T-9A	A	10/10/2011	7.07	39.22	32.15
T-9A	A	10/8/2012	7.26	39.22	31.96
T-9A	A	10/14/2013	7.71	39.22	31.51
T-9A	A	10/13/2014	6.60	39.22	32.62
T-9A	A	10/12/2015	7.90	39.22	31.32
T-9A	A	10/10/2016	7.61	39.22	31.61
T-9A	A	10/9/2017	6.93	39.22	32.29
T-9A	A	10/8/2018	6.33	39.30	32.97
T-13A	A	10/16/2006	6.58	38.06	31.48
T-13A	A	10/8/2007	6.31	40.76	34.45
T-13A	A	10/13/2008	6.92	40.76	33.84
T-13A	A	10/12/2009	7.78	40.76	32.98
T-13A	A	4/5/2010	6.38	40.76	34.38
T-13A	A	10/11/2010	7.44	40.76	33.32
T-13A	A	10/10/2011	7.04	40.76	33.72
T-13A	A	10/8/2012	7.12	40.76	33.64
T-13A	A	10/14/2013	7.49	40.76	33.27
T-13A	A	4/14/2014	7.02	40.76	33.74
T-13A	A	10/13/2014	7.01	40.76	33.75
T-13A	A	10/12/2015	8.06	40.76	32.70
T-13A	A	10/10/2016	7.99	40.76	32.77

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-13A	A	10/9/2017	7.03	40.76	33.73
T-13A	A	10/8/2018	6.40	40.99	34.59
T-14A	A	10/16/2006	6.52	37.92	31.40
T-14A	A	10/8/2007	6.30	40.62	34.32
T-14A	A	10/13/2008	6.73	40.62	33.89
T-14A	A	10/12/2009	7.71	40.62	32.91
T-14A	A	4/5/2010	6.28	40.62	34.34
T-14A	A	10/11/2010	7.38	40.62	33.24
T-14A	A	10/10/2011	6.93	40.62	33.69
T-14A	A	10/8/2012	7.07	40.62	33.55
T-14A	A	10/14/2013	7.46	40.62	33.16
T-14A	A	4/14/2014	7.01	40.62	33.61
T-14A	A	10/13/2014	6.92	40.62	33.70
T-14A	A	10/12/2015	7.93	40.62	32.69
T-14A	A	10/10/2016	7.67	40.62	32.95
T-14A	A	10/9/2017	6.94	40.62	33.68
T-14A	A	10/8/2018	6.34	40.81	34.47
T-15A	A	10/16/2006	6.48	37.41	30.93
T-15A	A	10/8/2007	6.15	40.11	33.96
T-15A	A	10/13/2008	6.68	40.11	33.43
T-15A	A	10/12/2009	7.61	40.11	32.50
T-15A	A	10/11/2010	7.28	40.11	32.83
T-15A	A	10/10/2011	6.81	40.11	33.30
T-15A	A	10/8/2012	6.98	40.11	33.13
T-15A	A	10/14/2013	7.38	40.11	32.73
T-15A	A	4/14/2014	6.92	40.11	33.19
T-15A	A	10/13/2014	6.72	40.11	33.39
T-15A	A	10/12/2015	7.81	40.11	32.30
T-15A	A	10/10/2016	7.81	40.11	32.3
T-15A	A	10/9/2017	6.82	40.11	33.29
T-15A	A	10/8/2018	6.14	40.22	34.08
T-16A	A	10/16/2006	6.60	37.32	30.72
T-16A	A	10/8/2007	6.30	40.02	33.72
T-16A	A	10/13/2008	6.75	40.02	33.27
T-16A	A	10/12/2009	7.74	40.02	32.28
T-16A	A	10/11/2010	7.36	40.02	32.66
T-16A	A	10/10/2011	6.91	40.02	33.11
T-16A	A	10/8/2012	7.11	40.02	32.91
T-16A	A	10/14/2013	7.56	40.02	32.46
T-16A	A	10/13/2014	6.77	40.02	33.25
T-16A	A	10/12/2015	7.83	40.02	32.19
T-16A	A	10/10/2016	7.68	40.02	32.34
T-16A	A	10/9/2017	6.97	40.02	33.05
T-16A	A	10/8/2018	6.23	40.12	33.89
T-17A	A	10/14/2013	7.82	38.23	30.41
T-17A	A	4/14/2014	7.30	38.23	30.93
T-17A	A	10/13/2014	7.19	38.23	31.04
T-17A	A	10/12/2015	8.18	38.23	30.05

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-17A	A	10/10/2016	8.18	38.23	30.05
T-17A	A	10/9/2017	7.25	38.23	30.98
T-17A	A	10/8/2018	6.64	40.88	34.24
T-18A	A	10/8/2007	6.87		
T-18A	A	9/4/2007	6.92		
T-18A	A	10/8/2018	6.94	41.20	34.26
T-19A	A	10/8/2007	6.45		
T-19A	A	9/4/2007	6.67		
T-19A	A	10/8/2018	6.61	41.00	34.39
T-20A	A	10/8/2007	6.32		
T-20A	A	9/4/2007	6.70		
T-20A	A	10/8/2018	6.43	40.86	34.43
T-21A	A	10/8/2007	6.62		
T-21A	A	9/4/2007	6.69		
T-21A	A	10/8/2018	6.73	41.20	34.47
T-22A	A	10/8/2007	6.63		
T-22A	A	9/4/2007	6.65		
T-22A	A	10/8/2018	6.16	--	--
T-23A	A	10/8/2007	6.86		
T-23A	A	9/4/2007	6.84		
T-23A	A	10/8/2018	7.19	41.44	34.25
T-24A	A	10/8/2007	6.64		
T-24A	A	9/4/2007	6.68		
T-24A	A	10/8/2018	7.09	41.29	34.20
T-25A	A	10/8/2007	5.83		
T-25A	A	9/4/2007	5.86		
T-25A	A	10/8/2018	5.82	40.26	34.44
36-S	A	1/15/1986	7.50	39.21	33.96
36-S	A	3/12/1986	6.08	39.21	33.13
36-S	A	3/14/1986	5.94	39.21	33.27
36-S	A	4/21/1986	7.50	39.21	31.71
36-S	A	5/13/1986	6.51	39.21	32.70
36-S	A	7/24/1986	7.42	39.21	31.79
36-S	A	10/2/1987	8.55	39.21	30.66
36-S	A	11/30/1987	9.33	39.21	29.88
36-S	A	2/24/1988	9.54	39.21	29.67
36-S	A	4/12/1988	10.19	39.21	29.02
36-S	A	7/26/1988	10.47	39.21	28.74
36-S	A	10/25/1988	10.93	39.21	28.28
36-S	A	1/10/1989	11.14	39.03	27.89
36-S	A	4/3/1989	11.60	39.03	27.43
36-S	A	9/14/1989	10.79	39.03	28.24
36-S	A	10/10/1989	10.72	39.03	28.31
36-S	A	1/8/1990	10.87	39.03	28.16
36-S	A	4/6/1990	12.64	39.03	26.39
36-S	A	7/5/1990	13.67	39.03	25.36
36-S	A	10/9/1990	11.33	39.03	27.70
36-S	A	1/8/1991	Dry	39.03	NA

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
36-S	A	4/9/1991	13.08	39.03	25.95
36-S	A	7/9/1991	13.93	39.03	25.10
36-S	A	10/7/1991	14.23	39.03	24.80
36-S	A	1/6/1992	12.98	39.03	26.05
36-S	A	4/6/1992	9.36	39.03	29.67
36-S	A	7/6/1992	11.80	39.03	27.23
36-S	A	10/29/1992	11.81	39.03	27.22
36-S	A	1/5/1993	11.35	39.03	27.68
36-S	A	4/5/1993	9.66	39.03	29.37
36-S	A	7/6/1993	10.69	39.03	28.34
36-S	A	10/15/1993	11.40	39.03	27.63
36-S	A	1/11/1994	11.82	39.03	27.21
36-S	A	4/4/1994	11.48	39.03	27.55
36-S	A	7/6/1994	10.90	39.03	28.13
36-S	A	10/5/1994	9.37	39.03	29.66
36-S	A	1/10/1995	7.60	39.03	31.43
36-S	A	4/5/1995	7.59	39.03	31.44
36-S	A	7/5/1995	9.25	39.03	29.78
36-S	A	10/9/1995	9.02	39.03	30.01
36-S	A	7/10/1996	9.14	39.03	29.89
36-S	A	10/1/1996	9.40	39.03	29.63
36-S	A	4/1/1997	7.85	39.03	31.18
36-S	A	Oct-97+	8.50	38.62	30.12
36-S	A	4/1/1998	6.58	38.62	32.04
36-S	A	10/5/1998	7.39	38.62	31.23
36-S	A	4/5/1999	7.14	38.62	31.48
36-S	A	10/4/1999	7.70	38.62	30.92
36-S	A	10/2/2000	7.79	38.62	30.83
36-S	A	10/1/2001	7.47	38.62	31.15
36-S	A	10/14/2002	7.37	38.62	31.25
36-S	A	10/9/2003	6.60	38.62	32.02
36-S	A	10/4/2004	6.93	38.62	31.69
36-S	A	10/10/2005	6.20	38.62	32.42
36-S	A	10/16/2006	6.07	38.62	32.55
36-S	A	10/8/2007	5.92	41.46	35.54
36-S	A	10/13/2008	6.29	41.46	35.17
36-S	A	10/12/2009	6.83	41.46	34.63
36-S	A	10/11/2010	6.65	41.46	34.81
36-S	A	10/10/2011	6.25	41.46	35.21
36-S	A	10/8/2012	DRY	41.46	--
36-S	A	10/14/2013	DRY	41.46	--
36-S	A	10/12/2015	7.28	41.46	34.18
36-S	A	10/10/2016	6.94	41.46	34.52
36-S	A	10/9/2017	6.40	41.46	35.06
36-S	A	10/8/2018	5.92	41.44	35.52
36-D	A	1/15/1986	7.50	39.06	33.76
36-D	A	3/10/1986	NM	39.06	NA
36-D	A	3/12/1986	5.90	39.06	33.16

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
36-D	A	3/14/1986	5.82	39.06	33.24
36-D	A	3/17/1986	NM	39.06	NA
36-D	A	4/21/1986	NM	39.06	NA
36-D	A	4/22/1986	7.20	39.06	31.86
36-D	A	4/23/1986	NM	39.06	NA
36-D	A	5/13/1986	7.37	39.06	31.69
36-D	A	7/24/1986	7.32	39.06	31.74
36-D	A	10/2/1987	8.32	39.06	30.74
36-D	A	11/30/1987	9.08	39.06	29.98
36-D	A	2/24/1988	9.35	39.06	29.71
36-D	A	4/12/1988	9.96	39.06	29.10
36-D	A	7/26/1988	10.23	39.06	28.83
36-D	A	10/25/1988	10.74	39.06	28.32
36-D	A	1/10/1989	10.95	38.88	27.93
36-D	A	4/3/1989	11.35	38.88	27.53
36-D	A	9/14/1989	11.71	38.88	27.17
36-D	A	10/10/1989	11.68	38.88	27.20
36-D	A	1/8/1990	12.51	38.88	26.37
36-D	A	4/6/1990	13.55	38.88	25.33
36-D	A	7/5/1990	13.93	38.88	24.95
36-D	A	10/9/1990	13.26	38.88	25.62
36-D	A	1/8/1991	14.83	38.88	24.05
36-D	A	4/9/1991	13.66	38.88	25.22
36-D	A	7/9/1991	14.28	38.88	24.60
36-D	A	10/7/1991	14.51	38.88	24.37
36-D	A	1/6/1992	14.37	38.88	24.51
36-D	A	4/6/1992	10.68	38.88	28.20
36-D	A	7/6/1992	12.52	38.88	26.36
36-D	A	10/5/1992	11.40	38.88	27.48
36-D	A	1/5/1993	11.67	38.88	27.21
36-D	A	4/5/1993	11.00	38.88	27.88
36-D	A	7/6/1993	10.60	38.88	28.28
36-D	A	10/15/1993	11.26	38.88	27.62
36-D	A	1/11/1994	11.62	38.88	27.26
36-D	A	4/4/1994	11.26	38.88	27.62
36-D	A	7/6/1994	10.76	38.88	28.12
36-D	A	10/5/1994	9.02	38.88	29.86
36-D	A	1/10/1995	7.57	38.88	31.31
36-D	A	4/5/1995	7.41	38.88	31.47
36-D	A	7/5/1995	9.03	38.88	29.85
36-D	A	10/9/1995	8.71	38.88	30.17
36-D	A	7/10/1996	8.89	38.88	29.99
36-D	A	10/1/1996	9.16	38.88	29.72
36-D	A	4/1/1997	7.61	38.88	31.27
36-D	A	Oct-97+	8.20	38.40	30.20
36-D	A	4/1/1998	6.38	38.40	32.02
36-D	A	10/5/1998	7.19	38.40	31.21
36-D	A	4/5/1999	7.17	38.40	31.23

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
36-D	A	10/4/1999	7.43	38.40	30.97
36-D	A	10/2/2000	7.52	38.40	30.88
36-D	A	10/1/2001	7.24	38.40	31.16
36-D	A	10/14/2002	7.12	38.40	31.28
36-D	A	10/9/2003	6.40	38.40	32.00
36-D	A	10/4/2004	6.72	38.40	31.68
36-D	A	10/10/2005	5.96	38.40	32.44
36-D	A	10/16/2006	5.82	38.40	32.58
36-D	A	10/8/2007	5.67	41.26	35.59
36-D	A	10/13/2008	6.02	41.26	35.24
36-D	A	10/12/2009	6.61	41.26	34.65
36-D	A	10/11/2010	6.43	41.26	34.83
36-D	A	10/10/2011	6.03	41.26	35.23
36-D	A	10/8/2012	6.20	41.26	35.06
36-D	A	10/14/2013	6.44	41.26	34.82
36-D	A	10/12/2015	7.04	41.26	34.22
36-D	A	10/10/2016	6.92	41.26	34.34
36-D	A	10/9/2017	6.18	41.26	35.08
36-D	A	10/8/2018	5.71	41.26	35.55
37-S	A	1/15/1986	8.20	40.19	33.86
37-S	A	3/12/1986	6.42	40.19	33.77
37-S	A	3/14/1986	6.44	40.19	33.75
37-S	A	5/13/1986	8.54	40.19	31.65
37-S	A	7/24/1986	8.53	40.19	31.66
37-S	A	10/2/1987	8.53	40.19	31.66
37-S	A	11/30/1987	10.64	40.19	29.55
37-S	A	2/24/1988	10.65	40.19	29.54
37-S	A	4/12/1988	11.24	40.19	28.95
37-S	A	7/26/1988	11.92	40.19	28.27
37-S	A	10/25/1988	12.03	40.19	28.16
37-S	A	1/10/1989	12.47	39.70	27.23
37-S	A	4/3/1989	13.00	39.70	26.70
37-S	A	9/14/1989	11.73	39.70	27.97
37-S	A	10/10/1989	12.20	39.70	27.50
37-S	A	1/8/1990	Dry	39.70	NA
37-S	A	4/6/1990	Dry	39.70	NA
37-S	A	7/5/1990	Dry	39.70	NA
37-S	A	10/9/1990	Dry	39.70	NA
37-S	A	1/8/1991	Dry	39.70	NA
37-S	A	4/9/1991	Dry	39.70	NA
37-S	A	7/9/1991	Dry	39.70	NA
37-S	A	10/7/1991	Dry	39.70	NA
37-S	A	1/6/1992	Dry	39.70	NA
37-S	A	4/6/1992	Dry	39.70	NA
37-S	A	7/6/1992	Dry	39.70	NA
37-S	A	10/29/1992	Dry	39.70	NA
37-S	A	1/5/1993	Dry	39.70	NA
37-S	A	4/5/1993	9.80	39.70	29.90

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
37-S	A	7/6/1993	12.01	39.70	27.69
37-S	A	10/15/1993	11.72	39.70	27.98
37-S	A	1/11/1994	12.73	39.70	26.97
37-S	A	4/4/1994	12.46	39.70	27.24
37-S	A	7/6/1994	11.81	39.70	27.89
37-S	A	10/5/1994	10.69	39.70	29.01
37-S	A	1/10/1995	10.56	39.70	29.14
37-S	A	4/5/1995	8.34	39.70	31.36
37-S	A	7/5/1995	9.85	39.70	29.85
37-S	A	10/9/1995	9.86	39.70	29.84
37-S	A	7/10/1996	9.25	39.70	30.45
37-S	A	10/1/1996	9.67	39.70	30.03
37-S	A	4/1/1997	8.29	39.70	31.41
37-S	A	Oct-97+	9.20	39.24	30.04
37-S	A	4/1/1998	7.38	39.24	31.86
37-S	A	10/5/1998	8.42	39.24	30.82
37-S	A	4/5/1999	7.14	39.24	31.48
37-S	A	4/5/1999	8.33	39.24	30.91
37-S	A	10/4/1999	7.70	39.24	30.92
37-S	A	10/4/1999	8.36	39.24	30.88
37-S	A	10/2/2000	8.49	39.24	30.75
37-S	A	10/1/2001	8.40	39.24	30.84
37-S	A	10/14/2002	8.23	39.79	31.56
37-S	A	10/9/2003	7.38	39.79	32.41
37-S	A	10/4/2004	7.82	39.79	31.97
37-S	A	10/10/2005	6.21	39.79	33.58
37-S	A	10/16/2006	5.95	39.79	33.84
37-S	A	10/8/2007	5.60	42.06	36.46
37-S	A	10/13/2008	6.20	42.06	35.86
37-S	A	10/12/2009	7.30	42.06	34.76
37-S	A	10/11/2010	6.92	42.06	35.14
37-S	A	10/10/2011	6.43	42.06	35.63
37-S	A	10/8/2012	6.56	42.06	35.50
37-S	A	10/14/2013	7.01	42.06	35.05
37-S	A	10/12/2015	7.71	42.06	34.35
37-S	A	10/10/2016	7.58	42.06	34.48
37-S	A	10/9/2017	6.70	42.06	35.36
37-S	A	10/8/2018	6.10	42.01	35.91
38-S	A	1/15/1986	8.80	39.14	32.25
38-S	A	3/14/1986	7.34	39.14	31.80
38-S	A	5/13/1986	9.95	39.14	29.19
38-S	A	7/24/1986	10.52	39.14	28.62
38-S	A	10/2/1987	11.49	39.14	27.65
38-S	A	11/30/1987	12.68	39.14	26.46
38-S	A	2/24/1988	12.55	39.14	26.59
38-S	A	4/12/1988	12.68	39.14	26.46
38-S	A	7/26/1988	13.12	39.14	26.02
38-S	A	10/25/1988	13.62	39.14	25.52

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
38-S	A	1/10/1989	13.68	38.85	25.17
38-S	A	4/3/1989	13.97	38.85	24.88
38-S	A	9/14/1989	14.53	38.85	24.32
38-S	A	10/10/1989	14.32	38.85	24.53
38-S	A	1/8/1990	Dry	38.85	NA
38-S	A	4/6/1990	Dry	38.85	NA
38-S	A	7/5/1990	Dry	38.85	NA
38-S	A	10/9/1990	Dry	38.85	NA
38-S	A	1/8/1991	Dry	38.85	NA
38-S	A	4/9/1991	Dry	38.85	NA
38-S	A	7/9/1991	Dry	38.85	NA
38-S	A	10/7/1991	Dry	38.85	NA
38-S	A	1/6/1992	Dry	38.85	NA
38-S	A	4/6/1992	Dry	38.85	NA
38-S	A	7/6/1992	Dry	38.85	NA
38-S	A	10/29/1992	Dry	38.85	NA
38-S	A	1/5/1993	13.97	38.85	24.88
38-S	A	4/5/1993	13.08	38.85	25.77
38-S	A	7/6/1993	14.30	38.85	24.55
38-S	A	10/15/1993	Dry	38.85	NA
38-S	A	1/11/1994	14.45	38.85	24.40
38-S	A	4/4/1994	14.19	38.85	24.66
38-S	A	7/6/1994	13.70	38.85	25.15
38-S	A	10/5/1994	9.81	38.85	29.04
38-S	A	1/10/1995	11.36	38.85	27.49
38-S	A	4/5/1995	9.50	38.85	29.35
38-S	A	7/5/1995	11.62	38.85	27.23
38-S	A	10/9/1995	12.12	38.85	26.73
38-S	A	7/10/1996	11.74	38.85	27.11
38-S	A	10/1/1996	11.91	38.85	26.94
38-S	A	4/1/1997	10.45	38.85	28.40
38-S	A	Oct-97+	11.63	38.35	26.72
38-S	A	4/1/1998	9.15	38.35	29.20
38-S	A	10/5/1998	10.81	38.35	27.54
38-S	A	4/5/1999	10.72	38.35	27.63
38-S	A	10/4/1999	10.50	38.35	27.85
38-S	A	10/2/2000	11.21	38.35	27.14
38-S	A	10/1/2001	10.05	38.35	28.30
38-S	A	10/14/2002	9.57	38.35	28.78
38-S	A	10/9/2003	8.63	38.35	29.72
38-S	A	10/4/2004	9.12	38.35	29.23
38-S	A	10/10/2005	7.57	38.35	30.78
38-S	A	10/16/2006	7.56	38.35	30.79
38-S	A	10/8/2007	7.07	41.05	33.98
38-S	A	10/13/2008	7.71	41.05	33.34
38-S	A	10/12/2009	9.02	41.05	32.03
38-S	A	10/11/2010	8.55	41.05	32.50
38-S	A	10/10/2011	8.05	41.05	33.00

Historical Water-Level Elevation Measurements					
Former TRW Microwave Facility					
825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
38-S	A	10/8/2012	8.25	41.05	32.80
38-S	A	10/14/2013	8.64	41.05	32.41
38-S	A	10/12/2015	8.97	41.05	32.08
38-S	A	10/10/2016	8.79	41.05	32.26
38-S	A	10/9/2017	7.92	41.05	33.13
38-S	A	10/8/2018	7.35	41.13	33.78
EDUCTOR	A	5/13/1986	11.59	40.28	30.65
EDUCTOR	A	10/2/1987	11.50	40.28	28.78
EDUCTOR	A	11/30/1987	NM	40.28	NA
EDUCTOR	A	2/24/1988	12.74	40.28	27.54
EDUCTOR	A	4/12/1988	12.95	40.28	27.33
EDUCTOR	A	7/26/1988	13.30	40.28	26.98
EDUCTOR	A	10/25/1988	12.33	40.28	27.95
EDUCTOR	A	1/10/1989	10.59	40.28	29.69
EDUCTOR	A	4/3/1989	11.63	40.28	28.65
EDUCTOR	A	9/14/1989	11.55	40.28	28.73
EDUCTOR	A	10/10/1989	12.40	40.28	27.88
EDUCTOR	A	1/8/1990	12.07	40.28	28.21
EDUCTOR	A	4/6/1990	11.89	40.28	28.39
EDUCTOR	A	7/5/1990	11.72	40.28	28.56
EDUCTOR	A	10/9/1990	12.76	40.28	27.52
EDUCTOR	A	1/8/1991	12.66	40.28	27.62
EDUCTOR	A	4/9/1991	14.99	40.28	25.29
EDUCTOR	A	7/9/1991	16.04	40.28	24.24
EDUCTOR	A	10/7/1991	16.72	40.28	23.56
EDUCTOR	A	1/6/1992	15.25	40.28	25.03
EDUCTOR	A	4/6/1992	15.13	40.28	25.15
EDUCTOR	A	7/6/1992	15.60	40.28	24.68
EDUCTOR	A	10/29/1992	13.92	40.28	26.36
EDUCTOR	A	1/5/1993	15.54	40.28	24.74
EDUCTOR	A	4/5/1993	15.08	40.28	25.20
EDUCTOR	A	7/6/1993	16.37	40.28	23.91
EDUCTOR	A	10/15/1993	16.54	40.28	23.74
EDUCTOR	A	1/11/1994	16.50	40.28	23.78
EDUCTOR	A	4/4/1994	16.56	40.28	23.72
EDUCTOR	A	7/6/1994	16.35	40.28	23.93
EDUCTOR	A	10/5/1994	16.24	40.28	24.04
EDUCTOR	A	1/10/1995	15.98	40.28	24.30
EDUCTOR	A	4/5/1995	16.11	40.28	24.17
EDUCTOR	A	7/5/1995	16.08	40.28	24.20
EDUCTOR	A	10/9/1995	16.25	40.28	24.03
EDUCTOR	A	7/10/1996	16.37	40.28	23.91
EDUCTOR	A	10/1/1996	NM	40.28	NA
EDUCTOR	A	4/1/1997	15.90	40.28	24.38
EDUCTOR	A	10/1/1997	16.22	41.07	24.85
EDUCTOR	A	4/1/1998	16.09	41.07	24.98
EDUCTOR	A	10/5/1998	11.87	41.07	29.20
EDUCTOR	A	4/5/1999	16.08	41.07	24.99

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
EDUCTOR	A	10/4/1999	15.97	41.07	25.10
EDUCTOR	A	10/2/2000	16.31	41.07	24.76
EDUCTOR	A	10/1/2001	11.27	41.07	29.80
EDUCTOR	A	10/1/2002	9.36	39.54	30.18
EDUCTOR	A	10/9/2003	8.57	39.54	30.97
EDUCTOR	A	10/4/2004	9.03	39.54	30.51
EDUCTOR	A	10/10/2005	7.89	39.54	31.65
EDUCTOR	A	10/16/2006	7.78	39.54	31.76
EDUCTOR	A	10/8/2007	7.50	42.24	34.74
EDUCTOR	A	10/13/2008	7.88	42.24	34.36
EDUCTOR	A	10/12/2009	8.81	42.24	33.43
EDUCTOR	A	10/11/2010	8.48	42.24	33.76
EDUCTOR	A	10/10/2011	8.39	42.24	33.85
EDUCTOR	A	10/8/2012	8.08	42.24	34.16
EDUCTOR	A	3 (corrected for sc	8.45*	42.24	33.79
EDUCTOR	A	4/14/2014	7.89	42.24	34.35
EDUCTOR	A	9/24/2014	8.20	42.24	34.04
		Per USEPA approval, the Eductor was destroyed.			
T-1B	B1	1/16/1986	7.70	37.40	29.70
T-1B	B1	3/12/1986	6.29	37.40	31.11
T-1B	B1	3/14/1986	7.47	37.40	29.93
T-1B	B1	4/21/1986	9.40	37.40	28.00
T-1B	B1	5/13/1986	8.23	37.40	29.17
T-1B	B1	7/24/1986	9.75	37.40	27.65
T-1B	B1	10/2/1987	10.45	37.40	26.95
T-1B	B1	11/30/1987	12.70	37.40	24.70
T-1B	B1	2/24/1988	12.86	37.40	24.54
T-1B	B1	4/12/1988	14.03	37.40	23.37
T-1B	B1	7/26/1988	15.21	37.40	22.19
T-1B	B1	10/25/1988	15.90	37.40	21.50
T-1B	B1	1/10/1989	15.46	39.68	24.22
T-1B	B1	4/3/1989	18.95	39.68	20.73
T-1B	B1	9/14/1989	18.23	39.68	21.45
T-1B	B1	10/10/1989	18.49	39.68	21.19
T-1B	B1	1/8/1990	20.54	39.68	19.14
T-1B	B1	4/6/1990	19.38	39.68	20.30
T-1B	B1	7/5/1990	19.92	39.68	19.76
T-1B	B1	10/9/1990	21.07	39.68	18.61
T-1B	B1	1/8/1991	21.60	39.68	18.08
T-1B	B1	4/9/1991	20.54	39.68	19.14
T-1B	B1	7/12/1991	21.05	39.68	18.63
T-1B	B1	10/7/1991	21.78	39.68	17.90
T-1B	B1	1/6/1992	20.94	39.68	18.74
T-1B	B1	4/6/1992	19.53	39.68	20.15
T-1B	B1	7/6/1992	20.38	39.68	19.30
T-1B	B1	10/5/1992	18.86	39.68	20.82
T-1B	B1	1/5/1993	20.28	39.68	19.40
T-1B	B1	4/5/1993	18.52	39.68	21.16

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-1B	B1	7/6/1993	19.64	39.68	20.04
T-1B	B1	10/15/1993	13.34	39.68	26.34
T-1B	B1	1/11/1994	16.93	39.68	22.75
T-1B	B1	4/4/1994	15.01	39.68	24.67
T-1B	B1	7/6/1994	13.47	39.68	26.21
T-1B	B1	10/5/1994	12.80	39.68	26.88
T-1B	B1	1/10/1995	12.60	39.68	27.08
T-1B	B1	4/5/1995	10.95	39.68	28.73
T-1B	B1	7/5/1995	13.86	39.68	25.82
T-1B	B1	10/9/1995	12.84	39.68	26.84
T-1B	B1	7/10/1996	13.97	39.68	25.71
T-1B	B1	10/1/1996	14.51	39.68	25.17
T-1B	B1	4/1/1997	11.88	39.53	27.65
T-1B	B1	10/1/1997	12.90	39.02	26.12
T-1B	B1	4/1/1998	10.56	39.02	28.46
T-1B	B1	10/5/1998	11.66	39.02	27.36
T-1B	B1	4/5/1999	11.87	39.02	27.15
T-1B	B1	10/4/1999	11.46	39.02	27.56
T-1B	B1	10/2/2000	13.09	39.02	25.93
T-1B	B1	10/1/2001	11.54	39.02	27.48
T-1B	B1	10/14/2002	10.99	39.02	28.03
T-1B	B1	10/9/2003	9.31	39.02	29.71
	Per Water Board approval, well 1B was abandoned in February 2004.				
T-2B	B1	3/14/1986	9.19	39.69	33.04
T-2B	B1	5/13/1986	26.24	39.69	13.45
T-2B	B1	7/24/1986	19.23	39.69	20.46
T-2B	B1	10/2/1987	20.46	39.69	19.23
T-2B	B1	11/30/1987	25.89	39.69	13.80
T-2B	B1	2/24/1988	26.00	39.69	13.69
T-2B	B1	4/12/1988	24.56	39.69	15.13
T-2B	B1	7/26/1988	23.00	39.69	16.69
T-2B	B1	10/25/1988	26.29	39.69	13.40
T-2B	B1	1/10/1989	26.07	39.67	13.60
T-2B	B1	4/3/1989	23.84	39.67	15.83
T-2B	B1	9/14/1989	23.42	39.67	16.25
T-2B	B1	10/10/1989	23.53	39.67	16.14
T-2B	B1	1/8/1990	22.99	39.67	16.68
T-2B	B1	4/6/1990	24.96	39.67	14.71
T-2B	B1	7/5/1990	29.13	39.67	10.54
T-2B	B1	10/9/1990	23.96	39.67	15.71
T-2B	B1	1/8/1991	24.32	39.67	15.35
T-2B	B1	4/9/1991	24.75	39.67	14.92
T-2B	B1	7/12/1991	24.67	39.67	15.00
T-2B	B1	10/7/1991	29.98	39.67	9.69
T-2B	B1	1/6/1992	16.95	39.67	22.72
T-2B	B1	4/6/1992	27.36	39.67	12.31
T-2B	B1	7/6/1992	15.70	39.67	23.97
T-2B	B1	10/5/1992	26.35	39.67	13.32

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-2B	B1	1/5/1993	24.65	39.67	15.02
T-2B	B1	4/5/1993	24.94	39.67	14.73
T-2B	B1	7/6/1993	26.50	39.67	13.17
T-2B	B1	10/15/1993	22.98	39.67	16.69
T-2B	B1	1/11/1994	21.31	39.67	18.36
T-2B	B1	4/4/1994	26.18	39.67	13.49
T-2B	B1	7/6/1994	21.36	39.67	18.31
T-2B	B1	10/5/1994	25.32	39.67	14.35
T-2B	B1	1/10/1995	26.98	39.67	12.69
T-2B	B1	4/5/1995	10.75	39.67	28.92
T-2B	B1	7/5/1995	22.58	39.67	17.09
T-2B	B1	10/9/1995	25.44	39.67	14.23
T-2B	B1	7/10/1996	23	39.67	16.67
T-2B	B1	10/1/1996	14.08	39.67	25.59
T-2B	B1	4/1/1997	26.15	39.67	13.52
T-2B	B1	10/1/1997	NM	39.24	NA
T-2B	B1	4/1/1998	25.58	39.24	13.66
T-2B	B1	10/5/1998	11.89	39.24	27.35
T-2B	B1	4/5/1999	Dry	39.24	NA
T-2B	B1	10/4/1999	25.48	39.24	13.76
T-2B	B1	10/2/2000	10.76	39.24	28.48
T-2B	B1	10/1/2001	9.76	39.24	29.48
T-2B	B1	10/1/2002	9.79	39.53	29.74
T-2B	B1	10/9/2003	8.56	39.53	30.97
T-2B	B1	10/4/2004	9.04	39.53	30.49
T-2B	B1	10/10/2005	7.71	39.53	31.82
T-2B	B1	10/16/2006	7.57	39.53	31.96
T-2B	B1	10/8/2007	7.29	42.23	34.94
T-2B	B1	10/13/2008	8.05	42.23	34.18
T-2B	B1	10/12/2009	8.82	42.23	33.41
T-2B	B1	10/11/2010	8.41	42.23	33.82
T-2B	B1	10/10/2011	7.89	42.23	34.34
T-2B	B1	10/8/2012	8.08	42.23	34.15
T-2B	B1	10/13/2013	8.36	42.23	33.87
T-2B	B1	4/14/2014	7.91	42.23	34.32
T-2B	B1	9/24/2014	8.18	42.23	34.05
		Per USEPA approval, well T-2B was destroyed.			
T-4B	B1	1/16/1986	9.30	38.96	31.63
T-4B	B1	3/14/1986	12.96	38.96	26.00
T-4B	B1	4/21/1986	15.60	38.96	23.36
T-4B	B1	5/13/1986	11.51	38.96	27.45
T-4B	B1	7/24/1986	15.88	38.96	23.08
T-4B	B1	10/2/1987	15.32	38.96	23.64
T-4B	B1	11/30/1987	19.59	38.96	19.37
T-4B	B1	2/24/1988	18.67	38.96	20.29
T-4B	B1	4/12/1988	19.63	38.96	19.33
T-4B	B1	7/26/1988	19.87	38.96	19.09
T-4B	B1	10/25/1988	20.98	38.96	17.98

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-4B	B1	1/10/1989	20.75	38.70	17.95
T-4B	B1	4/3/1989	20.95	38.70	17.75
T-4B	B1	9/14/1989	19.64	38.70	19.06
T-4B	B1	10/10/1989	19.50	38.70	19.20
T-4B	B1	1/8/1990	21.53	38.70	17.17
T-4B	B1	4/6/1990	20.47	38.70	18.23
T-4B	B1	7/5/1990	NM	38.70	NA
T-4B	B1	10/9/1990	22.95	38.70	15.75
T-4B	B1	1/8/1991	23.04	38.70	15.66
T-4B	B1	4/9/1991	22.69	38.70	16.01
T-4B	B1	7/9/1991	23.36	38.70	15.34
T-4B	B1	10/7/1991	24.44	38.70	14.26
T-4B	B1	1/6/1992	22.57	38.70	16.13
T-4B	B1	4/6/1992	21.83	38.70	16.87
T-4B	B1	7/6/1992	22.19	38.70	16.51
T-4B	B1	10/5/1992	20.42	38.70	18.28
T-4B	B1	1/5/1993	22.31	38.70	16.39
T-4B	B1	4/5/1993	21.46	38.70	17.24
T-4B	B1	7/6/1993	22.40	38.70	16.30
T-4B	B1	10/15/1993	19.84	38.70	18.86
T-4B	B1	1/11/1994	22.61	38.70	16.09
T-4B	B1	4/4/1994	22.16	38.70	16.54
T-4B	B1	7/6/1994	20.57	38.70	18.13
T-4B	B1	10/5/1994	17.33	38.70	21.37
T-4B	B1	1/10/1995	16.87	38.70	21.83
T-4B	B1	4/5/1995	14.26	38.70	24.44
T-4B	B1	7/5/1995	16.33	38.70	22.37
T-4B	B1	10/9/1995	16.75	38.70	21.95
T-4B	B1	7/10/1996	16.78	38.70	21.92
T-4B	B1	10/1/1996	18.70	38.70	20.00
T-4B	B1	4/1/1997	15.63	38.70	23.07
T-4B	B1	10/1/1997	15.89	38.23	22.34
T-4B	B1	4/1/1998	12.93	38.23	25.30
T-4B	B1	10/5/1998	13.89	38.23	24.34
T-4B	B1	4/5/1999	16.11	38.23	22.12
T-4B	B1	10/4/1999	14.07	38.23	24.16
T-4B	B1	10/2/2000	16.43	38.23	21.80
T-4B	B1	10/1/2001	13.36	38.23	24.87
T-4B	B1	10/14/2002	12.39	38.23	25.84
T-4B	B1	10/9/2003	11.00	38.23	27.23
T-4B	B1	10/4/2004	10.91	38.23	27.32
T-4B	B1	10/10/2005	8.32	38.23	29.91
T-4B	B1	10/16/2006	8.07	38.23	30.16
T-4B	B1	10/8/2007	7.60	40.93	33.33
T-4B	B1	10/13/2008	8.98	40.93	31.95
T-4B	B1	10/12/2009	10.71	40.93	30.22
T-4B	B1	10/11/2010	9.86	40.93	31.07
T-4B	B1	10/10/2011	9.16	40.93	31.77

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-4B	B1	10/8/2012	9.38	40.93	31.55
T-4B	B1	10/14/2013	9.71	40.93	31.22
T-4B	B1	10/13/2014	9.00	40.93	31.93
T-4B	B1	10/12/2015	10.10	40.93	30.83
T-4B	B1	10/10/2016	9.47	40.93	31.46
T-4B	B1	10/9/2017	8.51	40.93	32.42
T-4B	B1	10/8/2018	7.79	40.98	33.19
T-5B	B1	1/16/1986	10.00	40.67	32.45
T-5B	B1	3/14/1986	10.37	40.67	30.30
T-5B	B1	4/23/1986	11.20	40.67	29.47
T-5B	B1	5/13/1986	10.11	40.67	30.56
T-5B	B1	7/24/1986	10.86	40.67	29.81
T-5B	B1	10/2/1987	15.75	40.67	24.92
T-5B	B1	11/30/1987	17.12	40.67	23.55
T-5B	B1	2/24/1988	16.62	40.67	24.05
T-5B	B1	4/12/1988	19.20	40.67	21.47
T-5B	B1	7/26/1988	18.63	40.67	22.04
T-5B	B1	10/25/1988	20.71	40.67	19.96
T-5B	B1	1/10/1989	20.80	39.67	18.87
T-5B	B1	4/3/1989	20.55	39.67	19.12
T-5B	B1	9/14/1989	21.12	39.67	18.55
T-5B	B1	10/10/1989	21.03	39.67	18.64
T-5B	B1	1/8/1990	21.85	39.67	17.82
T-5B	B1	4/6/1990	22.92	39.67	16.75
T-5B	B1	7/5/1990	23.06	39.67	16.61
T-5B	B1	10/9/1990	22.87	39.67	16.80
T-5B	B1	1/8/1991	23.27	39.67	16.40
T-5B	B1	4/9/1991	22.81	39.67	16.86
T-5B	B1	7/12/1991	23.00	39.67	16.67
T-5B	B1	10/7/1991	23.79	39.67	15.88
T-5B	B1	1/6/1992	23.07	39.67	16.60
T-5B	B1	4/6/1992	20.59	39.67	19.08
T-5B	B1	7/6/1992	20.80	39.67	18.87
T-5B	B1	10/5/1992	17.55	39.67	22.12
T-5B	B1	1/5/1993	19.04	39.67	20.63
T-5B	B1	4/5/1993	21.24	39.67	18.43
T-5B	B1	7/6/1993	21.08	39.67	18.59
T-5B	B1	10/15/1993	20.65	39.67	19.02
T-5B	B1	1/11/1994	22.15	39.67	17.52
T-5B	B1	4/4/1994	21.13	39.67	18.54
T-5B	B1	7/6/1994	20.93	39.67	18.74
T-5B	B1	10/5/1994	18.77	39.67	20.90
T-5B	B1	1/10/1995	18.75	39.67	20.92
T-5B	B1	4/5/1995	17.70	39.67	21.97
T-5B	B1	7/5/1995	18.75	39.67	20.92
T-5B	B1	10/9/1995	18.24	39.67	21.43
T-5B	B1	7/10/1996	20.65	39.67	19.02
T-5B	B1	10/1/1996	20.60	39.67	19.07

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-5B	B1	4/1/1997	17.28	39.67	22.39
T-5B	B1	10/1/1997	17.32	39.21	21.89
T-5B	B1	4/1/1998	15.45	39.21	23.76
T-5B	B1	10/5/1998	17.77	39.21	21.44
T-5B	B1	4/5/1999	19.38	39.21	19.83
T-5B	B1	10/4/1999	10.46	39.21	28.75
T-5B	B1	10/2/2000	19.25	39.21	19.96
T-5B	B1	10/1/2001	14.99	39.21	24.22
T-5B	B1	10/14/2002	15.43	39.75	24.32
T-5B	B1	10/9/2003	13.95	39.75	25.80
T-5B	B1	10/4/2004	13.70	39.75	26.05
T-5B	B1	10/10/2005	6.17	39.75	33.58
T-5B	B1	10/16/2006	5.31	39.75	34.44
T-5B	B1	10/8/2007	4.99	42.45	37.46
T-5B	B1	10/13/2008	15.72	42.45	26.73
T-5B	B1	10/12/2009	14.55	42.45	27.90
T-5B	B1	10/11/2010	10.45	42.45	32.00
T-5B	B1	10/10/2011	10.04	42.45	32.41
T-5B	B1	10/8/2012	10.33	42.45	32.12
T-5B	B1	10/14/2013	9.99	42.45	32.46
T-5B	B1	10/13/2014	9.62	42.45	32.83
T-5B	B1	10/12/2015	10.06	42.45	32.39
T-5B	B1	10/10/2016	9.44	42.45	33.01
T-5B	B1	10/9/2017	8.41	42.45	34.04
T-5B	B1	10/8/2018	7.63	41.95	34.32
T-7B	B1	1/16/1986	9.70	39.43	32.31
T-7B	B1	3/12/1986	8.16	39.43	31.27
T-7B	B1	3/14/1986	9.90	39.43	29.53
T-7B	B1	4/22/1986	11.00	39.43	28.43
T-7B	B1	5/13/1986	9.65	39.43	29.78
T-7B	B1	7/24/1986	10.75	39.43	28.68
T-7B	B1	10/2/1987	13.98	39.43	25.45
T-7B	B1	11/30/1987	15.75	39.43	23.68
T-7B	B1	2/24/1988	15.21	39.43	24.22
T-7B	B1	4/12/1988	16.83	39.43	22.60
T-7B	B1	7/26/1988	16.37	39.43	23.06
T-7B	B1	10/25/1988	18.16	39.43	21.27
T-7B	B1	1/10/1989	17.82	39.44	21.62
T-7B	B1	4/3/1989	16.99	39.44	22.45
T-7B	B1	9/14/1989	19.35	39.44	20.09
T-7B	B1	10/10/1989	19.60	39.44	19.84
T-7B	B1	1/8/1990	20.56	39.44	18.88
T-7B	B1	4/6/1990	20.37	39.44	19.07
T-7B	B1	7/5/1990	21.16	39.44	18.28
T-7B	B1	10/9/1990	20.79	39.44	18.65
T-7B	B1	1/8/1991	21.01	39.44	18.43
T-7B	B1	4/9/1991	20.48	39.44	18.96
T-7B	B1	7/12/1991	20.77	39.44	18.67

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-7B	B1	10/7/1991	21.77	39.44	17.67
T-7B	B1	1/6/1992	20.98	39.44	18.46
T-7B	B1	4/6/1992	17.20	39.44	22.24
T-7B	B1	7/6/1992	17.63	39.44	21.81
T-7B	B1	10/5/1992	16.52	39.44	22.92
T-7B	B1	1/5/1993	19.15	39.44	20.29
T-7B	B1	4/5/1993	18.53	39.44	20.91
T-7B	B1	7/6/1993	17.95	39.44	21.49
T-7B	B1	10/15/1993	16.60	39.44	22.84
T-7B	B1	1/11/1994	19.20	39.44	20.24
T-7B	B1	4/4/1994	17.90	39.44	21.54
T-7B	B1	7/6/1994	17.76	39.44	21.68
T-7B	B1	10/5/1994	15.67	39.44	23.77
T-7B	B1	1/10/1995	15.45	39.44	23.99
T-7B	B1	4/5/1995	13.99	39.44	25.45
T-7B	B1	7/5/1995	15.71	39.44	23.73
T-7B	B1	10/9/1995	14.50	39.44	24.94
T-7B	B1	7/10/1996	16.35	39.44	23.09
T-7B	B1	10/1/1996	16.68	39.44	22.76
T-7B	B1	4/1/1997	14.22	39.44	25.22
T-7B	B1	10/1/1997	14.34	38.87	24.53
T-7B	B1	4/1/1998	12.54	38.87	26.33
T-7B	B1	10/5/1998	13.62	38.87	25.25
T-7B	B1	4/5/1999	14.74	38.87	24.13
T-7B	B1	10/4/1999	11.31	38.87	27.56
T-7B	B1	10/2/2000	14.68	38.87	24.19
T-7B	B1	10/1/2001	12.67	38.87	26.20
T-7B	B1	10/14/2002	12.24	39.31	27.07
T-7B	B1	10/9/2003	8.62	39.31	30.69
T-7B	B1	10/4/2004	9.35	39.31	29.96
T-7B	B1	10/10/2005	5.61	39.31	33.70
T-7B	B1	10/16/2006	5.14	39.31	34.17
T-7B	B1	10/8/2007	4.93	42.01	37.08
T-7B	B1	10/13/2008	8.76	42.01	33.25
T-7B	B1	10/12/2009	8.47	42.01	33.54
T-7B	B1	10/11/2010	7.94*	42.01	34.07
T-7B	B1	10/10/2011	6.39	42.01	35.62
T-7B	B1	10/8/2012	6.55	42.01	35.46
T-7B	B1	10/14/2013	6.73	42.01	35.28
T-7B	B1	10/13/2014	6.64	42.01	35.37
T-7B	B1	10/12/2015	7.57	42.01	34.44
T-7B	B1	10/10/2016	7.63	42.01	34.38
T-7B	B1	10/9/2017	5.61	42.01	36.4
T-7B	B1	10/8/2018	4.97	41.75	36.78
T-8B	B1	3/10/1986	6.41	38.34	33.92
T-8B	B1	3/17/1986	24.30	38.34	14.04
T-8B	B1	5/13/1986	23.50	38.34	14.84
T-8B	B1	7/24/1986	10.24	38.34	28.10

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-8B	B1	10/2/1987	21.02	38.34	17.32
T-8B	B1	11/30/1987	11.15	38.34	27.19
T-8B	B1	2/24/1988	30.26	38.34	8.08
T-8B	B1	4/12/1988	26.35	38.34	11.99
T-8B	B1	7/26/1988	12.47	38.34	25.87
T-8B	B1	10/25/1988	24.34	38.34	14.00
T-8B	B1	1/10/1989	NM	38.30	NA
T-8B	B1	4/3/1989	24.65	38.30	13.65
T-8B	B1	9/14/1989	22.32	38.30	15.98
T-8B	B1	10/10/1989	13.86	38.30	24.44
T-8B	B1	1/8/1990	14.56	38.30	23.74
T-8B	B1	4/6/1990	26.09	38.30	12.21
T-8B	B1	7/5/1990	24.13	38.30	14.17
T-8B	B1	10/9/1990	23.80	38.30	14.50
T-8B	B1	1/8/1991	24.15	38.30	14.15
T-8B	B1	4/9/1991	25.41	38.30	12.89
T-8B	B1	7/12/1991	24.89	38.30	13.41
T-8B	B1	10/7/1991	27.44	38.30	10.86
T-8B	B1	1/6/1992	16.06	38.30	22.24
T-8B	B1	4/6/1992	20.11	38.30	18.19
T-8B	B1	7/6/1992	16.34	38.30	21.96
T-8B	B1	10/5/1992	14.51	38.30	23.79
T-8B	B1	1/5/1993	14.67	38.30	23.63
T-8B	B1	4/5/1993	24.44	38.30	13.86
T-8B	B1	7/6/1993	13.10	38.30	25.20
T-8B	B1	10/15/1993	21.81	38.30	16.49
T-8B	B1	1/11/1994	25.92	38.30	12.38
T-8B	B1	4/4/1994	23.25	38.30	15.05
T-8B	B1	7/6/1994	24.00	38.30	14.30
T-8B	B1	10/5/1994	25.92	38.30	12.38
T-8B	B1	1/10/1995	29.36	38.30	8.94
T-8B	B1	4/5/1995	31.59	38.30	6.71
T-8B	B1	7/5/1995	11.11	38.30	27.19
T-8B	B1	10/9/1995	31.00	38.30	7.30
T-8B	B1	7/10/1996	10.97	38.30	27.33
T-8B	B1	10/1/1996	30.87	38.30	7.43
T-8B	B1	4/1/1997	28.40	38.30	9.90
T-8B	B1	10/1/1997	13.44	38.30	24.86
T-8B	B1	4/1/1998	13.83	38.30	24.47
T-8B	B1	10/5/1998	14.77	38.30	23.53
T-8B	B1	4/5/1999	15.83	38.30	22.47
T-8B	B1	10/4/1999	14.37	38.30	23.93
T-8B	B1	10/2/2000	9.68	38.30	28.62
T-8B	B1	10/1/2001	8.64	38.30	29.66
T-8B	B1	10/1/2002	8.23	37.63	29.40
T-8B	B1	10/9/2003	7.34	37.63	30.29
T-8B	B1	10/4/2004	7.75	37.63	29.88
T-8B	B1	10/10/2005	6.46	37.63	31.17

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-8B	B1	10/16/2006	6.35	37.63	31.28
T-8B	B1	10/8/2007	6.05	40.33	34.28
T-8B	B1	10/13/2008	6.68	40.33	33.65
T-8B	B1	10/12/2009	7.60	40.33	32.73
T-8B	B1	10/11/2010	7.21	40.33	33.12
T-8B	B1	10/10/2011	6.74	40.33	33.59
T-8B	B1	10/8/2012	6.93	40.33	33.40
T-8B	B1	10/14/2013	7.31	40.33	33.02
T-8B	B1	10/13/2014	6.67	40.33	33.66
T-8B	B1	10/12/2015	7.72	40.33	32.61
T-8B	B1	10/10/2016	7.46	40.33	32.87
T-8B	B1	10/9/2017	6.71	40.33	33.62
T-8B	B1	10/8/2018	6.01	40.43	34.42
T-9B	B1	3/12/1986	6.75	37.14	32.14
T-9B	B1	3/14/1986	24.45	37.14	12.69
T-9B	B1	3/17/1986	24.25	37.14	12.89
T-9B	B1	5/13/1986	8.94	37.14	28.20
T-9B	B1	7/24/1986	27.67	37.14	9.47
T-9B	B1	10/2/1987	12.15	37.14	24.99
T-9B	B1	11/30/1987	19.34	37.14	17.80
T-9B	B1	2/24/1988	21.99	37.14	15.15
T-9B	B1	4/12/1988	23.50	37.14	13.64
T-9B	B1	7/26/1988	24.97	37.14	12.17
T-9B	B1	10/25/1988	26.65	37.14	10.49
T-9B	B1	1/10/1989	24.33	37.11	12.78
T-9B	B1	4/3/1989	23.66	37.11	13.45
T-9B	B1	9/14/1989	17.32	37.11	19.79
T-9B	B1	10/10/1989	21.48	37.11	15.63
T-9B	B1	1/8/1990	25.75	37.11	11.36
T-9B	B1	4/6/1990	20.54	37.11	16.57
T-9B	B1	7/5/1990	18.31	37.11	18.80
T-9B	B1	10/9/1990	31.99	37.11	5.12
T-9B	B1	1/8/1991	23.99	37.11	13.12
T-9B	B1	4/9/1991	22.70	37.11	14.41
T-9B	B1	7/12/1991	31.91	37.11	5.20
T-9B	B1	10/7/1991	Dry	37.11	NA
T-9B	B1	1/6/1992	31.80	37.11	5.31
T-9B	B1	4/6/1992	30.91	37.11	6.20
T-9B	B1	7/6/1992	31.47	37.11	5.64
T-9B	B1	10/5/1992	29.77	37.11	7.34
T-9B	B1	1/5/1993	29.41	37.11	7.70
T-9B	B1	4/5/1993	28.91	37.11	8.20
T-9B	B1	7/6/1993	30.58	37.11	6.53
T-9B	B1	10/15/1993	26.50	37.11	10.61
T-9B	B1	1/11/1994	29.42	37.11	7.69
T-9B	B1	4/4/1994	28.23	37.11	8.88
T-9B	B1	7/6/1994	20.45	37.11	16.66
T-9B	B1	10/5/1994	22.64	37.11	14.47

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-9B	B1	1/10/1995	16.34	37.11	20.77
T-9B	B1	4/5/1995	13.00	37.11	24.11
T-9B	B1	7/5/1995	16.40	37.11	20.71
T-9B	B1	10/9/1995	14.82	37.11	22.29
T-9B	B1	7/10/1996	16.43	37.11	20.68
T-9B	B1	10/1/1996	16.98	37.11	20.13
T-9B	B1	4/1/1997	14.57	37.01	22.44
T-9B	B1	10/1/1997	15.82	37.32	21.50
T-9B	B1	4/1/1998	13.83	37.32	23.49
T-9B	B1	10/5/1998	12.62	37.32	24.70
T-9B	B1	4/5/1999	16.40	37.32	20.92
T-9B	B1	10/4/1999	14.94	37.32	22.38
T-9B	B1	10/2/2000	18.41	37.32	18.91
T-9B	B1	10/1/2001	11.73	37.32	25.59
T-9B	B1	10/14/2002	11.31	37.32	26.01
T-9B	B1	10/9/2003	10.20	37.32	27.12
T-9B	B1	10/4/2004	9.68	37.32	27.64
T-9B	B1	10/10/2005	7.65	37.32	29.67
T-9B	B1	10/16/2006	7.50	36.19	28.69
T-9B	B1	10/8/2007	6.97	38.89	31.92
T-9B	B1	10/13/2008	8.87	38.89	30.02
T-9B	B1	10/12/2009	9.43	38.89	29.46
T-9B	B1	10/11/2010	8.69	38.89	30.20
T-9B	B1	10/10/2011	8.14	38.89	30.75
T-9B	B1	10/8/2012	8.30	38.89	30.59
T-9B	B1	10/14/2013	8.61	38.89	30.28
T-9B	B1	10/13/2014	7.91	38.89	30.98
T-9B	B1	10/12/2015	8.91	38.89	29.98
T-9B	B1	10/10/2016	7.46	38.89	31.43
T-9B	B1	10/9/2017	7.39	38.89	31.50
T-9B	B1	10/8/2018	6.79	38.95	32.16
T-10B	B1	10/1/2001	8.81	37.39	28.58
T-10B	B1	10/14/2002	8.44	37.39	28.95
T-10B	B1	10/9/2003	7.41	37.39	29.98
T-10B	B1	10/4/2004	7.86	37.39	29.53
T-10B	B1	10/10/2005	6.62	37.39	30.77
T-10B	B1	10/16/2006	6.56	37.39	30.83
T-10B	B1	10/8/2007	6.19	40.09	33.90
T-10B	B1	10/13/2008	6.81	40.09	33.28
T-10B	B1	10/12/2009	7.76	40.09	32.33
T-10B	B1	10/11/2010	7.05*	40.09	33.04
T-10B	B1	10/10/2011	6.82	40.09	33.27
T-10B	B1	10/8/2012	7.12	40.09	32.97
T-10B	B1	10/14/2013	7.52	40.09	32.57
T-10B	B1	10/13/2014	6.81	40.09	33.28
T-10B	B1	10/14/2015	7.9	40.09	32.19
T-10B	B1	10/10/2016	7.63	40.09	32.46
T-10B	B1	10/9/2017	6.88	40.09	33.21

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-10B	B1	10/8/2018	6.19	40.13	33.94
T-17B	B1	10/16/2006	6.51	37.91	31.40
T-17B	B1	10/8/2007	6.11	40.61	34.50
T-17B	B1	10/13/2008	7.12	40.61	33.49
T-17B	B1	10/12/2009	8.36	40.61	32.25
T-17B	B1	10/11/2010	7.80	40.61	32.81
T-17B	B1	10/10/2011	7.27	40.61	33.34
T-17B	B1	10/8/2012	7.20	40.61	33.41
T-17B	B1	10/14/2013	7.92	40.61	32.69
T-17B	B1	4/14/2014	7.42	40.61	33.19
T-17B	B1	10/13/2014	7.30	40.61	33.31
T-17B	B1	10/12/2015	7.97	40.61	32.64
T-17B	B1	10/10/2016	8.00	40.61	32.61
T-17B	B1	10/9/2017	7.22	40.61	33.39
T-17B	B1	10/8/2018	6.41	40.72	34.31
T-18B	B1	10/14/2013	6.28	38.78	32.50
T-18B	B1	10/13/2014	6.34	38.78	32.44
T-18B	B1	10/12/2015	7.13	38.78	31.65
T-18B	B1	10/10/2016	6.48	38.78	32.30
T-18B	B1	10/9/2017	5.29	38.78	33.49
T-18B	B1	10/8/2018	4.73	41.41	36.68
T-19B	B1	10/14/2013	7.20	38.72	31.52
T-19B	B1	10/13/2014	7.38	38.72	31.34
T-19B	B1	10/12/2015	8.14	38.72	30.58
T-19B	B1	10/10/2016	6.59	38.72	32.13
T-19B	B1	10/9/2017	5.54	38.72	33.18
T-19B	B1	10/8/2018	5.33	41.37	36.04
T-20B	B1	10/8/2018	4.70	40.65	35.95
T-21B	B1	10/8/2018	6.71	41.53	34.82
T-22B	B1	10/8/2018	5.88	39.13	33.25
T-23B	B1	10/8/2018	6.10	39.28	33.18
T-24B	B1	10/8/2018	7.03	39.19	32.16
T-2C	B2	7/24/1986	29.65	39.40	11.73
T-2C	B2	10/29/1987	25.15	39.40	14.25
T-2C	B2	11/30/1987	35.18	39.40	4.22
T-2C	B2	2/24/1988	34.71	39.40	4.69
T-2C	B2	4/12/1988	NM	39.40	NA
T-2C	B2	7/26/1988	35.70	39.40	3.70
T-2C	B2	10/25/1988	36.86	39.40	2.54
T-2C	B2	1/10/1989	NM	39.37	NA
T-2C	B2	4/3/1989	38.92	39.37	0.45
T-2C	B2	9/14/1989	44.24	39.37	-4.87
T-2C	B2	10/10/1989	33.84	39.37	5.53
T-2C	B2	1/8/1990	31.47	39.37	7.90
T-2C	B2	4/6/1990	40.29	39.37	-0.92
T-2C	B2	8/3/1990	50.84	39.37	-11.47
T-2C	B2	11/13/1990	40.05	39.37	-0.68
T-2C	B2	1/8/1991	29.47	39.37	9.90

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-2C	B2	4/9/1991	31.69	39.37	7.68
T-2C	B2	7/12/1991	36.12	39.37	3.25
T-2C	B2	10/7/1991	47.67	39.37	-8.30
T-2C	B2	1/6/1992	47.25	39.37	-7.88
T-2C	B2	4/6/1992	42.57	39.37	-3.20
T-2C	B2	7/6/1992	46.92	39.37	-7.55
T-2C	B2	10/5/1992	42.87	39.37	-3.50
T-2C	B2	1/5/1993	39.84	39.37	-0.47
T-2C	B2	4/5/1993	37.88	39.37	1.49
T-2C	B2	7/6/1993	40.11	39.37	-0.74
T-2C	B2	10/15/1993	38.82	39.37	0.55
T-2C	B2	1/11/1994	44.54	39.37	-5.17
T-2C	B2	4/4/1994	40.30	39.37	-0.93
T-2C	B2	7/6/1994	35.63	39.37	3.74
T-2C	B2	10/5/1994	31.41	39.37	7.96
T-2C	B2	1/10/1995	34.94	39.37	4.43
T-2C	B2	4/5/1995	18.21	39.37	21.16
T-2C	B2	7/5/1995	35.45	39.37	3.92
T-2C	B2	10/9/1995	31.59	39.37	7.78
T-2C	B2	7/10/1996	31	39.37	8.37
T-2C	B2	10/1/1996	31.00	39.37	8.37
T-2C	B2	4/1/1997	33.65	39.37	5.72
T-2C	B2	10/1/1997	29.50	39.51	10.01
T-2C	B2	4/1/1998	19.25	39.51	20.26
T-2C	B2	10/5/1998	15.45	39.51	24.06
T-2C	B2	4/5/1999	31.50	39.51	8.01
T-2C	B2	10/4/1999	25.18	39.51	14.33
T-2C	B2	10/2/2000	18.40	39.51	21.11
T-2C	B2	10/1/2001	17.50	39.51	22.01
T-2C	B2	10/14/2002	13.91	38.68	24.77
T-2C	B2	10/9/2003	11.66	38.68	27.02
T-2C	B2	10/4/2004	11.01	38.68	27.67
T-2C	B2	10/10/2005	7.53	38.68	31.15
T-2C	B2	10/16/2006	6.83	38.68	31.85
T-2C	B2	10/8/2007	6.39	41.38	34.99
T-2C	B2	10/13/2008	11.58	41.38	29.80
T-2C	B2	10/12/2009	10.56	41.38	30.82
T-2C	B2	10/11/2010	6.69	41.38	34.69
T-2C	B2	10/10/2011	8.36	41.38	33.02
T-2C	B2	10/8/2012	8.75	41.38	32.63
T-2C	B2	10/14/2013	8.98	41.38	32.40
T-2C	B2	4/14/2014	8.62	41.38	32.76
T-2C	B2	9/24/2014	7.50	41.38	33.88
		Per USEPA approval, well T-2C was destroyed.			
T-9C	B3	1/15/1986	7.20	36.68	31.61
T-9C	B3	4/21/1986	10.50	36.68	26.18
T-9C	B3	5/13/1986	9.83	36.68	26.85
T-9C	B3	7/24/1986	11.21	36.68	25.47

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-9C	B3	10/2/1987	17.16	36.68	19.52
T-9C	B3	11/30/1987	18.33	36.68	18.35
T-9C	B3	2/24/1988	17.76	36.68	18.92
T-9C	B3	4/12/1988	19.35	36.68	17.33
T-9C	B3	7/26/1988	18.85	36.68	17.83
T-9C	B3	10/25/1988	20.32	36.68	16.36
T-9C	B3	1/10/1989	21.29	36.67	15.38
T-9C	B3	4/3/1989	22.11	36.67	14.56
T-9C	B3	8/23/1989	22.74	36.67	13.93
T-9C	B3	10/10/1989	21.99	36.67	14.68
T-9C	B3	1/8/1990	22.51	36.67	14.16
T-9C	B3	4/6/1990	23.09	36.67	13.58
T-9C	B3	8/3/1990	23.39	36.67	13.28
T-9C	B3	11/13/1990	23.97	36.67	12.70
T-9C	B3	1/8/1991	23.58	36.67	13.09
T-9C	B3	4/9/1991	23.16	36.67	13.51
T-9C	B3	7/12/1991	23.60	36.67	13.07
T-9C	B3	10/7/1991	25.07	36.67	11.60
T-9C	B3	1/6/1992	23.55	36.67	13.12
T-9C	B3	4/6/1992	21.37	36.67	15.30
T-9C	B3	7/6/1992	21.73	36.67	14.94
T-9C	B3	10/5/1992	19.03	36.67	17.64
T-9C	B3	1/5/1993	22.95	36.67	13.72
T-9C	B3	4/5/1993	22.00	36.67	14.67
T-9C	B3	7/6/1993	23.42	36.67	13.25
T-9C	B3	10/15/1993	23.70	36.67	12.97
T-9C	B3	1/11/1994	24.99	36.67	11.68
T-9C	B3	4/4/1994	23.61	36.67	13.06
T-9C	B3	7/6/1994	22.57	36.67	14.10
T-9C	B3	10/5/1994	18.96	36.67	17.71
T-9C	B3	1/10/1995	20.94	36.67	15.73
T-9C	B3	4/5/1995	18.23	36.67	18.44
T-9C	B3	7/5/1995	20.42	36.67	16.25
T-9C	B3	10/9/1995	18.43	36.67	18.24
T-9C	B3	7/10/1996	20.37	36.67	16.30
T-9C	B3	10/1/1996	22.10	36.67	14.57
T-9C	B3	4/1/1997	15.69	36.57	20.88
T-9C	B3	10/1/1997	17.15	36.11	18.96
T-9C	B3	4/1/1998	13.16	36.11	22.95
T-9C	B3	10/5/1998	14.83	36.11	21.28
T-9C	B3	4/5/1999	18.44	36.11	17.67
T-9C	B3	10/4/1999	12.70	36.11	23.41
T-9C	B3	10/2/2000	17.64	36.11	18.47
T-9C	B3	10/1/2001	15.28	36.11	20.83
T-9C	B3	10/14/2002	12.98	36.11	23.13
T-9C	B3	10/9/2003	11.41	36.11	24.70
T-9C	B3	10/4/2004	10.45	36.11	25.66
T-9C	B3	10/10/2005	7.88	36.11	28.23

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-9C	B3	10/16/2006	6.78	36.11	29.33
T-9C	B3	10/8/2007	6.13	38.81	32.68
T-9C	B3	10/13/2008	11.13	38.81	27.68
T-9C	B3	10/12/2009	9.74	38.81	29.07
T-9C	B3	10/11/2010	9.4	38.81	29.41
T-9C	B3	10/10/2011	7.99	38.81	30.82
T-9C	B3	10/8/2012	8.33	38.81	30.48
T-9C	B3	10/14/2013	8.54	38.81	30.27
T-9C	B3	10/13/2014	8.21	38.81	30.60
T-9C	B3	10/12/2015	9.22	38.81	29.59
T-9C	B3	10/10/2016	8.20	38.81	30.61
T-9C	B3	10/9/2017	6.74	38.81	32.07
T-9C	B3	10/8/2018	5.90	38.82	32.92
T-10C	B2	7/24/1986	11.73	37.51	28.03
T-10C	B2	10/2/1987	18.55	37.51	18.96
T-10C	B2	11/30/1987	19.36	37.51	18.15
T-10C	B2	2/24/1988	18.77	37.51	18.74
T-10C	B2	4/12/1988	20.65	37.51	16.86
T-10C	B2	7/26/1988	20.12	37.51	17.39
T-10C	B2	10/25/1988	22.05	37.51	15.46
T-10C	B2	1/10/1989	23.02	37.50	14.48
T-10C	B2	4/3/1989	23.73	37.50	13.77
T-10C	B2	9/14/1989	24.12	37.50	13.38
T-10C	B2	10/10/1989	23.23	37.50	14.27
T-10C	B2	1/8/1990	23.84	37.50	13.66
T-10C	B2	4/6/1990	24.89	37.50	12.61
T-10C	B2	8/3/1990	25.22	37.50	12.28
T-10C	B2	11/13/1990	26.41	37.50	11.09
T-10C	B2	1/8/1991	25.88	37.50	11.62
T-10C	B2	4/9/1991	25.66	37.50	11.84
T-10C	B2	7/12/1991	26.24	37.50	11.26
T-10C	B2	10/7/1991	27.91	37.50	9.59
T-10C	B2	1/6/1992	26.42	37.50	11.08
T-10C	B2	4/6/1992	24.30	37.50	13.20
T-10C	B2	7/6/1992	24.26	37.50	13.24
T-10C	B2	10/5/1992	20.87	37.50	16.63
T-10C	B2	1/5/1993	23.85	37.50	13.65
T-10C	B2	4/5/1993	25.46	37.50	12.04
T-10C	B2	7/6/1993	27.00	37.50	10.50
T-10C	B2	10/15/1993	26.97	37.50	10.53
T-10C	B2	1/11/1994	28.65	37.50	8.85
T-10C	B2	4/4/1994	27.26	37.50	10.24
T-10C	B2	7/6/1994	26.20	37.50	11.30
T-10C	B2	10/5/1994	21.24	37.50	16.26
T-10C	B2	1/10/1995	25.02	37.50	12.48
T-10C	B2	4/5/1995	21.76	37.50	15.74
T-10C	B2	7/5/1995	24.49	37.50	13.01
T-10C	B2	10/9/1995	19.80	37.50	17.70

Historical Water-Level Elevation Measurements					
Former TRW Microwave Facility					
825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-10C	B2	7/10/1996	24.2	37.50	13.30
T-10C	B2	10/1/1996	25.72	37.50	11.78
T-10C	B2	4/1/1997	20.63	37.66	17.03
T-10C	B2	10/1/1997	19.91	37.06	17.15
T-10C	B2	4/1/1998	15.66	37.06	21.40
T-10C	B2	10/5/1998	17.39	37.06	19.67
T-10C	B2	4/5/1999	22.70	37.06	14.36
T-10C	B2	10/4/1999	13.59	37.06	23.47
T-10C	B2	10/2/2000	21.20	37.06	15.86
T-10C	B2	10/1/2001	16.35	37.06	20.71
T-10C	B2	10/14/2002	15.15	37.06	21.91
T-10C	B2	10/9/2003	14.03	37.06	23.03
T-10C	B2	10/4/2004	13.24	37.06	23.82
T-10C	B2	10/10/2005	8.29	37.06	28.77
T-10C	B2	10/16/2006	7.44	37.06	29.62
T-10C	B2	10/8/2007	6.91	39.76	32.85
T-10C	B2	10/13/2008	14.53	39.76	25.23
T-10C	B2	10/12/2009	12.62	39.76	27.14
T-10C	B2	10/11/2010	11.69	39.76	28.07
T-10C	B2	10/10/2011	9.92	39.76	29.84
T-10C	B2	10/8/2012	10.45	39.76	29.31
T-10C	B2	10/14/2013	11.03	39.76	28.73
T-10C	B2	10/13/2014	10.16	39.76	29.6
T-10C	B2	10/12/2015	10.57	39.76	28.48
T-10C	B2	10/10/2016	9.27	39.05	29.78
T-10C	B2	10/9/2017	8.12	39.05	30.93
T-10C	B2	10/8/2018	7.21	39.46	32.25
T-11C	B2	7/24/1986	10.89	36.60	27.76
T-11C	B2	10/2/1987	17.28	36.60	19.32
T-11C	B2	11/30/1987	18.28	36.60	18.32
T-11C	B2	2/24/1988	17.78	36.60	18.82
T-11C	B2	4/12/1988	19.12	36.60	17.48
T-11C	B2	7/26/1988	18.64	36.60	17.96
T-11C	B2	10/25/1988	19.78	36.60	16.82
T-11C	B2	1/10/1989	20.83	36.60	15.77
T-11C	B2	4/3/1989	21.74	36.60	14.86
T-11C	B2	9/14/1989	22.62	36.60	13.98
T-11C	B2	10/10/1989	21.82	36.60	14.78
T-11C	B2	1/8/1990	22.28	36.60	14.32
T-11C	B2	4/6/1990	NM	36.60	NA
T-11C	B2	8/3/1990	23.03	36.60	13.57
T-11C	B2	11/13/1990	22.30	36.60	14.30
T-11C	B2	1/8/1991	22.84	36.60	13.76
T-11C	B2	4/9/1991	22.30	36.60	14.30
T-11C	B2	7/12/1991	22.91	36.60	13.69
T-11C	B2	10/7/1991	24.19	36.60	12.41
T-11C	B2	1/6/1992	22.71	36.60	13.89
T-11C	B2	4/6/1992	20.38	36.60	16.22
T-11C	B2	7/6/1992	NM	36.60	NA
T-11C	B2	10/5/1992	18.66	36.60	17.94

Historical Water-Level Elevation Measurements					
Former TRW Microwave Facility					
825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-11C	B2	1/5/1993	22.33	36.60	14.27
T-11C	B2	4/5/1993	20.82	36.60	15.78
T-11C	B2	7/6/1993	22.15	36.60	14.45
T-11C	B2	10/15/1993	22.23	36.60	14.37
T-11C	B2	1/11/1994	23.86	36.60	12.74
T-11C	B2	4/4/1994	22.44	36.60	14.16
T-11C	B2	7/6/1994	21.60	36.60	15.00
T-11C	B2	10/5/1994	18.58	36.60	18.02
T-11C	B2	1/10/1995	19.86	36.60	16.74
T-11C	B2	4/5/1995	17.12	36.60	19.48
T-11C	B2	7/5/1995	19.72	36.60	16.88
T-11C	B2	10/9/1995	17.92	36.60	18.68
T-11C	B2	7/10/1996	19.95	36.60	16.65
T-11C	B2	10/1/1996	21.46	36.60	15.14
T-11C	B2	4/1/1997	17.55	36.49	18.94
T-11C	B2	10/1/1997	16.81	35.95	19.14
T-11C	B2	4/1/1998	13.18	35.95	22.77
T-11C	B2	10/5/1998	14.34	35.95	21.61
T-11C	B2	4/5/1999	17.92	35.95	18.03
T-11C	B2	10/4/1999	12.94	35.95	23.01
T-11C	B2	10/2/2000	16.96	35.95	18.99
T-11C	B2	10/1/2001	14.33	35.95	21.62
T-11C	B2	10/14/2002	12.87	35.95	23.08
T-11C	B2	10/9/2003	11.18	35.95	24.77
T-11C	B2	10/4/2004	10.30	35.95	25.65
T-11C	B2	10/10/2005	7.49	35.95	28.46
T-11C	B2	10/16/2006	6.77	35.95	29.18
T-11C	B2	10/8/2007	6.34	38.65	32.31
T-11C	B2	10/13/2008	10.83	38.65	27.82
T-11C	B2	10/12/2009	9.41	38.65	29.24
T-11C	B2	10/11/2010	9.31	38.65	29.34
T-11C	B2	10/10/2011	7.95	38.65	30.70
T-11C	B2	10/8/2012	8.25	38.65	30.40
T-11C	B2	10/14/2013	8.45	38.65	30.20
T-11C	B2	10/13/2014	8.03	38.65	30.62
T-11C	B2	10/12/2015	9.07	38.65	29.58
T-11C	B2	10/10/2016	7.78	38.65	30.87
T-11C	B2	10/9/2017	6.61	38.65	32.04
T-11C	B2	10/8/2018	5.88	38.78	32.90
T-12C	B2	9/14/1989	24.42	38.62	16.32
T-12C	B2	1/8/1990	23.48	38.62	15.14
T-12C	B2	4/6/1990	24.48	38.62	14.14
T-12C	B2	8/3/1990	24.23	38.62	14.39
T-12C	B2	11/13/1990	23.47	38.62	15.15
T-12C	B2	1/8/1991	23.97	38.62	14.65
T-12C	B2	4/9/1991	23.82	38.62	14.80
T-12C	B2	7/12/1991	24.12	38.62	14.50
T-12C	B2	10/7/1991	25.31	38.62	13.31
T-12C	B2	1/6/1992	23.65	38.62	14.97

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-12C	B2	4/6/1992	21.11	38.62	17.51
T-12C	B2	7/6/1992	21.69	38.62	16.93
T-12C	B2	10/5/1992	20.15	38.62	18.47
T-12C	B2	1/5/1993	22.46	38.62	16.16
T-12C	B2	4/5/1993	21.41	38.62	17.21
T-12C	B2	7/6/1993	22.08	38.62	16.54
T-12C	B2	10/15/1993	22.40	38.62	16.22
T-12C	B2	1/11/1994	24.12	38.62	14.50
T-12C	B2	4/4/1994	22.63	38.62	15.99
T-12C	B2	7/6/1994	21.71	38.62	16.91
T-12C	B2	10/5/1994	18.91	38.62	19.71
T-12C	B2	1/10/1995	20.17	38.62	18.45
T-12C	B2	4/5/1995	16.14	38.62	22.48
T-12C	B2	7/5/1995	19.81	38.62	18.81
T-12C	B2	10/9/1995	18.00	38.62	20.62
T-12C	B2	7/10/1996	19.9	38.62	18.72
T-12C	B2	10/1/1996	21.61	38.62	17.01
T-12C	B2	4/1/1997	17.60	38.56	20.96
T-12C	B2	10/1/1997	16.84	38.04	21.20
T-12C	B2	4/1/1998	13.45	38.04	24.59
T-12C	B2	10/5/1998	14.12	38.04	23.92
T-12C	B2	4/5/1999	17.66	38.04	20.38
T-12C	B2	10/4/1999	13.77	38.04	24.27
T-12C	B2	10/2/2000	16.23	38.04	21.81
T-12C	B2	10/1/2001	14.35	38.04	23.69
T-12C	B2	10/14/2002	12.39	38.04	25.65
T-12C	B2	10/9/2003	10.11	38.04	27.93
T-12C	B2	10/4/2004	9.42	38.04	28.62
T-12C	B2	10/10/2005	6.92	38.04	31.12
T-12C	B2	10/16/2006	6.24	38.04	31.80
T-12C	B2	10/8/2007	5.91	40.74	34.83
T-12C	B2	10/13/2008	9.7	40.74	31.04
T-12C	B2	10/12/2009	8.83	40.74	31.91
T-12C	B2	10/11/2010	8.36	40.74	32.38
T-12C	B2	10/10/2011	7.16	40.74	33.58
T-12C	B2	10/8/2012	7.43	40.74	33.31
T-12C	B2	10/14/2013	7.68	40.74	33.06
T-12C	B2	10/13/2014	7.54	40.74	33.2
T-12C	B2	10/12/2015	8.57	40.74	32.17
T-12C	B2	10/10/2016	7.31	40.74	33.43
T-12C	B2	10/9/2017	5.99	40.74	34.75
T-12C	B2	10/8/2018	5.19	40.84	35.65
36-DD	B2	1/15/1986	8.10	39.37	33.48
36-DD	B2	3/10/1986	NM	39.37	NA
36-DD	B2	3/12/1986	6.53	39.37	32.84
36-DD	B2	3/14/1986	6.56	39.37	32.81
36-DD	B2	3/17/1986	NM	39.37	NA
36-DD	B2	4/21/1986	8.10	39.37	31.27

Historical Water-Level Elevation Measurements					
Former TRW Microwave Facility					
825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
36-DD	B2	4/22/1986	NM	39.37	NA
36-DD	B2	4/23/1986	NM	39.37	NA
36-DD	B2	5/13/1986	8.11	39.37	31.26
36-DD	B2	7/24/1986	8.23	39.37	31.14
36-DD	B2	10/2/1987	10.21	39.37	29.16
36-DD	B2	11/30/1987	11.08	39.37	28.29
36-DD	B2	2/24/1988	10.94	39.37	28.43
36-DD	B2	4/12/1988	11.52	39.37	27.85
36-DD	B2	7/26/1988	11.79	39.37	27.58
36-DD	B2	10/25/1988	12.36	39.37	27.01
36-DD	B2	1/10/1989	12.82	39.20	26.38
36-DD	B2	4/3/1989	13.18	39.20	26.02
36-DD	B2	8/23/1989	14.14	39.20	25.06
36-DD	B2	10/10/1989	13.25	39.20	25.95
36-DD	B2	1/8/1990	14.06	39.20	25.14
36-DD	B2	4/6/1990	14.75	39.20	24.45
36-DD	B2	8/3/1990	14.30	39.20	24.90
36-DD	B2	10/9/1990	14.46	39.20	24.74
36-DD	B2	1/8/1991	16.12	39.20	23.08
36-DD	B2	4/9/1991	14.69	39.20	24.51
36-DD	B2	7/12/1991	15.59	39.20	23.61
36-DD	B2	10/7/1991	15.80	39.20	23.40
36-DD	B2	1/6/1992	15.03	39.20	24.17
36-DD	B2	4/6/1992	10.95	39.20	28.25
36-DD	B2	7/6/1992	13.40	39.20	25.80
36-DD	B2	10/5/1992	12.50	39.20	26.70
36-DD	B2	1/5/1993	13.19	39.20	26.01
36-DD	B2	4/5/1993	10.88	39.20	28.32
36-DD	B2	7/6/1993	11.47	39.20	27.73
36-DD	B2	10/15/1993	12.46	39.20	26.74
36-DD	B2	1/11/1994	12.83	39.20	26.37
36-DD	B2	4/4/1994	12.58	39.20	26.62
36-DD	B2	7/6/1994	12.80	39.20	26.40
36-DD	B2	10/5/1994	10.75	39.20	28.45
36-DD	B2	1/10/1995	8.69	39.20	30.51
36-DD	B2	4/5/1995	8.46	39.20	30.74
36-DD	B2	7/5/1995	10.08	39.20	29.12
36-DD	B2	10/9/1995	9.52	39.20	29.68
36-DD	B2	7/10/1996	10.19	39.20	29.01
36-DD	B2	10/1/1996	10.56	39.20	28.64
36-DD	B2	4/1/1997	8.89	39.20	30.31
36-DD	B2	Oct-97+	9.62	38.74	29.12
36-DD	B2	4/1/1998	7.87	38.74	30.87
36-DD	B2	10/5/1998	8.75	38.74	29.99
36-DD	B2	4/5/1999	8.72	38.74	30.02
36-DD	B2	10/4/1999	8.75	38.74	29.99
36-DD	B2	10/2/2000	9.40	38.74	29.34
36-DD	B2	10/1/2001	8.91	38.74	29.83

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
36-DD	B2	10/14/2002	8.64	38.74	30.10
36-DD	B2	10/9/2003	7.03	38.74	31.71
36-DD	B2	10/4/2004	7.07	38.74	31.67
36-DD	B2	10/10/2005	5.92	38.74	32.82
36-DD	B2	10/16/2006	5.76	38.74	32.98
36-DD	B2	10/8/2007	5.45	41.58	36.13
36-DD	B2	10/13/2008	6.76	41.58	34.82
36-DD	B2	10/12/2009	6.85	41.58	34.73
36-DD	B2	10/11/2010	6.55	41.58	35.03
36-DD	B2	10/10/2011	5.72	41.58	35.86
36-DD	B2	10/8/2012	5.91	41.58	35.67
36-DD	B2	10/14/2013	6.05	41.58	35.53
36-DD	B2	10/13/2014	6.2	41.58	35.38
36-DD	B2	10/12/2015	7.11	41.58	34.47
36-DD	B2	10/10/2016	6.51	41.58	35.07
36-DD	B2	10/9/2017	5.22	41.58	36.36
36-DD	B2	10/8/2018	4.74	41.52	36.78
T-8D	B4	1/15/1986	7.50	38.29	32.85
T-8D	B4	4/23/1986	8.10	38.29	30.19
T-8D	B4	5/13/1986	8.03	38.29	30.26
T-8D	B4	7/24/1986	9.34	38.29	28.95
T-8D	B4	10/2/1987	14.55	38.29	23.74
T-8D	B4	11/30/1987	14.48	38.29	23.81
T-8D	B4	2/24/1988	13.46	38.29	24.83
T-8D	B4	4/12/1988	14.27	38.29	24.02
T-8D	B4	7/26/1988	15.03	38.29	23.26
T-8D	B4	10/25/1988	17.18	38.29	21.11
T-8D	B4	1/10/1989	17.15	38.28	21.13
T-8D	B4	4/3/1989	18.27	38.28	20.01
T-8D	B4	9/14/1989	14.97	38.28	23.31
T-8D	B4	10/10/1989	18.26	38.28	20.02
T-8D	B4	1/8/1990	18.57	38.28	19.71
T-8D	B4	4/6/1990	17.85	38.28	20.43
T-8D	B4	7/5/1990	17.97	38.28	20.31
T-8D	B4	10/9/1990	16.78	38.28	21.50
T-8D	B4	1/8/1991	17.53	38.28	20.75
T-8D	B4	4/9/1991	16.07	38.28	22.21
T-8D	B4	7/9/1991	17.15	38.28	21.13
T-8D	B4	10/7/1991	17.83	38.28	20.45
T-8D	B4	1/6/1992	16.94	38.28	21.34
T-8D	B4	4/6/1992	14.25	38.28	24.03
T-8D	B4	7/6/1992	15.02	38.28	23.26
T-8D	B4	10/5/1992	12.97	38.28	25.31
T-8D	B4	1/5/1993	17.02	38.28	21.26
T-8D	B4	4/5/1993	14.35	38.28	23.93
T-8D	B4	7/6/1993	14.32	38.28	23.96
T-8D	B4	10/15/1993	16.87	38.28	21.41
T-8D	B4	1/11/1994	15.31	38.28	22.97

Historical Water-Level Elevation Measurements Former TRW Microwave Facility 825 Stewart Drive, Sunnyvale, California					
Well Number	Zone	Date Measured	Depth to Water (feet below top of casing)	Top of Casing Elevation (feet, MSL)	Water-Level Elevation (feet, MSL)
T-8D	B4	4/4/1994	14.42	38.28	23.86
T-8D	B4	7/6/1994	14.54	38.28	23.74
T-8D	B4	10/5/1994	12.40	38.28	25.88
T-8D	B4	1/10/1995	12.06	38.28	26.22
T-8D	B4	4/5/1995	9.88	38.28	28.40
T-8D	B4	7/5/1995	11.26	38.28	27.02
T-8D	B4	10/9/1995	10.69	38.28	27.59
T-8D	B4	7/10/1996	10.49	38.28	27.79
T-8D	B4	10/1/1996	11.31	38.28	26.97
T-8D	B4	4/1/1997	7.11	38.19	31.08
T-8D	B4	10/1/1997	7.83	37.65	29.82
T-8D	B4	4/1/1998	3.83	37.65	33.82
T-8D	B4	10/5/1998	5.32	37.65	32.33
T-8D	B4	4/5/1999	5.43	37.65	32.22
T-8D	B4	10/4/1999	4.75	37.65	32.90
T-8D	B4	10/2/2000	8.17	37.65	29.48
T-8D	B4	10/1/2001	5.90	37.65	31.75
T-8D	B4	10/14/2002	5.89	37.65	31.76
T-8D	B4	10/9/2003	NM	37.65	NA
T-8D	B4	10/4/2004	3.77	37.65	33.88
T-8D	B4	10/10/2005	1.54	37.65	36.11
T-8D	B4	10/16/2006	1.1	37.65	36.55
T-8D	B4	10/8/2007	0.45	40.35	39.90
T-8D	B4	10/13/2008	3.20	40.35	37.15
T-8D	B4	10/12/2009	4.01	40.35	36.34
T-8D	B4	10/11/2010	3.14	40.35	37.21
T-8D	B4	10/10/2011	1.49	40.35	38.86
T-8D	B4	10/8/2012	1.81	40.35	38.54
T-8D	B4	10/14/2013	2.57	40.35	37.78
T-8D	B4	10/13/2014	3.54	40.35	36.81
T-8D	B4	10/12/2015	4.70	40.35	35.65
T-8D	B4	10/10/2016	2.96	40.35	37.39
T-8D	B4	10/9/2017	1.63	40.35	38.72
T-8D	B4	10/8/2018	0.02	38.83	38.81

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 i

NA Not Applicable

NAVD88 North American Vertical Datum 1988

NGVD29 National Goeodetic Vertical Datum 1929

\+ = Measurements taken by AMD.

* = Data from October 2010 groundwater sampling event used

Appendix C

Historical Groundwater Analytical Results

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

		Well Number/	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
		Dates	(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-1A (ZA)		Aug-83	ND<1.0	660	--	--	--	ND	4	ND<1.0	ND<1.0	--	--	--	ND<1.0		ND	--	--	--	--	--
T-1A		Sep-83	7	1,000	--	--	--	--	5	ND	ND<1.0	--	--	--	ND		--	--	--	--	--	--
T-1A		Sep-83	3	540	--	--	510	--	3	ND	ND<1.0	--	--	--	ND		--	--	--	--	--	--
T-1A		Mar-84	--	680	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	--	--
T-1A		Aug-84	5	950	--	--	360	ND	7	ND	ND	--	--	--	ND		ND	--	--	--	--	--
T-1A		Nov-84	4	930	--	--	--	--	5	--	--	--	--	--	--		--	--	--	--	--	--
T-1A		Oct-85	10	640	--	--	--	ND<5.0	30	ND<5.0	ND<5.0	--	--	--	ND<5.0		ND<5.0	--	--	--	--	--
T-1A		Jan-86	ND<5.0	630	--	--	490	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--		ND<5.0	--	--	--	--	--
T-1A		Apr-86	ND<2.0	340	--	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	ND<2.0		ND<2.0	--	--	--	--	--
T-1A		Jul-86	ND<1.0	140	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	ND<1.0		ND<1.0	--	--	--	--	--
T-1A		Sep-86	ND<2.0	420	--	--	--	ND<2.0	5	ND<2.0	ND<2.0	--	--	--	ND<2.0		ND<2.0	--	--	--	--	--
T-1A		Jan-87	ND<10	140	--	--	--	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10		ND<10	--	--	--	--	--
T-1A		Apr-87	ND<2.5	160	--	--	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	ND<2.5		ND<2.5	--	--	--	--	--
T-1A		Jun-87	ND<1.0	190	--	--	--	ND<1.0	7.0	ND<1.0	ND<1.0	--	--	--	ND<1.0		ND<1.0	--	--	--	--	--
T-1A		Oct-87	ND<2.5	160	--	--	--	ND<2.5	8.6	ND<2.5	ND<2.5	--	--	--	ND<2.5		ND<2.5	--	--	--	--	--
T-1A		Jan-88	ND<1.0	200	--	--	--	ND<1.0	3.1	ND<1.0	1.5	--	--	--	9.1		ND<1.0	--	--	--	--	--
T-1A		Jun-88	ND<0.5	56	--	--	--	ND<0.5	1.5	ND<0.5	ND<0.5	--	--	--	10		ND<0.5	--	--	--	--	--
T-1A		Aug-88	ND<1.0	60	--	--	67	ND<1.0	0.9	ND<1.0	ND<1.0	--	--	--	ND<1.0		ND<1.0	--	--	--	--	--
T-1A		Nov-88	ND<0.5	88	--	--	--	ND<0.5	0.5	ND<0.5	2.7	--	--	--	ND<0.5		ND<0.5	--	--	--	--	--
T-1A		Feb-89	ND<0.5	86	--	--	--	ND<0.5	ND<0.5	ND<0.5	1.3	--	--	--	ND<0.5		ND<0.5	--	--	--	--	--
T-1A		Aug-89	ND<0.5	87	--	--	--	ND<0.5	ND<0.5	ND<0.5	0.9	--	--	--	ND<0.5		ND<0.5	--	--	--	--	--
T-1A		Oct-89	ND<0.5	90	--	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<0.5		ND<0.5	--	--	--	--	--
T-1A		Apr-90	ND<0.5	110	--	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-1A		Oct-93	ND<5.0	120	--	--	--	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-1A		Oct-94	ND<5.0	74	--	--	ND<5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-1A		Oct-95	ND<1.0	61	--	--	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
T-1A		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1A		Oct-97	ND<1.0	51	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<2.0	ND	--	--	--	--
T-1A		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-1A		Oct-99	ND<1.0	34	--	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
T-1A		Oct-00	ND<2.0	34	--	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-1A		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<1.0	ND<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-1A		Oct-02	ND<0.5	35	--	--	--	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	--	--	--	--
T-1A			Per Water Board approval, well T-1A was abandoned in February 2004.																			
T-2A (ZA)		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	--	--	--	--	--
T-2A		Sep-83	4,000	730,000	--	--	2,000	--	ND	ND	ND	--	--	--	ND	ND	--	--	--	--	--	--
T-2A		Sep-83	7,000	890,000	--	--	3,000	--	ND	ND	ND	--	--	--	ND	ND	--	--	--	--	--	--
T-2A		Mar-84	--	13,000	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-2A		Aug-84	8,600	190,000	--	--	21,000	300	ND	600	ND	--	--	--	ND	ND	ND	--	--	--	--	--
T-2A		Nov-84	5,400	520,000	--	--	17,000	--	ND<500	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-2A		Oct-85	4,600	12,000	--	--	15,000	ND<50	ND<50	ND<50	ND<50	--	--	--	ND<50	ND	ND<50	--	--	--	--	--
T-2A		Mar-86	ND<100	9,800	--	--	2,500	ND<100	ND<100	ND<100	ND<100	--	--	--	--	ND	ND<100	--	--	--	--	--
T-2A		Apr-86	3,700	15,000	--	--	13,000	650	ND<100	ND<100	ND<100	--	--	--	--	ND	ND<100	--	--	--	--	--
T-2A		Apr-86	1,700	10,000	--	--	30,000	740	ND<100	ND<100	ND<100	--	--	--	ND<100	ND	ND<100	--	--	--	--	--
T-2A		Jul-86	980	6,400	--	--	5,400	540	ND<50	ND<50	ND<50	--	--	--	ND<50	ND	650	--	--	--	--	--
T-2A		Jan-87	380	2,900	--	--	5,500	ND<50	ND<50	ND<50	ND<50	--	--	--	ND<50	ND	610	--	--	--	--	--

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

T-2A		Oct-87	190	980	--	--	330	40	7.5	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	46	--	--	--	--	--
T-2A		Jun-88	610	4,000	--	--	4,200	4,600	ND<50	ND<50	ND<50	--	--	--	ND<50	ND	ND<50	--	--	--	--	--
T-2A		Jun-88	530	3,200	--	--	3,100	4,000	1.6	15	1.4	--	--	--	ND<5.0	ND	32	--	--	--	--	--
T-2A		Aug-88	250	1,400	--	--	5,700	11,000	ND<100	ND<100	ND<100	--	--	--	ND<100	ND	ND<100	--	--	--	--	--
T-2A		Nov-88	260	1,300	--	--	4,200	18,000	ND<100	ND<100	ND<100	--	--	--	ND<100	ND	ND<100	--	--	--	--	--
T-2A		Nov-88	ND<10	1,300	--	--	3,800	3,600	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-2A		Feb-89	220	620	--	--	240	ND<10	ND<10	ND<10	ND<10	--	--	--	380	ND	ND<10	--	--	--	--	--
T-2A		May-89	140	470	--	--	500	340	ND<5.0	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-2A		Aug-89	41	2,300	--	--	30	ND<10	ND<10	ND<10	ND<10	--	--	--	18	ND	ND<10	--	--	--	--	--
T-2A		Oct-89	84	230	--	--	23	220	ND<1.0	3	ND<1.0	--	--	--	ND<1.0	ND	79	--	--	--	--	--
T-2A		Apr-90	40	160	--	--	12	7.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
T-2A		Jul-90	40	100	--	--	40	3.3	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	3.4	ND	--	--	--	--
T-2A		Apr-91	12	120	--	--	50	ND<1	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
T-2A		Jan-92	0.8	42	--	--	6.1	4.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-2A		Apr-92	30	4,400	--	--	410	120	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-2A		Oct-92	10	640	--	--	650	80	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	2.1	ND	--	--	--	--
T-2A		Apr-93	18	1,300	--	--	1,710	14	ND<0.5	13	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-2A		Oct-93	16	5,800	--	--	4,732	300	ND<5.0	49	ND<5.0	ND	ND	ND	ND<5.0	ND	23	ND	--	--	--	--
T-2A		Feb-94	6.3	1,900	--	--	2,723	260	ND<0.5	32	1.1	ND	ND	ND	1.9	ND	9.6	ND	--	--	--	--
T-2A		Apr-94	3.9	1,600	--	--	2,216	120	ND<0.5	21	ND<0.5	ND	ND	ND	ND<0.5	ND	2.2	ND	--	--	--	--
T-2A		Oct-94	ND<25	320	--	--	530	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-2A		Apr-95	18	280	--	--	300	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-2A		Oct-95	14	190	--	--	140	13	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-2A		Oct-96	3.3	71	97	1.0	--	9.5	ND<0.5	0.6	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-2A		Apr-97	37	330	250	4.4	--	3.1	ND<1.7	2.1	ND<1.7	ND	ND	ND	1.8	ND	ND<1.7	ND	--	--	--	--
T-2A		Oct-97	71	470	320	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<50	ND<50	--	--	--	--
T-2A		Apr-98	20	440	150	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<40	ND	ND<10	ND<25	--	--	--	--
T-2A		Oct-98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
T-2A		Apr-99	20	210	160	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<25	--	--	--	--
T-2A		Oct-99	27	270	220	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<10	--	--	--	--
T-2A		Oct-00	ND<20	160	520	ND<20	--	330	ND<20	ND<20	ND<20	ND<20	ND	ND	ND<20	ND	ND<20	ND<20	--	--	--	--
T-2A		Jan-01	11	120	330	4.2	--	86	2.3	1.3	ND<1.0	ND	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-2A		Mar-01	13	110	360	5.3	--	400	1.6	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
T-2A		Jun-01	1.1	5.4	57	5.2	--	620	ND<1.0	1.2	1.9	ND	4.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-2A		Aug-01	19	88	400	8.6	--	690	ND<1.0	ND<1.0	1.1	ND	ND<2.0	ND<2.0	--	ND	--	2.9	--	1.8	ND<1.0	5.4
T-2A		Oct-01	ND<50	480	230	ND<50	--	310	ND<50	ND<50	ND<50	ND<50	ND<100	ND<100	ND<100	ND<50	--	ND<50	--	ND<50	ND<50	ND<100
T-2A		Nov-01	10	140	180	6.7	--	460	ND<5.0	ND<5.0	ND<5.0	ND	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<10
T-2A		Jan-02	ND<13	110	210	ND<13	--	240	ND<13	ND<13	ND<13	ND	ND<25	ND<13	--	ND	20	ND<13	--	--	--	--
T-2A		Apr-02	ND<1.0	4.2	45	ND<1.0	--	76	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	76	--	ND<1.0	ND<1.0	ND<2.0
T-2A		Jul-02	ND<1.0	32	94	6.7	--	140	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	--	--	7.1	--	ND<1.0	ND<1.0	ND<2.0
T-2A		Oct-02	1.2	28	31	2	--	37	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	28	ND<1.0	ND<1.0	ND<1.0	3.9
T-2A		Jan-03	ND<1.0	16	12	1.1	--	24	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	16	--	--	--	--
T-2A		Apr-03	ND<1.0	15	7.3	ND<1.0	--	13	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	6.6	--	ND<1.0	ND<1.0	ND<2.0
T-2A		Jul-03	ND<1.0	2.5	17	ND<1.0	--	48	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	14	--	19	ND<1.0	3.8
T-2A		Oct-03	ND<5.0	6.3	66	ND<5.0	--	130	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	24	ND<5.0	ND<5.0	ND<5.0	ND<10
T-2A		Jan-04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	9.7	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
T-2A		Apr-04	ND<1.0	4.4	59	ND<1.0	--	30	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
T-2A		Oct-04	ND<5.0	ND<5.0	200	69	--	100	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	46	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Jan-05	ND<5.0	ND<5.0	150	100	--	49	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	30	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Apr-05	ND<5.0	9.4	13	9.0	--	23	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	13	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Jul-05	ND<5.0	ND<5.0	110	96	--	50	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	60	ND<5.0	ND<5.0	ND<5.0	ND<15

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

T-2A		Oct-05	ND<5.0	ND<5.0	45	49	--	22	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	18	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Jan-06	ND<5.0	ND<5.0	220	190	--	120	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	39	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Apr-06	ND<5.0	ND<5.0	170	110	--	35	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	14	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Oct-06	ND<5.0	ND<5.0	580	270	--	140	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	41	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Apr-07	ND<5.0	25	180	ND<5.0	--	65	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
T-2A		Oct-07	ND<5.0	ND<5.0	650	280	--	200	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	48	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2A		Oct-08	ND<1	2.4	--	--	--	52	ND<1	ND<1	ND<1	ND<1	ND<2	ND<1	ND<1	ND<2	9.4	31	ND<1	ND<1	ND<1	ND<2
T-2A		Oct-09	ND<20	ND<20	--	--	--	1,100	ND<20	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<40	ND<20	46	ND<20	ND<20	ND<20	ND<40
T-2A		Oct-10	ND<20	ND<20	8,700	75	--	5,400	ND<20	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<40	23	140	ND<20	ND<20	ND<20	ND<40
T-2A		Nov-10	ND<50	ND<50	3,200	ND<50	--	2,700	ND<50	ND<50	ND<50	ND<50	ND<100	ND<50	ND<50	ND<100	57	120	--	--	--	--
T-2A		Mar-11	ND<0.50	0.68	7	2.5	--	31	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.2	57	ND<0.50	1.7	ND<0.50	4.8
T-2A		May-11	ND<0.50	0.52	3	2.3	--	5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	39	ND<0.50	ND<0.50	ND<0.50	ND<0.50
T-2A		Oct-11	ND<0.50	ND<0.50	12	6	--	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	3.4	74	ND<0.50	1.7	0.94	5.3
T-2A		Apr-12	ND<0.50	0.84	34	16		27	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	6.1	47	ND<0.50	1.1	0.57	1.8
T-2A		Oct-12	ND<0.50	ND<0.50	120	48		67	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	8.9	78	ND<0.50	1.9	0.53	2.6
T-2A		May-13	ND<0.50	0.53	130	35		68	ND<0.50	ND<0.50	ND<0.50		ND<1.0	ND<0.50	ND<0.50	ND<1.0	5.8	43	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2A	Dup	May-18	ND<0.50	0.59	160	35		81	ND<0.50	ND<0.50	ND<0.50		ND<1.0	ND<0.50	ND<0.50	ND<1.0	6.6	47	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2A		Oct-13	ND<0.50	0.76	340	86		430	ND<0.50	ND<0.50	ND<0.50		ND<1.0	ND<0.50	ND<0.50	ND<1.0	19	85	--	--	--	--
T-2A		Apr-14	ND<5.0	ND<5.0	850	57	--	670	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<10	20	120	ND<5.0	ND<5.0	ND<5.0	ND<10
T-2A	Dup	Apr-18	ND<5.0	ND<5.0	680	51	--	540	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<10	17	110	ND<5.0	ND<5.0	ND<5.0	ND<10
T-2A		Sep-14	ND<5.0	ND<5.0	190	50	--	590	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<10	19	150	--	--	--	--
			Per United States Environmental Protection Agency approval, well T-2A was abandoned in November 2014.																			
T-3A (ZA)		Aug-83	1,100	1,600	--	--	36	ND<5.0	0.2	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-3A		Sep-83	560	300	--	--	91	--	16	ND	ND<1.0	--	--	--	52	ND	--	--	--	--	--	--
T-3A		Sep-83	580	290	--	--	96	--	16	--	ND<1.0	--	--	--	35	ND	--	--	--	--	--	--
T-3A		Mar-84	--	240	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-3A		Aug-84	210	530	--	--	690	ND	13	ND	2	--	--	--	ND	ND	ND	--	--	--	--	--
T-3A		Nov-84	260	1,300	--	--	1,100	--	42	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-3A		Oct-85	170	3,100	--	--	3,200	ND<50	95	ND<50	ND<50	--	--	--	480	ND	ND<50	--	--	--	--	--
T-3A		Oct-85	ND<25	2,700	--	--	1,100	ND<25	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-3A		Apr-86	91	1,500	--	--	220	ND<1.0	12	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND	ND<1.0	--	--	--	--	--
T-3A		Jul-86	180	1,800	--	--	790	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-3A		Sep-86	15	560	--	--	340	ND<2.0	15	ND<2.0	ND<2.0	--	--	--	ND<2.0	ND	ND<2.0	--	--	--	--	--
T-3A		Jan-87	ND<10	3,000	--	--	880	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-3A		Apr-87	20	920	--	--	740	ND<10	100	12	ND<10	--	--	--	86	ND	ND<10	--	--	--	--	--
T-3A		Jun-87	24	900	--	--	720	ND<10	72	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-3A		Oct-87	15	460	--	--	310	ND<2.5	16	ND<2.5	ND<2.5	--	--	--	ND<2.5	ND	ND<2.5	--	--	--	--	--
T-3A		Jan-88	0.7	4	--	--	0.8	ND<0.5	0.6	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-3A		Jan-88	0.5	2	--	--	0.6	ND<0.1	0.2	ND<0.1	ND<0.1	--	--	--	ND<0.1	ND	ND<0.2	--	--	--	--	--
T-3A		May-88	0.4	2	--	--	0.7	ND<0.1	0.2	ND<0.1	ND<0.1	--	--	--	ND<0.1	ND	ND<0.2	--	--	--	--	--
T-3A		May-88	0.4	2	--	--	0.8	ND<0.1	0.2	ND<0.1	ND<0.1	--	--	--	ND<0.1	ND	ND<0.1	--	--	--	--	--
T-3A		Aug-88	0.5	5	--	--	1.1	ND<0.5	1.1	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-3A		Nov-88	ND<0.5	4	--	--	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-3A		Feb-89	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	--	--	--	--	--
T-3A		May-89	ND<1.0	2	--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND	ND<1.0	--	--	--	--	--
T-3A		Aug-89	0.7	5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-3A		Oct-89	ND<0.5	4	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-3A		Jan-90	ND<0.5	8.2	--	--	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	--	--	--	--
T-3A		Apr-90	ND<0.5	1.5	--	--	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	--	--	--	--
T-3A		Jul-90	ND<0.5	4.6	--	--	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	--	--	--	--
T-3A		Oct-90	1.4	11	--	--	ND<0.5	ND<0.5	4.2	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--

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

T-3A		Jan-91	1.4	7.4	--	--	ND<0.5	ND<0.5	0.7	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-3A		Apr-91	2.1	10	--	--	ND<0.5	ND<0.5	3.1	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-3A		Jul-91	3.2	19	--	--	ND<0.5	ND<0.5	6.2	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-3A		Oct-91	5.8	25	--	--	ND<0.5	ND<0.5	5.4	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-3A		Jan-92	2.0	11	--	--	ND<0.5	ND<0.5	2.3	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-3A		Apr-92	4.7	17	--	--	ND<0.5	ND<0.5	5.9	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-3A		Oct-92	1.1	3.0	--	--	ND<0.5	ND<1.0	1.7	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-3A		Oct-93	ND<5.0	280	--	--	120	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-3A		Feb-94	3.7	130	--	--	60	ND<1.0	4.6	ND<0.5	1.2	ND	ND	ND	1.7	ND	ND<0.5	ND	--	--	--	--
T-3A		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	--	--	--	--
T-3A		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	--	--	--	--
T-3A		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	--	--	--	--
T-3A		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<5.0	ND	ND<10	ND	--	--	--	--
T-3A		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<5.0	ND	ND<5.0	ND	--	--	--	--
T-3A		Oct-99	2.1	95	78	ND<2.0	--	9	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-3A		Oct-00	ND<10	140	71	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-3A		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<10	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
T-3A		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<4.0	ND<4.0	ND<2.0	ND<8.0	ND<2.0	ND<2.0	--	--	--	--
T-3A		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<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-3A		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<1.0	ND<4.0	ND<1.0	ND<1.0	--	--	--	--
T-3A		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<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
T-3A		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<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
T-3A		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<15
T-3A		Oct-08	ND<2	140	8.0	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<4
T-3A		Oct-09	1.7	170	44	2.2	--	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<1.0
T-3A		Oct-10	1.1	120	42	1.4	--	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<1.0
T-3A		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<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-3A		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<2.0	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<2.0
T-3A		Oct-13	1.9	250	88	2.6	--	ND<1.0	ND<1.0	0.70 J	ND<1.0	--	ND<2.0	ND<1.0	0.61 J	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
T-3A		Apr-14	1.3	140	51	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<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-3A		Sep-14	1.2	130	65	1.3	--	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 United States Environmental Protection Agency approval, well T-3A was abandoned in November 2014.																			
T-6A (ZA)		Mar-84	--	27	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-6A		Oct-85	ND<0.5	68.5	--	--	10	ND<0.5	12	ND<0.5	ND<0.5	--	--	--	21	ND	ND<0.5	--	--	--	--	--
T-6A		Jan-87	ND<10	52	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	37	ND	ND<10	--	--	--	--	--
T-6A		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	--	--	--	--	--
T-6A		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	--	--	--	--	--
T-6A		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	--	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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	--	--	--	--
T-6A		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<1.0	ND	ND	ND<1.0	ND	ND<1.0	ND<1.0	--	--	--	--
T-6A		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<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-6A		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<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--

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

T-6A		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<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-6A		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<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-6A		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<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
T-6A		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<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
T-6A		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	0.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
T-7A (ZA)		Aug-84	120	6,800	--	--	2,200	ND	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	--
T-7A		Nov-84	15	3,100	--	--	1,800	--	22	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-7A		Oct-85	28	3,800	--	--	4,200	340	87	ND<50	ND<50	--	--	--	ND<50	ND	ND<50	--	--	--	--	--
T-7A		Oct-85	ND<50	3,600	--	--	3,700	ND<50	ND<50	ND<50	ND<50	--	--	--	690	ND	ND<50	--	--	--	--	--
T-7A		Jan-86	ND<25	2,500	--	--	1,400	ND<25	ND<25	ND<25	ND<25	--	--	--	--	ND	ND<25	--	--	--	--	--
T-7A		Apr-86	ND<10	1,400	--	--	ND<10	ND<10	ND<10	1,800	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-7A		Jul-86	ND<25	3,300	--	--	1,900	ND<25	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-7A		Sep-86	ND<12	2,200	--	--	1,500	ND<12	ND<12	ND<12	ND<12	--	--	--	ND<12	ND	ND<12	--	--	--	--	--
T-7A		Jan-87	ND<10	3,000	--	--	2,500	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-7A		Apr-87	ND<25	2,800	--	--	3,500	ND<25	ND<25	59	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-7A		Jun-87	ND<25	3,000	--	--	3,900	ND<25	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-7A		Oct-87	ND<25	2,700	--	--	1,600	ND<25	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-7A		Jan-88	ND<50	3,200	--	--	570	ND<50	ND<50	ND<50	ND<50	--	--	--	ND<50	ND	ND<50	--	--	--	--	--
T-7A		Jun-88	ND<25	1,200	--	--	610	ND<25	ND<25	ND<25	ND<25	--	--	--	360	ND	ND<25	--	--	--	--	--
T-7A		Aug-88	ND<10	970	--	--	320	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-7A		Nov-88	ND<10	1,200	--	--	300	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-7A		Feb-89	ND<25	1,200	--	--	190	ND<25	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-7A		Feb-89	ND<25	1,100	--	--	200	ND<25	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-7A		May-89	5.7	1,300	--	--	320	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-7A		Aug-89	ND<10	1,400	--	--	340	ND<10	38	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-7A		Oct-89	ND<5.0	1,000	--	--	340	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	ND<10	ND	ND<5.0	--	--	--	--	--
T-7A		Oct-89	6	820	--	--	320	ND<2.0	5	ND<2.0	ND<2.0	--	--	--	ND<2.0	ND	ND<2.0	--	--	--	--	--
T-7A		Jan-90	ND<10	1,300	--	--	640	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-7A		Apr-90	ND<10	1,300	--	--	760	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-7A		Jul-90	ND<20	810	--	--	20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-7A		Oct-90	ND<5.0	820	--	--	870	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-7A		Apr-91	ND<5.0	720	--	--	640	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-7A		Jul-91	10	720	--	--	720	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	14	ND	ND<5.0	ND	--	--	--	--
T-7A		Jan-92	ND<10	1,200	--	--	980	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-7A		Apr-92	5.0	980	--	--	425	ND<0.5	3	1	2	ND	ND	ND	1	ND	ND<0.5	ND	--	--	--	--
T-7A		Oct-92	2.4	670	--	--	222	ND<1.0	2	ND<0.5	1	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-7A		Oct-93	ND<5.0	480	--	--	90	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-7A		Oct-94	450	1,700	--	--	3,300	ND<250	ND<250	ND<250	ND<250	ND	ND	ND	ND<250	ND	ND<250	ND	--	--	--	--
T-7A		Nov-94	ND<25	410	--	--	100	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-7A		Oct-95	ND<5.0	400	--	--	47	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	5.9	ND	ND<5.0	ND	--	--	--	--
T-7A		Oct-96	1.8	260	32	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	1.5	ND	ND<1.0	ND	--	--	--	--
T-7A		Oct-97	ND<10	270	33	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<20	ND<50	--	--	--	--
T-7A		Oct-98	ND<5.0	200	18	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<25	--	--	--	--
T-7A		Oct-99	ND<2.0	130	21	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-7A	Dup	Oct-99	ND<2.0	140	20	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-7A		Oct-00	ND<10	120	87	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-7A		Jun-01	1.6	220	76	1.4	--	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	1.2	ND<2.0
T-7A		Oct-01	ND<5.0	260	71	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	--	--	--	--
T-7A		Jan-02	ND<10	290	120	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	ND<10	ND	ND<10	ND<10	--	--	--	--
T-7A		Apr-02	ND<10	350	160	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	ND<10	ND	ND<10	ND<10	--	--	--	--
T-7A		Oct-02	ND<5.0	510	190	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<20	ND<5.0	ND<5.0	--	--	--	--

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

T-7A		Apr-03	ND<1.0	430	210	2.6	--	ND<1.0	ND<1.0	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<2.0
T-7A		Oct-03 (1)	ND<5.0	480	268	8.7	--	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
T-7A		Apr-04	2.0	340	170	4.4	--	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
T-7A		Oct-04	ND<2.0	370	110	4.6	--	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<8.0	ND<2.0	ND<2.0	--	--	--	--
T-7A		Oct-05	ND<2.0	340	130	3.3	--	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	--	--	--	--
T-7A		Apr-06	ND<5.0	360	180	9.9	--	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
T-7A		Jul-06	ND<5.0	450	140	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
T-7A		Oct-06	ND<4.0	330	85	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<8.0	ND<4.0	ND<4.0	ND<8.0	ND<4.0	ND<4.0	--	--	--	--
T-7A	Dup	Oct-18	ND<2.0	320	76	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<4.0	ND<2.0	ND<2.0	--	--	--	--
T-7A		Jan-07	--	430	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<15
T-7A		May-07	ND<5.0	290	100	ND<5.0	--	--	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	5.4	ND<5.0	ND<5.0	ND<5.0	ND<15
T-7A		Oct-07	ND<5.0	370	80	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
T-7A	Dup	Oct-07	ND<5.0	380	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<15
T-7A		Oct-08	ND<4	370	79	4.2	--	ND<4	ND<4	ND<4	ND<4	ND<4	ND<8	ND<4	ND<4	ND<8	ND<4	ND<4	ND<4	ND<4	ND<4	ND<8
T-7A	Dup	Oct-18	ND<4	330	75	ND<4	--	ND<4	ND<4	ND<4	ND<4	ND<4	ND<8	ND<4	ND<4	ND<8	ND<4	ND<4	ND<4	ND<4	ND<4	ND<8
T-7A		Oct-09	1.6	180	52	2.4	--	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<1.0
T-7A	Dup	Oct-18	1.6	180	54	1.9	--	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<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-7A		Oct-10	ND<5.0	220	56	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	ND<5.0	ND<5.0	ND<10
T-7A	Dup	Oct-18	ND<5.0	190	51	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	ND<5.0	ND<5.0	ND<10
T-7A		Oct-11	0.67	140	180	2.1	--	1.8	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
T-7A	Dup	Oct-18	ND<2.5	140	170	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<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-7A		Oct-12	ND<2.5	56/63	230	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<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-7A		Oct-13	1.6 J	240	77	1.7 J	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5		ND<5.0	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A	Dup	Oct-18	1.7 J	250	81	1.8 J	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5		ND<5.0	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A		Oct-14	ND<2.5	230	75	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A	Dup	Oct-18	ND<2.5	170	64	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A		Jun-15	1	220	83	2	--	ND<0.50	ND<0.50	1	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-7A	Dup	Oct-18	ND<5.0	190	90	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	--	--	--	--
T-7A		Oct-15	ND<2.5	170	79	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A		May-16	ND<2.5	140	81	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A	Dup	Oct-18	ND<2.5	170	100	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A		Oct-16	ND<2.5	190	80	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A		Oct-17	ND<2.5	160	84	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A	Dup	Oct-17	ND<2.5	160	82	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-7A		Oct-18	1.4	**140**	**81**	1.3	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.5	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-7A	Dup	Oct-18	1.5	**150**	**82**	1.3	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.6	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-8A (ZA)		Aug-84	130	2,800	--	--	2,100	ND	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	--
T-8A		Nov-84	37	2,200	--	--	1,300	--	9.8	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-8A		Oct-85	44	2,200	--	--	2,400	ND<25	77	ND<25	ND<25	--	--	--	320	ND	ND<25	--	--	--	--	--
T-8A		Apr-86	20	1,100	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	800	--	--	--	--	--
T-8A		Jul-86	ND<10	1,400	--	--	650	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-8A		Jan-87	23	1,200	--	--	540	ND<5.0	24	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	53	--	--	--	--	--
T-8A		Jul-87	ND<10	1,700	--	--	1,000	ND<10	25	ND<10	ND<10	--	--	--	12	ND	ND<10	--	--	--	--	--
T-8A		Oct-87	9.8	690	--	--	350	ND<5.0	17	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-8A		Oct-87	ND<0.5	830	--	--	290	ND<1.0	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<1.0	ND	--	--	--	--	--	--
T-8A		Jan-88	23	570	--	--	330	ND<5.0	18	ND<5.0	ND<5.0	--	--	--	27	ND	ND<5.0	--	--	--	--	--
T-8A		Aug-88	9.0	370	--	--	180	ND<5.0	10	ND<5.0	ND<5.0	--	--	--	25	ND	ND<5.0	--	--	--	--	--
T-8A		Nov-88	7	260	--	--	ND<2.0	ND<2.0	7	ND<2.0	ND<2.0	--	--	--	4	ND	9	--	--	--	--	--
T-8A		Feb-89	ND<10	200	--	--	24	ND<10	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-8A		Aug-89	14	340	--	--	62	ND<1.0	10	4	1	--	--	--	5	ND	ND<1.0	--	--	--	--	--
T-8A		Oct-89	7	250	--	--	65	2	7	2	ND<1.0	--	--	--	3	ND	8	--	--	--	--	--

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

T-8A		Feb-90	2.6	76	--	--	20	ND<0.5	1	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-8A		Apr-90	3.0	99	--	--	28	ND<0.5	1	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-8A		Jul-90	ND<2.0	120	--	--	30	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-8A		Oct-90	2.8	100	--	--	50	ND<0.5	4	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-8A		Jan-91	1.0	100	--	--	58	ND<1.0	1	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
T-8A		Apr-91	ND<2.0	160	--	--	63	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-8A		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	--	--	--	--
T-8A		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	--	--	--	--
T-8A		Oct-92	7.3	260	--	--	ND<50	2	4	ND<0.5	ND<0.5	ND	ND	ND	--	ND	1	ND	--	--	--	--
T-8A		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	--	--	--	--
T-8A		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	--	--	--	--
T-8A		Apr-94	4.9	280	--	--	221	ND<0.5	8	3	ND<0.5	ND	ND	ND	3	ND	1	ND	--	--	--	--
T-8A		Oct-94	ND<25	300	--	--	330	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-8A		Apr-95	ND<5.0	230	--	--	200	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-8A		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	--	--	--	--
T-8A		Apr-96	4.0	230	--	--	180	ND<2.5	3	ND<2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<2.5	ND	--	--	--	--
T-8A		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	--	--	--	--
T-8A		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	--	--	--	--
T-8A		Oct-97	ND<10	210	170	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<20	ND<10	--	--	--	--
T-8A		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<20	ND	ND<5.0	ND<5.0	--	--	--	--
T-8A		Oct-98	3.0	110	120	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-8A		Apr-99	ND<10	110	72	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-8A		Oct-99	2.6	130	77	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-8A		Oct-00	ND<10	150	64	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-8A	Dup	Oct-00	ND<10	140	62	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-8A		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	2.2	ND<2.0
T-8A		Aug-01	5.9	180	72	1.4	--	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<2.0
T-8A		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<2.0
T-8A		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<10
T-8A		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	6.8	2.7
T-8A		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<2.0
T-8A		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<2.0
T-8A		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	1.3	ND<1.0	1.2	ND<2.0
T-8A		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<1.0	--	ND<1.0	--	--	--	--
T-8A		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<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8A		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<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8A		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<10
T-8A		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<10
T-8A		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<2.0
T-8A		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<10
T-8A		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<4.0	ND<1.0	ND<1.0	--	--	--	--
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15
T-8A		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<15

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

T-8A		Oct-08	0.76	84	28	1.1	--	4.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
T-8A		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<0.50	--	--	--	--
T-8A		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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-8A		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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-8A		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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-8A		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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-8A		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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-8A		Oct-12	ND<2.5	160	82	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<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-8A		May-13	1.5	110	58	2.8	--	0.71	ND<0.50	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
T-8A		Oct-13	2.0	110	57	3.6	--	0.91	0.25 J	0.69	0.46 J		ND<1.0	ND<0.50	0.56	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-8A		Apr-14	ND<2.5	130	63	2.8	--	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<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-8A		Oct-14	1.7	110	56	2.6	--	ND<0.50	ND<0.50	0.55	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-8A		Jun-15	0.66	67	81	1.8	--	5.4	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	--	--	--	--
T-8A		Oct-15	0.82	62	100	1.7	--	2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-8A		May-16	ND<0.50	19	110	1.6	--	3.1	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	--	--	--	--
T-8A		Oct-16	0.58	56	90	1.8	--	2.4	ND<0.50	0.6	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0 *F1	ND<0.50	ND<0.50	--	--	--	--
T-8A		Oct-17	0.6	45	110	1.7	--	6.0	ND<0.50	0.54	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-8A		Oct-18	0.67	**75**	**85**	1.3	--	**2.9**	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	--	--	--	--
T-9A (ZA)		Aug-84	280	2,000	--	--	7,900	3,500	ND	47	ND	--	--	--	ND	ND	ND	--	--	--	--	--
T-9A		Nov-84	31	1,800	--	--	4,200	--	12	--	--	--	--	--	--	ND	--	--	--	--	--	--
T-9A		Oct-85	320	5,600	--	--	ND<50	ND<50	60	ND<50	ND<50	--	--	--	1,200	ND	ND<50	--	--	--	--	--
T-9A		Mar-86	120	1,100	--	--	2,500	710	ND<10	ND<10	ND<10	--	--	--	--	ND	ND<10	--	--	--	--	--
T-9A		Mar-86	ND<10	1,700	--	--	2,100	ND<10	ND<10	ND<10	ND<10	--	--	--	--	ND	ND<10	--	--	--	--	--
T-9A		Mar-86	ND<10	2,500	--	--	2,000	ND<10	ND<10	ND<10	ND<10	--	--	--	--	ND	ND<10	--	--	--	--	--
T-9A		Apr-86	ND<10	1,100	--	--	1,600	780	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	ND<10	--	--	--	--	--
T-9A		Jul-86	21	1,100	--	--	1,200	540	ND<10	ND<10	ND<10	--	--	--	ND<10	ND	82	--	--	--	--	--
T-9A		Jul-87	ND<10	1,000	--	--	1,400	390	13	ND<10	ND<10	--	--	--	18	ND	36	--	--	--	--	--
T-9A		Oct-87	44	770	--	--	430	220	22	ND<5.0	ND<5.0	--	--	--	55	ND	ND<5.0	--	--	--	--	--
T-9A		Jan-88	ND<25	1,700	--	--	1,400	230	ND<25	ND<25	ND<25	--	--	--	ND<25	ND	ND<25	--	--	--	--	--
T-9A		May-88	25	1,000	--	--	710	170	26	13	ND<5.0	--	--	--	24	ND	63	--	--	--	--	--
T-9A		Oct-89	69	820	--	--	770	200	14	3	ND<2.0	--	--	--	ND<2.0	ND	110	--	--	--	--	--
T-9A		Feb-90	ND<50	2,800	--	--	200	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-9A		Apr-90	30	2,600	--	--	1,500	120	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9A		Jul-90	45	1,100	--	--	880	64	8.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	11	ND	--	--	--	--
T-9A		Oct-90	20	1,400	--	--	930	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-9A		Jan-91	30	1,700	--	--	700	ND<10	10	10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-9A		Apr-91	20	1,000	--	--	940	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	22	ND	--	--	--	--
T-9A		Jul-91	26	720	--	--	580	ND<5.0	17	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-9A		Jan-92	22	850	--	--	770	ND<5.0	24	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-9A		Apr-92	16	740	--	--	380	ND<5.0	18	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-9A		Oct-92	13	470	--	--	233	8.7	9.3	5.8	3.2	ND	ND	ND	--	ND	21	ND	--	--	--	--
T-9A		Apr-93	8.0	420	--	--	240	30	8.0	ND<5.0	ND<5.0	ND	ND	ND	5.0	ND	16	ND	--	--	--	--
T-9A		Oct-93	7.0	330	--	--	320	ND<10	8.0	ND<5.0	ND<5.0	ND	ND	ND	8.0	ND	17	ND	--	--	--	--
T-9A		Apr-94	9.2	270	--	--	263	6.7	12	9.1	2.3	ND	ND	ND	ND<0.5	ND	22	ND	--	--	--	--
T-9A		Oct-94	ND<25	260	--	--	160	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-9A		Apr-95	4.7	180	--	--	170	ND<6.0	3.8	ND<3.0	ND<3.0	ND	ND	ND	ND<3.0	ND	12	ND	--	--	--	--
T-9A		Oct-95	5.7	210	--	--	252.9	ND<5.0	5.4	3.2	ND<2.5	ND	ND	ND	3.5	ND	14	ND	--	--	--	--
T-9A		Apr-96	6.2	240	--	--	293	ND<2.5	5.3	2.7	ND<2.5	ND	ND	ND	ND<2.5	ND	12	ND	--	--	--	--
T-9A		Oct-96	4.2	190	270	3.5	--	ND<1.0	4.4	2.7	1.7	ND	ND	ND	2.8	ND	11	ND	--	--	--	--
T-9A		Apr-97	5.0	200	250	16	--	1.4	3.9	1.9	1.7	ND	ND	ND	3.3	ND	9.8	ND	--	--	--	--
T-9A		Oct-97	ND<10	210	290	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<20	ND<10	--	--	--	--

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

T-9A		Apr-98	ND<5.0	150	170	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<5.0	--	--	--	--
T-9A		Oct-98	3.4	130	150	2.1	--	ND<2.0	2.6	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	6.0	ND<2.0	--	--	--	--
T-9A		Apr-99	ND<10	140	140	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-9A		Oct-99	3.5	130	100	2.2	--	ND<2.0	2.4	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-9A		Oct-00	ND<10	140	110	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-9A	Dup	Oct-00	ND<10	140	110	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-9A		Aug-01	ND<5.0	120	110	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND<5.0	ND<5.0	ND<25	ND	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
T-9A		Oct-01	ND<5.0	110	87	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<20	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-9A		Jan-02	3.0	140	110	ND<2.5	--	11	ND<2.5	ND<2.5	ND<2.5	ND	ND<5.0	ND<2.5	ND<2.5	ND	3.9	ND<2.5	--	--	--	--
T-9A		Apr-02	3.0	130	100	ND<2.5	--	9.0	ND<2.5	ND<2.5	ND<2.5	ND	ND<5.0	ND<2.5	ND<2.5	ND	3.0	ND<2.5	--	--	--	--
T-9A		Jul-02	ND<2.5	120	95	ND<2.5	--	7.3	ND<2.5	ND<2.5	ND<2.5	ND	ND<5.0	ND<2.5	ND<2.5	ND	ND<2.5	ND<2.5	--	--	--	--
T-9A		Oct-02	ND<5.0	110	66	ND<5.0	--	8.1	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-9A		Apr-03	1.8	120	87	1.4	--	ND<2.0	1.1	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<2.0
T-9A		Oct-03	ND<5.0	120	81	ND<5.0	--	24	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
T-9A		Jan-04	ND<5.0	92	56	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
T-9A		Apr-04	2.9	85	81	2.3	--	7.2	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
T-9A		Oct-04	ND<5.0	110	74	ND<5.0	--	5.3	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
T-9A		Jan-05	ND<5.0	120	92	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
T-9A		Apr-05	ND<5.0	7.5	320	ND<5.0	--	8.2	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
T-9A		Jul-05	ND<5.0	140	90	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
T-9A		Oct-05	ND<5.0	56	170	ND<5.0	--	7.3	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
T-9A		Jan-06	ND<5.0	56	140	ND<5.0	--	21	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
T-9A		Apr-06	ND<5.0	47	190	8.1	--	6.8	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<15
T-9A		Jul-06	ND<5.0	60	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<15
T-9A		Oct-06	ND<5.0	100	100	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
T-9A		Jan-07	ND<5.0	130	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<15
T-9A		May-07	ND<5.0	98	92	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
T-9A		Oct-07	ND<5.0	120	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<15
T-9A		Oct-08	1.3	50	98	2.7	--	1.2	ND<1	ND<1	ND<1	ND<1	ND<2	ND<1	ND<1	ND<2	3.1	ND<1	ND<1	ND<1	ND<1	ND<2
T-9A		Oct-09	1.5	66	82	3.0	--	2.0	ND<0.50	0.58	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	4.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-9A		Oct-10	0.83	48	88	2.2	--	3.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-9A		Oct-11	1.6	73	100	2.9	--	2.2	ND<0.50	0.55	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-9A		Oct-12	0.9	50	82	3.3	--	0.91	ND<0.5	0.54	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<1.0	3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
T-9A		Oct-13	0.97	67	74	2.9	--	0.81	ND<0.50	0.44 J	0.47 J		ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.1	ND<0.50	--	--	--	--
T-9A		Oct-14	1.2	70	91	3.4	--	ND<0.50	ND<0.50	0.71	0.51	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.4	ND<0.50	--	--	--	--
T-9A		Oct-15	1	69	66	3	--	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	3	ND<0.50	--	--	--	--
T-9A		May-16	0.88	56	81	2.6	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.6	ND<0.50	--	--	--	--
T-9A		Oct-16	1	64	78	3	--	1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3	ND<0.50	--	--	--	--
T-9A		Oct-17	0.76	48	77	2.5	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.3	ND<0.50	--	--	--	--
T-9A		Oct-18	0.90	**48**	**75**	2.1	--	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	2.3	ND<0.50	--	--	--	--
T-13A (ZA)		Nov-05	ND<5.0	200	98	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
T-13A		Jan-06	ND<5.0	210	98	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
T-13A		Apr-06	ND<5.0	180	140	6.2	--	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
T-13A		Jul-06	ND<5.0	200	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<15
T-13A		Oct-06	ND<5.0	210	99	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
T-13A		Jan-07	6.2	300	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<15
T-13A		Apr-07	ND<5.0	200	75	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
T-13A		Jul-07	ND<5.0	180	64	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
T-13A		Oct-07	ND<5.0	48	260	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
T-13A		Oct-08	ND<25	38	ND<25	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	ND<25	ND<50	ND<25	ND<25	ND<25	ND<25	3100	ND<50
T-13A		Feb-09	ND<0.50	30	32	2.1	--	8.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	2.9	--	--	--	--

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

T-13A		Oct-09	ND<0.50	26	40	2.40	--	8.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.52	1.2	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-13A		Apr-10	ND<0.50	57	31	1.4	--	4.2	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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-13A		Oct-10	0.52	72	51	2.2	--	6.9	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
T-13A		Oct-11	0.84	70	66	2.8	--	10.0	ND<0.50	0.54	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
T-13A		Apr-12	ND<0.50	0.74	18	1.6	--	5.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.52	ND<0.50	ND<0.50	ND<0.50	0.56	ND<1.0
T-13A		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
T-13A		May-13	ND<0.50	3.1	31	4.1	--	16	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
T-13A	Dup	May-18	ND<0.50	2.9	30	3.9	--	16	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
T-13A		Oct-13	ND<0.50	1.2	79	8.2	--	38	ND<0.50	ND<0.50	0.59		ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-13A		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
T-13A	Dup	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
T-13A		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	--	--	--	--
T-13A	Dup	Oct-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-13A		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	--	--	--	--
T-13A	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	--	--	--	--
T-13A		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	--	--	--	--
T-13A		May-16	ND<0.50	21	71	4.9	--	15	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	--	--	--	--
T-13A	Dup	May-18	ND<0.50	21	71	5.0	--	15	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	--	--	--	--
T-13A		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	--	--	--	--
T-13A		Oct-17	ND<0.50	41	81	3.4	--	11	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	--	--	--	--
T-13A		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	--	--	--	--
T-14A (ZA)		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<15
T-14A		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<15
T-14A		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<15
T-14A		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<15
T-14A		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<15
T-14A		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<15
T-14A		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<15
T-14A		Oct-08	ND<20	ND<20	45	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
T-14A		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	--	--	--	--
T-14A		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
T-14A		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
T-14A		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
T-14A		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
T-14A		Apr-12	ND<0.50	3.0	42	3.1	--	16	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
T-14A		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
T-14A		May-13	ND<0.50	4.2	33	4.4	--	25	ND<0.50	ND<0.50	0.63		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
T-14A		Oct-13	ND<0.50	2.0	53	6.3	--	35	ND<0.50	0.29 J	0.78		ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	0.19 J	--	--	--	--
T-14A		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
T-14A		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	--	--	--	--
T-14A		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	--	--	--	--
T-14A		May-16	ND<0.50	20	40	3.8	--	21	ND<0.50	ND<0.50	0.54	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	ND<0.50	--	--	--	--
T-14A		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	--	--	--	--
T-14A		Oct-17	1	55	55	2.7	--	20	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	--	--	--	--
T-14A		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	--	--	--	--
T-15A (ZA)		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<15
T-15A		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<15
T-15A		Apr-06	ND<5.0	51	140	11	--	29	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
T-15A		Jul-06	ND<5.0	130	91	ND<5.0	--	8.2	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
T-15A		Oct-06	ND<5.0	140	66	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
T-15A		Jan-07	5.2	170	87	ND<5.0	--	7.4	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	ND<5.0	ND<15

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

T-15A		May-07	ND<5.0	140	66	ND<5.0	--	8.2	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
T-15A		Jul-07	ND<5.0	130	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<15
T-15A		Oct-07	ND<5.0	160	75	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
T-15A		Oct-08	1.6	140	53	2.2	--	1.5	ND<1	ND<1	ND<1	ND<1	ND<2	ND<1	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2
T-15A		Oct-09	ND<0.50	92	37	2.4	--	0.61	ND<0.50	0.64	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.90	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-15A		Oct-10	1.3	110	48	2.2	--	0.50	ND<0.50	0.54	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.91	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-15A		Oct-11	3	130	61	3.8	--	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<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-15A		Apr-12	2.2	130	58	3.2	--	ND<0.50	ND<0.50	0.64	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-15A		Oct-12	ND<2.5	130	62	3.8	--	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<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-15A		May-13	1.8	100	50	2.7	--	ND<0.50	ND<0.50	0.61	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
T-15A		Oct-13	2.0	100	62	2.9	--	0.46 J	0.35 J	0.70	0.49 J		ND<1.0	ND<0.50	0.36 J	ND<1.0	1.2	ND<0.50	--	--	--	--
T-15A		Apr-14	1.9	100	49	2.7	--	ND<0.50	ND<0.50	0.59	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-15A		Oct-14	2.2	140	51	3.4	--	ND<0.50	ND<0.50	0.83	0.54	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.5	ND<0.50	--	--	--	--
T-15A		Oct-15	2.1	100	58	2.7	--	ND<0.50	ND<0.50	0.6	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.4	ND<0.50	--	--	--	--
T-15A		May-16	1.8	100	57	2.4	--	ND<0.50	ND<0.50	0.55	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.2	ND<0.50	--	--	--	--
T-15A		Oct-16	1.3	90	50	2.3		ND<0.50	ND<0.50	0.62	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.83	ND<0.50	--	--	--	--
T-15A		Oct-17	1.8	110	62	2.5	--	ND<0.50	ND<0.50	0.62	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.4	ND<0.50	--	--	--	--
T-15A		Oct-18	1.4	**99**	**76**	2.1	--	**0.56**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	ND<0.50	--	--	--	--
T-16A (ZA)		Nov-05	ND<5.0	24	160	ND<5.0	--	32	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
T-16A		Jan-06	ND<5.0	20	120	ND<5.0	--	45	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
T-16A		Apr-06	ND<5.0	17	160	9.5	--	26	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
T-16A		Oct-06	ND<5.0	80	100	ND<5.0	--	8.2	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
T-16A		May-07	ND<5.0	120	71	ND<5.0	--	7.3	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
T-16A		Oct-07	ND<5.0	79	160	ND<5.0	--	8.8	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.1	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<15
T-16A		Oct-08	0.9	63	77	2.3	--	2.6	ND<0.5	0.53	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<1	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
T-16A		Oct-09	0.59	40	44	2.2	--	0.84	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.61	ND<0.5	0.6	ND<0.50	0.56 B	ND<1.0
T-16A		Oct-10	0.81	72	64	2.2	--	0.76	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.89	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-16A		Oct-11	1.6	91	67	2.9	--	0.53	ND<0.50	0.7	ND<0.50	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
T-16A		Oct-12	1	68	63	3.2	--	2.1	ND<0.50	0.57	0.5	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-16A		Oct-13	1.2	94	69	3.6	--	3.2	0.20 J	0.58	0.58		ND<1.0	ND<0.50	0.23 J	ND<1.0	1.4	ND<0.50	--	--	--	--
T-16A		Oct-14	1.7	97	78	3.7	--	2.5	ND<0.50	0.70	0.58	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.7	ND<0.50	--	--	--	--
T-16A		Oct-15	0.61	38	72	2.9	--	23	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1	ND<0.50	--	--	--	--
T-16A		Oct-16	1.1	52	67	2.9	--	16	ND<0.50	ND<0.5	0.5	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.2	ND<0.50	--	--	--	--
T-16A		Oct-17	1	59	72	2.5	--	3.4	ND<0.50	0.51	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.2	ND<0.50	--	--	--	--
T-16A		Oct-18	1.3	**69**	**71**	2.2	--	**1.5**	ND<0.50	0.51	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.3	ND<0.50	--	--	--	--
T-17A (ZA)		Nov-11	1.7	110	6.6	ND<0.50	--	ND<0.50	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.50	ND<1.0	ND<0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-17A		Apr-12	1.3	96	5.8	ND<0.50	--	ND<0.50	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-17A		Oct-12	1.3	92	4.5	ND<0.50	--	ND<0.50	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.62	ND<1.0	ND<0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-17A		May-13	0.80	71	14	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<1.0
T-17A		Oct-13	1.3	86	21	0.42 J	--	ND<0.50	ND<0.50	0.25 J	0.35 J		ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-17A		Apr-14	0.87	57	16	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<1.0
T-17A		Oct-14	0.88	62	30	0.57	--	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	--	--	--	--
T-17A		Jun-15	1.4	76	16	0.51	--	0.71	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	--	--	--	--
T-17A		Oct-15	1.1	63	12	ND<0.50	--	0.58	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	--	--	--	--
T-17A		May-16	1.2	74	6.5	ND<0.50	--	ND<0.50	ND<0.50	ND<0.5	ND<0.50	--	ND<1.0	ND<0.50	0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-17A		Oct-16	0.85	50	15	ND<0.50	--	0.94	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	--	--	--	--
T-17A		Oct-17	1.2	72	13	ND<0.50	--	ND<0.50	ND<0.50	ND<0.5	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-17A		Oct-18	0.86	**69**	**7.3**	ND<0.50	--	ND<0.50	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-19A (ZA)		Sep-07	ND<5.0	140	55	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
T-19A		Oct-07	ND<5.0	53	140	ND<5.0	--	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<15
T-19A		Oct-08	ND<50	ND<50	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	ND<50	ND<50	ND<100	ND<50	ND<50	ND<50	ND<50	3500	ND<100

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

T-19A		Feb-09	ND<0.50	ND<0.50	1.9	0.65	--	1.0	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.0	6.0	--	--	--	--
T-19A	Dup	Feb-18	ND<0.50	ND<0.50	2.6	0.78	--	1.4	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.2	6.3	--	--	--	--
T-19A		Oct-09	ND<0.50	ND<0.50	4.6	0.84	--	2.8	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.3	3.9	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19A		Apr-10	ND<0.50	0.98	1.6	ND<0.50	--	0.88	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.65	1.3	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19A	Dup	Apr-18	ND<0.50	0.89	1.6	ND<0.50	--	0.81	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.56	1.1	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19A		Oct-10	ND<0.50	0.89	7.7	0.72	--	10	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.87	1.2	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19A		Oct-11	ND<0.50	4.1	16	1.60	--	10	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.80	1.3	ND<0.50	ND<0.50	ND<0.50	1
T-19A		Apr-12	ND<0.50	ND<0.50	2.1	1.2	--	0.92	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.60	4.3	ND<0.50	ND<0.50	0.77	ND<1.0
T-19A		Oct-12	ND<0.50	ND<0.50	9.1	1.3	--	5.6	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.8	3.8	ND<0.50	ND<0.50	0.8	ND<1.0
T-19A		May-13	ND<0.50	ND<0.50	3.4	0.84	--	4.3	ND<0.50	ND<0.50	ND<0.50		ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.98	2.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19A		Oct-13	ND<0.50	ND<0.50	2.6	0.87	--	2.3	ND<0.50	ND<0.50	ND<0.50		ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.92	2.6	--	--	--	--
T-19A		Apr-14	ND<0.50	ND<0.50	3.7	1.4	--	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.75	1.3	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19A		Oct-14	ND<0.50	ND<0.50	15	1.9	--	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	0.93	1.8	--	--	--	--
T-19A		Jun-15	ND<0.50	ND<0.50	12	3.2	--	32	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	1.4	--	--	--	--
T-19A		Oct-15	ND<0.50	ND<0.50	13	3.0	--	33	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	0.75	--	--	--	--
T-19A		May-16	ND<0.50	ND<0.50	6.7	1.5	--	12	ND<0.50	ND<0.5	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.78	0.80	--	--	--	--
T-19A		Oct-16	ND<0.50	ND<0.50	3.7	2.6	--	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	0.87	0.52	--	--	--	--
T-19A		Oct-17	ND<0.50	ND<0.50	3.3	2.2	--	17	ND<0.50	ND<0.5	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.82	ND<0.50	--	--	--	--
T-19A		Oct-18	ND<0.50	ND<0.50	**11**	2.1	--	**26**	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	ND<0.50	--	--	--	--
T-23A (ZA)		Sep-07	7.7	210	21	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
T-23A		Oct-07	ND<5.0	130	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<15
T-23A		Oct-08	ND<10	16	12	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	890	ND<20
T-23A		Feb-09	ND<0.50	17	29	2.1	--	9.7	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.5	1.8	--	--	--	--
T-23A		Oct-09	ND<0.50	11	14	2.0	--	3.1	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.55	ND	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-23A		Apr-10	ND<0.50	41	19	2.8	--	2.0	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-23A		Oct-10	0.60	51	37	4.3	--	3.5	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.56	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-23A		Oct-11	0.62	62	39	4.2	--	2.0	ND<0.50	ND<0.5	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
T-23A		Apr-12	ND<0.50	2.0	58	2.0	--	3.2	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	0.79	ND<0.50	ND<0.50	3.5	ND<1.0
T-23A	Dup	Apr-18	ND<0.50	2.0	61	1.9	--	3.0	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.0	0.76	ND<0.50	ND<0.50	3.3	ND<1.0
T-23A		Oct-12	ND<0.50	36	73	2.4	--	6.6	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-23A		May-13	ND<0.50	48	57	4.4	--	7.6	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
T-23A		Oct-13	ND<0.50	19	54	12	--	7.6	ND<0.50	ND<0.5	ND<0.50		ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-23A		Apr-14	ND<0.50	45	60	6.0	--	7.1	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-23A		Oct-14	ND<0.50	32	51	3.3	--	6.5	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-23A		Jun-15	0.83	78	53	2.5	--	4.7	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-23A		Oct-15	0.71	64	61	1.8	--	7.8	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-23A		May-16	0.56	58	51	1.4	--	5.7	ND<0.50	ND<0.5	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-23A		Oct-16	0.57	60	51	1.3	--	4.2	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-23A		Oct-17	0.69 F1	78	55	1.3 F1	--	8.8 F1	ND<0.50 F1	ND<0.5 0.51F2	ND<0.50	--	ND<1.0 F1	ND<0.50 F1	ND<0.50 F1F2	ND<1.0 F2	ND<0.5	ND<0.50	--	--	--	--
T-23A		Oct-18	0.57	**59**	**49**	0.95	--	**9.7**	ND<0.50	ND<0.5	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.5	ND<0.50	--	--	--	--
T-25A (ZA)		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
T-25A		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
T-25A		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
T-25A		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	--	--	--	--
T-25A		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
T-25A		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
T-25A		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
T-25A		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
T-25A		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
T-25A		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
T-25A		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

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

T-25A		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	--	--	--	--
T-25A		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
T-25A		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	--	--	--	--
T-25A		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	--	--	--	--
T-25A		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	--	--	--	--
T-25A		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	--	--	--	--
T-25A		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	--	--	--	--
T-25A		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	--	--	--	--
T-25A		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	--	--	--	--
36S (ZA)		Jun-82	18	710	--	--	ND<10	ND	42	ND<10	ND<10	--	--	--	19	ND	ND	--	--	--	--	--
36S		Aug-82	10	590	--	--	55	ND	19	ND<2.0	ND<2.0	--	--	--	2	ND	ND	--	--	--	--	--
36S		Apr-83	13	400	--	--	23	ND	16	ND	ND	--	--	--	12	ND	ND	--	--	--	--	--
36S		May-83	ND	82	--	--	ND	ND	ND	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	--
36S		Aug-83	19	470	--	--	ND<1.0	ND	36	16	ND<1.0	--	--	--	ND<1.0	ND	ND	--	--	--	--	--
36S		Mar-84	--	360	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--
36S		Aug-84	8	230	--	--	12	ND	23	2	ND	--	--	--	40	ND	ND	--	--	--	--	--
36S		Nov-84	4.7	150	--	--	8.8	--	19	--	--	--	--	--	--	ND	--	--	--	--	--	--
36S		Oct-85	ND<5.0	250	--	--	23	ND<5.0	65	ND<5.0	ND<5.0	--	--	--	90	ND	ND	--	--	--	--	--
36S		Jan-86	11	190	--	--	25	ND<2.0	42	3.4	ND<2.0	--	--	--	ND<2.0	ND	ND<2.0	--	--	--	--	--
36S		Apr-86	3.4	130	--	--	10	ND<0.5	36	3.5	1.5	--	--	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36S		Jul-86	3.3	59	--	--	7.7	ND<0.5	32	3.2	1.6	--	--	--	15	ND	ND<0.5	--	--	--	--	--
36S		Sep-86	5.3	200	--	--	5.75	ND<1.0	27.5	2.9	2.1	--	--	--	16.5	ND	7.95	--	--	--	--	--
36S		Jan-87	ND<10	140	--	--	ND<10	ND<10	34	ND<10	ND<10	--	--	--	28	ND	ND<10	--	--	--	--	--
36S		Apr-87	4	200	--	--	12	ND<2.5	34	6	ND<2.5	--	--	--	19	ND	ND<2.5	--	--	--	--	--
36S		Jun-87	ND<1.0	170	--	--	11	ND<1.0	15	1.6	ND<1.0	--	--	--	8.2	ND	ND<1.0	--	--	--	--	--
36S		Oct-87	3.5	160	--	--	10	ND<1.0	20	2.5	1.7	--	--	--	14	ND	ND<1.0	--	--	--	--	--
36S		Jan-88	5.8	170	--	--	15	ND<1.0	23	3.8	1.3	--	--	--	14	ND	ND<1.0	--	--	--	--	--
36S		May-88	3.9	140	--	--	26	ND<1.0	20	3.3	1.6	--	--	--	13	ND	1.8	--	--	--	--	--
36S		Oct-89	4	130	--	--	13	ND<0.5	5.7	0.8	ND<0.5	--	--	--	2	ND	ND<0.5	--	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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<0.5	ND	ND<0.5	ND<0.5	--	--	--	--
36S		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<0.5	ND	ND<0.5	ND<0.5	--	--	--	--
36S		Oct-99	1.2	50	83	4.4	--	ND<1.0	1.7	ND<1.0	ND<1.0	ND	ND	ND	1.0	ND	ND<1.0	ND<1.0	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		Oct-03+	1.7	100	53	1.6	--	1.1	1.2	0.7	0.7	ND	ND	ND	ND<1.0	ND	ND<0.5	ND<0.5	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--
36S		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	--	--	--	--	--
36S		Oct-09+	2.2	80	9.3	ND<0.5	--	ND<0.5	0.6	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36S		Oct-10+	2.0	75	11	0.6	--	ND<0.5	0.7	0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36S		Oct-11	1.8 J	73	8	ND<0.5	--	ND<0.5	0.7	0.5	ND<0.5	--	--	--	ND<2.0	--	ND<5.0	--	--	--	--	--
36S		Oct-12	2.0 J	1	10	ND<0.5	--	ND<0.5	0.6	0.5	ND<0.5	--	--	--	ND<2.0	--	ND<5.0	--	--	--	--	--
36S		Oct-13	2.3	74	8.1	ND<0.5	--	ND<0.5	0.5	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<5.0	--	--	--	--	--
36S		Oct-14	2.2	73	13	0.8	--	1.7	0.6	0.6	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--

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

36S		Oct-15	2.8	71	9	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36S		Oct-16	2.1	71	93	ND<0.50	--	ND<0.50	0.52	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
36D (ZA)		Aug-82	6.8	500	--	--	52	ND	19	ND<2.0	ND<2.0	--	ND	--	ND<2.0	ND	ND	--	--	--	--	--
36D		May-83	14	9,200	--	--	ND	ND	18	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
36D		Jul-83	8	650	--	--	38	ND	18	2	2	--	ND	--	ND	ND	ND	--	--	--	--	--
36D		Aug-83	15	600	--	--	18	--	36	13	16	--	ND	--	ND<1.0	ND	--	--	--	--	--	--
36D		Mar-84	--	260	--	--	--	--	--	--	--	--	ND	--	--	ND	--	--	--	--	--	--
36D		Aug-84	6	180	--	--	12	ND	19	2	ND	--	ND	--	30	ND	ND	--	--	--	--	--
36D		Nov-84	4.2	160	--	--	10	--	26	--	--	--	ND	--	--	ND	--	--	--	--	--	--
36D		Oct-85	16	220	--	--	17	ND<5.0	77	ND<5.0	ND<5.0	--	ND	--	120	ND	ND<5.0	--	--	--	--	--
36D		Apr-86	3	130	--	--	12	ND<0.5	39	4.3	1.9	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36D		Jul-86	3.6	60	--	--	10	ND<0.5	43	4.8	2.3	--	ND	--	25	ND	ND<0.5	--	--	--	--	--
36D		Sep-86	20	170	--	--	8.6	ND<1.0	40	5.1	3.5	--	ND	--	17	ND	18	--	--	--	--	--
36D		Jan-87	ND<10	170	--	--	ND<10	ND<10	28	ND<10	ND<10	--	ND	--	54	ND	ND<10	--	--	--	--	--
36D		Apr-87	3	160	--	--	13	ND<1.0	25	4.7	1.7	--	ND	--	16	ND	18	--	--	--	--	--
36D		Jun-87	5.9	170	--	--	14	ND<1.0	22	2.9	1.9	--	ND	--	21	ND	24	--	--	--	--	--
36D		Oct-87	3.3	68	--	--	16	ND<0.5	29	3.4	2.3	--	ND	--	22	ND	14	--	--	--	--	--
36D		Jan-88	4.1	100	--	--	20	ND<1.0	34	3.5	1.9	--	ND	--	30	ND	9.4	--	--	--	--	--
36D		May-88	4.2	170	--	--	47	ND<1.0	31	5.5	2.6	--	ND	--	20	ND	11	--	--	--	--	--
36D		Aug-88	5	150	--	--	53	ND<1.0	30	5.6	2.8	--	ND	--	34	ND	11	--	--	--	--	--
36D		Nov-88	3.2	180	--	--	37	ND<1.0	14	3.5	1.6	--	ND	--	16	ND	13	--	--	--	--	--
36D		Feb-89	ND<5.0	180	--	--	36	ND<5.0	8	ND<5.0	ND<5.0	--	ND	--	12	ND	ND<5.0	--	--	--	--	--
36D		Feb-89	ND<2.0	61	--	--	21	ND<2.0	4	ND<2.0	ND<2.0	--	ND	--	ND<2.0	ND	5	--	--	--	--	--
36D		Feb-89	ND<2.0	51	--	--	17	ND<2.0	3	ND<2.0	ND<2.0	--	ND	--	ND<2.0	ND	3	--	--	--	--	--
36D		May-89	ND<2.5	ND<2.5	--	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND	--	ND<2.5	ND	ND<2.5	--	--	--	--	--
36D		Aug-89	4	200	--	--	27	ND<2.0	10	6	ND<2.0	--	ND	--	7	ND	8	--	--	--	--	--
36D		Oct-89	4.3	120	--	--	23	ND<0.5	9.6	2.7	0.8	--	ND	--	7.4	ND	ND<0.5	--	--	--	--	--
36D		Jan-90	3.0	170	--	--	26	ND<1.0	4.0	2.0	ND<1.0	ND	ND	ND	1.0	ND	4.0	ND	--	--	--	--
36D		Apr-90	3.0	170	--	--	18	ND<1.0	2.0	1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	4.0	ND	--	--	--	--
36D		Jul-90	2.7	110	--	--	31	ND<0.5	2.7	1.3	0.9	ND	ND	ND	1.3	ND	5.0	ND	--	--	--	--
36D		Oct-90	2.6	120	--	--	37	ND<0.5	2.7	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	2.1	ND	--	--	--	--
36D		Jan-91	2.0	120	--	--	39	ND<1.0	1.0	1.0	1.0	ND	ND	ND	ND<1.0	ND	3.0	ND	--	--	--	--
36D		Apr-91	ND<2.0	180	--	--	48	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
36D		Jul-91	2.0	130	--	--	32	ND<1.0	1.0	ND<1.0	1.0	ND	ND	ND	1.0	ND	3.0	ND	--	--	--	--
36D		Oct-91	2.5	120	--	--	41	ND<0.5	2.2	1.8	1.2	ND	ND	ND	0.6	ND	2.3	ND	--	--	--	--
36D		Jan-92	1.6	170	--	--	48	ND<1.0	2.9	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	1.6	ND	--	--	--	--
36D		Apr-92	4.0	180	--	--	25	ND<1.0	3.0	1.0	2.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
36D		Oct-92	2.1	92	--	--	6.4	ND<1.0	1.0	ND<0.5	ND<0.5	ND	ND	ND	--	ND	1.6	ND	--	--	--	--
36D		Oct-93	ND<5.0	94	--	--	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
36D		Oct-94	ND<5.0	66	--	--	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	--	--	--	--
36D		Oct-95	ND<1.0	25	--	--	2.1	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
36D		Oct-96	1.2	48	34	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	0.6	ND	--	--	--	--
36D		Oct-97+	ND<0.5	52	91	1.2	--	ND<0.5	2.1	ND<0.5	0.9	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36D		Apr-98+	ND<5.0	81	130	ND<5.0	--	ND<5.0	--	ND<5.0	ND<5.0	ND	ND	ND	ND<20	ND	ND<5.0	ND	--	--	--	--
36D		Oct-99	ND<2.0	85	120	2.7	--	ND<2.0	2.6	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
36D		Oct-00+	1.6	110	97	2.2	--	ND<1.0	1.9	1.0	0.8	ND	ND	ND	1.6	ND	0.7	ND	--	--	--	--
36D	Dup	Oct-00+	1.6	100	91	2.5	--	ND<1.0	1.8	1.1	0.7	ND	ND	ND	1.5	ND	0.7	ND	--	--	--	--
36D		Oct-01+	0.9	67	48	1.1	--	ND<0.5	1.2	0.6	ND<0.5	ND	ND	ND	1.4	ND<1.0	ND<0.5	ND	--	--	--	--
36D		Oct-02+	1.8	150	90	2.3	--	ND<0.5	1.7	1.2	1.0	ND	ND	ND	1.9	ND	1.1	ND	--	--	--	--
36D		Apr-03	ND<1.0	69	40	ND<1.0	--	8.2	ND<1.0	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<2.0
36D		Oct-03+	1.7	110	57	1.5	--	0.9	1.3	0.9	0.8	ND	ND	ND	1.1	ND	0.8	ND	--	--	--	--

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

36D		Apr-04	ND<1.0	45	27	2.5	--	12	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
36D		Oct-04+	1.6	85	46	1.7	--	2.4	1.1	0.8	0.6	ND	ND	ND	1.7	ND	0.8	ND	--	--	--	--
36D		Oct-05+	ND<0.5	4.6	1.5	ND<0.5	--	0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--
36D		Oct-06+	2.1	92	42	1.6	--	0.6	0.9	1.0	0.7	ND	ND	ND	1.2	ND	ND<0.5	ND<0.5	--	--	--	--
36D		Oct-07+	ND<0.5	17	6.1	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.8	ND	ND	ND<0.5	ND	ND<0.5	ND<0.5	--	--	--	--
36D		Oct-08+	0.7	27	5.8	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36D		Oct-09+	ND<0.5	19	40	1.1	--	ND<0.5	ND<0.5	0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36D		Oct-10+	1.4	47	34	1.2	--	ND<0.5	ND<0.5	0.7	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36D		Oct-11	1.6 J	47	29	1.0	--	ND<0.5	ND<0.5	0.6	ND<0.5	--	--	--	ND<2.0	--	ND<5.0	--	--	--	--	--
36D		Oct-11	0.7 J	29	34	1.2	--	ND<0.5	ND<0.5	0.7	ND<0.5	--	--	--	ND<2.0	--	ND<5.0	--	--	--	--	--
36D		Oct-13	1.3	38	28	0.8	--	ND<0.5	ND<0.5	0.6	ND<0.5	--	--	--	ND<2.0	--	ND<5.0	--	--	--	--	--
36D		Oct-14	1.8	56	23	0.9	--	ND<0.5	ND<0.5	0.6	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36D		Oct-15	1.6	40	12	0.6	--	ND<0.5	ND<0.5	0.6	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36D		Oct-16	ND<0.50	2.7	0.84	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
36D		Oct-17	ND<0.50	4.2	2.2	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
37S (ZA)		Jul-82	ND<5.0	210	--	--	ND<5.0	ND	ND<5.0	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND	--	--	--	--	--
37S		Jun-82	ND<10	2,600	--	--	ND<10	ND	ND<10	ND<10	ND<10	--	--	ND	370	ND	ND	--	--	--	--	--
37S		Aug-82	9	1,400	--	--	27	ND	13	ND<2.0	ND<2.0	--	--	ND	78	ND	ND	--	--	--	--	--
37S		Apr-83	10	330	--	--	77	ND	ND	ND	ND	--	--	ND	120	ND	ND	--	--	--	--	--
37S		May-83	ND	270	--	--	17	ND	ND	ND	ND	--	--	ND	ND	ND	ND	--	--	--	--	--
37S		Aug-83	34	41,000	--	--	4,600	5	13	2.0	1.6	--	--	ND	ND<1.0	ND	ND	--	--	--	--	--
37S		Sep-83	37	4,200	--	--	290	--	4	ND	ND	--	--	ND	190	ND	--	--	--	--	--	--
37S		Sep-83	47	3,500	--	--	240	--	5	ND	ND	--	--	ND	14	ND	--	--	--	--	--	--
37S		Mar-84	--	1,400	--	--	--	--	--	--	--	--	--	ND	--	ND	--	--	--	--	--	--
37S		Aug-84	8	760	--	--	52	ND	4	ND	ND	--	--	ND	ND	ND	ND	--	--	--	--	--
37S		Nov-84	6.6	1,300	--	--	32	--	3.2	--	--	--	--	ND	--	ND	--	--	--	--	--	--
37S		Jan-87	ND<5.0	600	--	--	25	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	ND	52	ND	ND<5.0	--	--	--	--	--
37S		Jan-88	ND<10	1,100	--	--	34	ND<10	ND<10	ND<10	ND<10	--	--	ND	95	ND	ND<10	--	--	--	--	--
37S		Jun-88	ND<1.0	150	--	--	170	ND<1.0	5.8	ND<1.0	ND<1.0	--	--	ND	ND<1.0	ND	ND<1.0	--	--	--	--	--
37S		Oct-93	ND<5.0	400	--	--	8.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
37S		Oct-94	ND<5.0	330	--	--	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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--
37S		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	--	--	--	--	--
37S		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	--	--	--	--	--
37S		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	--	--	--	--	--
37S		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<5.0	--	--	--	--	--
37S		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<5.0	--	--	--	--	--
37S		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<5.0	--	--	--	--	--
37S		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<5.0	--	--	--	--	--
37S		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<5.0	--	--	--	--	--
37S		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	--	--	--	--	--

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

37S		Oct-17	5.9	420	43	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	6.7	--	ND<5.0	--	--	--	--	--
38-S (ZA)		Jun-82	ND<10	1,250	--	--	ND<10	ND	ND<10	ND<10	ND<10	--	ND	--	103	ND	ND	--	--	--	--	--
38-S		Aug-82	76	40,000	--	--	3100	3	6.4	2	2.6	--	ND	--	ND<1.0	ND	ND	--	--	--	--	--
38-S		Aug-82	17	2,200	--	--	300	ND	ND<2.0	ND<2.0	ND<2.0	--	ND	--	35	ND	ND	--	--	--	--	--
38-S		May-83	23	2,000	--	--	350	ND	ND	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
38-S		Sep-83	59	2,700	--	--	970	ND	ND<2.0	ND<4.0	1	--	ND	--	140	ND	ND	--	--	--	--	--
38-S		Sep-83	72	6,300	--	--	1700	ND	ND<2.0	4	3	--	ND	--	120	ND	ND	--	--	--	--	--
38-S		Mar-84	--	3,500	--	--	--	--	--	--	--	--	ND	--	--	ND	--	--	--	--	--	--
38-S		Aug-84	28	1,400	--	--	1100	ND	5	3	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
38-S		Nov-84	28	3,200	--	--	510	--	20	--	--	--	ND	--	--	ND	--	--	--	--	--	--
38-S		Oct-85	45	3,700	--	--	410	ND<25	33	ND<25	ND<25	--	ND	--	590	ND	ND<25	--	--	--	--	--
38-S		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	--	--	--	--	--
38-S		Sep-86	ND<25	4,600	--	--	120	ND<25	ND<25	ND<25	ND<25	--	ND	--	150	ND	ND<25	--	--	--	--	--
38-S		Jan-87	ND<10	2,500	--	--	220	ND<10	ND<10	ND<10	ND<10	--	ND	--	180	ND	ND<10	--	--	--	--	--
38-S		Apr-87	26	2,700	--	--	420	ND<10	74	ND<10	ND<10	--	ND	--	91	ND	ND<10	--	--	--	--	--
38-S		Jun-87	260	2,200	--	--	910	ND<10	13	ND<10	ND<10	--	ND	--	83	ND	ND<10	--	--	--	--	--
38-S		Oct-87	ND<25	2,400	--	--	270	ND<25	ND<25	ND<25	ND<25	--	ND	--	100	ND	ND<25	--	--	--	--	--
38-S		Jan-88	ND<50	2,900	--	--	240	ND<50	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
38-S		May-88	ND<25	3,400	--	--	240	ND<25	ND<25	ND<25	ND<25	--	ND	--	95	ND	ND<25	--	--	--	--	--
38-S		Oct-94	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	--	--	--	--
38-S		Oct-95	ND<10	1,100	--	--	180	ND<20	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
38-S		Oct-96	ND<1.7	440	540	4.0	--	ND<1.7	ND<1.7	2.7	ND<1.7	ND	ND	ND	2.9	ND	ND<1.7	ND	--	--	--	--
38-S		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	--	--	--	--
38-S		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	--	--	--	--
38-S		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	--	--	--	--
38-S		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<10	ND<20	ND<20	ND<5.0	ND<5.0	--	--	--	--
38-S		Oct-02	2.6	240	200	6.3	--	8.6	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	3.5	ND<8.0	ND<2.0	ND<2.0	--	--	--	--
38-S		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	--	--	--	--
38-S		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<20	ND<5.0	ND<5.0	--	--	--	--
38-S		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<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
38-S		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<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
38-S		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<0.5	0.61	ND<1.0	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<1.0
38-S		Oct-08	0.65	50	82	2.4	--	30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	1.0	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
38-S		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<0.50	1.1	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
38-S		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<0.50	1.5	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
38-S		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<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
38-S		Apr-12	ND<0.50	32	120	1.4	--	11	ND<0.50	0.60	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.80	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
38-S		Oct-12	0.84	91	200	2.5	--	11	ND<0.50	0.84	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.8	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
38-S		May-13	ND<2.5	60	180	ND<2.5	--	7.2	ND<2.5	ND<2.5	ND<2.5	ND<0.50	ND<5.0	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
38-S		Oct-13	0.93	96	150	1.7	--	7.4	ND<0.50	0.70	0.36 J	ND<0.50	ND<1.0	ND<0.50	1.4	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
38-S		Oct-14	ND<0.50	45	200	2.3	--	12	ND<0.50	0.9	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.3	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
38-S		Oct-15	1.0	83	98	0.98	--	4.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.0	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
38-S		Oct-16	0.6	50	77	0.94	--	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.58	ND<1.0 *	ND<0.50	ND<0.50	--	--	--	--
38-S		Oct-17	ND<0.50	61	170	1.5	--	6.7	ND<0.50	0.62	ND<0.50	--	ND<1.0	ND<0.50	1.4	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
38-S		Oct-18	ND<0.50	**39**	**63**	ND<0.50	--	**2.3**	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<0.50	--	--	--	--
EDUCTOR-11 (ZA)		Oct-85	13000	32,000	--	--	63,000	ND<250	ND<250	ND<250	ND<250	--	ND	--	ND<250	ND	ND<250	--	--	--	--	--
EDUCTOR-11		Apr-86	4200	24,000	--	--	14,000	530	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	9,200	--	--	--	--	--
EDUCTOR-11		Jul-86	2700	75,000	--	--	28,000	2,000	ND<250	ND<250	ND<250	--	ND	--	ND<250	ND	7,700	--	--	--	--	--
EDUCTOR-11		Jan-87	2,700	230,000	--	--	12,000	ND<500	ND<500	ND<500	ND<500	--	ND	--	ND<500	ND	6,700	--	--	--	--	--
EDUCTOR-11		Oct-87	3,400	8,400	--	--	8,800	ND<1,000	ND<1,000	ND<1,000	ND<1,000	--	ND	--	ND<1,000	ND	ND<1,000	--	--	--	--	--
EDUCTOR-11		Dec-87	130	62	--	--	320	ND<50	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--

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

EDUCTOR-11		Feb-89	3.6	62	--	--	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
EDUCTOR-11		May-89	51	970	--	--	120	ND<10	ND<10	ND<10	ND<10	--	ND	--	ND<10	ND	ND<10	--	--	--	--	--
EDUCTOR-11		Oct-89	3.3	60	--	--	2.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	3.3	--	--	--	--	--
EDUCTOR-11		Jan-90	ND<2.0	240	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
EDUCTOR-11		Apr-90	ND<0.5	12	--	--	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
EDUCTOR-11		Jul-90	3.0	53	--	--	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	--	--	--	--
EDUCTOR-11		Apr-93	1,200	26,000	--	--	1,103	3.5	1.9	2.2	ND<0.5	ND	ND	ND	--	ND	15	ND	--	--	--	--
EDUCTOR-11		Aug-93	730	29,000	--	--	470	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	ND<100	ND	ND<50	ND	--	--	--	--
EDUCTOR-11		Oct-93	730	100,000	--	--	630	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
EDUCTOR-11		Feb-94	520	28,000	--	--	150	1.0	1.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	10	ND	--	--	--	--
EDUCTOR-11		Apr-94	810	63,000	--	--	370	49	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
EDUCTOR-11		Oct-94	260	12,000	--	--	370	ND<250	ND<250	ND<250	ND<250	ND	ND	ND	ND<250	ND	ND<250	ND	--	--	--	--
EDUCTOR-11		Apr-95	ND<200	13,000	--	--	690	ND<400	ND<200	200	200	ND	ND	ND	ND<200	ND	ND<200	ND	--	--	--	--
EDUCTOR-11		Oct-95	670	46,000	--	--	1,100	ND<500	ND<250	ND<250	ND<250	ND	ND	ND	ND<250	ND	380	ND	--	--	--	--
EDUCTOR-11		Apr-96	440	23,000	--	--	1,106	100	ND<5.0	6.7	ND<5.0	ND	ND	ND	ND<5.0	ND	370	ND	--	--	--	--
EDUCTOR-11		Oct-96	140	9,800	1,100	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
EDUCTOR-11		Apr-97	120	6,700	450	ND<31	--	ND<31	ND<31	ND<31	ND<31	ND	ND	ND	ND<31	ND	ND<31	ND	--	--	--	--
EDUCTOR-11		Oct-97	ND<500	16,000	ND<500	ND<500	--	ND<500	ND<500	ND<500	ND<500	ND	ND	ND	ND<500	ND	ND<1000	ND<500	--	--	--	--
EDUCTOR-11		Apr-98	520	20,000	810	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND<400	ND	ND<100	ND<100	--	--	--	--
EDUCTOR-11		Oct-98	ND<500	17,000	740	ND<500	--	ND<500	ND<500	ND<500	ND<500	ND	ND	ND	ND<500	ND	ND<500	ND<500	--	--	--	--
EDUCTOR-11		Apr-99	ND<1,000	11,000	ND<1,000	ND<1,000	--	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND	ND	ND	ND<1,000	ND	ND<1,000	ND<1,000	--	--	--	--
EDUCTOR-11		Oct-99	470	13,000	650	ND<250	--	ND<250	ND<250	ND<250	ND<250	ND	ND	ND	ND<250	ND	ND<250	ND<250	--	--	--	--
EDUCTOR-11		Oct-00	ND<400	8,400	680	ND<400	--	ND<400	ND<400	ND<400	ND<400	ND<400	ND	ND	ND<400	ND	ND<400	ND<400	--	--	--	--
EDUCTOR-11		Mar-01	19	310	14,000	110	--	1,500	12	2.0	35	--	ND<2.0	ND<2.0	--	ND	--	20	--	13	ND<1.0	179
EDUCTOR-11		Jun-01	7.9	230	15,000	140	--	6,100	15	66	3.3	--	5.6	ND<2.0	--	ND	--	72	--	63	3.8	97
EDUCTOR-11		Aug-01	140	5,100	7,700	44	--	710	1.2	43	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	39	--	36	ND<1.0	100
EDUCTOR-11		Oct-01	1,200	53,000	18,000	ND<1,000	--	ND<2,000	ND<1,000	ND<1,000	ND<1,000	--	ND<2,000	ND<2,000	--	ND<1,000	--	ND<1,000	--	ND<1,000	ND<1,000	ND<2,000
EDUCTOR-11		Nov-01	150	5,000	5,600	48	--	750	ND<5.0	8.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND	--	11	ND<5.0	42	ND<5.0	169
EDUCTOR-11		Jan-02	1,400	80,000	17,000	110	--	1,200	ND<50	ND<50	ND<50	--	ND<50	ND<50	--	ND	--	400	--	ND<50	ND<50	1,170
EDUCTOR-11		Mar-02	170	3,800	8,000	ND<50	--	540	ND<50	--	ND<50	--	ND<50	ND<50	--	ND	--	ND<50	--	ND<50	ND<50	ND<100
EDUCTOR-11		Jul-02	62	2,600	6,400	30	--	2,400	ND<1.0	19	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	13	--	ND<50	ND<50	ND<100
EDUCTOR-11		Oct-02	120	17,000	20,000	38	--	21,000	ND<1.0	32	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	40	2.9	62	4.0	249
EDUCTOR-11		Jan-03	21	670	9,400	34	--	5,700	7.2	27	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	60	--	--	--	--
EDUCTOR-11	Dup	Jan-18	32	1,200	9,600	28	--	5,600	2.9	24	1.3	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	62	--	--	--	--
EDUCTOR-11		Apr-03	ND<1.0	11	570	12	--	4,500	ND<1.0	1.2	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	130	--	35	1.9	63
EDUCTOR-11	Dup	Apr-18	ND<1.0	7.6	790	12	--	5,500	1.4	1.8	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	110	--	46	1.8	56
EDUCTOR-11		Jul-03	870	15,000	3,800	210	--	24,000	ND<1.0	120	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	97	--	460	5.9	1,020
EDUCTOR-11	Dup	Jul-18	880	32,000	4,000	200	--	27,000	ND<1.0	120	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	98	--	490	7.2	1,030
EDUCTOR-11		Oct-03	14	75	34	9.6	--	560	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	340	ND<5.0	32	ND<5.0	113
EDUCTOR-11	Dup	Oct-18	20	110	53	12	--	550	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	300	ND<5.0	39	ND<5.0	144
EDUCTOR-11		Jan-04	ND<10	ND<10	ND<10	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	ND<10	ND<10	--	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<20
EDUCTOR-11		Apr-04	ND<1.0	ND<1.0	ND<1.0	7	--	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
EDUCTOR-11		Oct-04	ND<5.0	ND<5.0	ND<5.0	9.3	--	28	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	1,200	ND<5.0	120	ND<5.0	380
EDUCTOR-11		Jan-05	ND<0.5	ND<0.5	4,700	180	--	4,400	ND<5.0	9.3	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	1,900	ND<5.0	200	ND<5.0	650
EDUCTOR-11		Apr-05	23	490	19,000	160	--	33,000	ND<5.0	57	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	2,900	ND<5.0	340	8.7	1,180
EDUCTOR-11	Dup	Apr-18	23	430	19,000	160	--	35,000	ND<5.0	66	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	2,800	ND<5.0	330	9.6	1,180
EDUCTOR-11		Jul-05	82	2,200	27,000	150	--	15,000	ND<5.0	130	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	3,600	ND<5.0	ND<500	11	1,200
EDUCTOR-11	Dup	Jul-05-	92	2,100	27,000	180	--	14,000	ND<5.0	140	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	3,500	ND<5.0	ND<500	11	1,100
EDUCTOR-11		Sep-05	ND<250	ND<250	27,000	ND<250	--	18,000	ND<250	ND<250	ND<250	ND<250	ND<250	ND<500	ND<250	ND<250	420	2,900	--	--	--	--
EDUCTOR-11		Oct-05	ND<250	ND<250	3,600	ND<250	--	3,900	ND<250	ND<250	ND<250	--	ND<250	ND<250	--	ND<250	--	1,000	ND<250	ND<250	ND<250	ND<750
EDUCTOR-11		Jan-06	150	4,800	2,300	30	--	12,000	ND<5.0	12	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	3,000	ND<5.0	ND<500	9.9	ND<1500

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

EDUCTOR-11		Apr-06	ND<5.0	ND<5.0	20,000	ND<500	--	8,500	ND<5.0	37	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	1,500	ND<5.0	160	5.7	200
EDUCTOR-11		Oct-06	ND<100	ND<100	25,000	ND<100	--	9,800	ND<100	ND<100	ND<100	--	ND<100	ND<100	--	ND<100	--	2,200	ND<100	290	ND<100	880
EDUCTOR-11		Apr-07	ND<5.0	5.1	29,000	200	--	28,000	ND<5.0	57	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	14	ND<5.0	ND<200	9.2	960
EDUCTOR-11		Oct-07	55	3,500	8,300	120	--	15,000	ND<5.0	30	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	4,200	ND<5.0	ND<500	13	1,300
EDUCTOR-11		Oct-08	ND<2000	100,000	23,000	ND<2000	--	28,000	ND<2000	ND<2000	ND<2000	ND<2000	ND<4000	ND<2000	ND<2000	ND<4000	3100	5200	ND<2000	ND<2000	ND<2000	ND<4000
EDUCTOR-11		Oct-09	ND<200	ND<200	34,000	ND<200	--	9,300	ND<200	ND<200	ND<200	ND<200	ND<400	ND<200	ND<200	ND<400	1,600	840	ND<200	230	ND<200	ND<400
EDUCTOR-11		Oct-10	ND<200	2,100	78,000	ND<200	--	67,000	ND<200	ND<200	ND<200	ND<200	ND<400	ND<200	ND<200	ND<400	1,900	6900	ND<200	ND<200	ND<200	ND<400
EDUCTOR-11		Nov-10	ND<500	670	29,000	ND<500	--	2,700	ND<500	ND<500	ND<500	ND<500	ND<1,000	ND<500	ND<500	ND<1,000	1,300	660	--	--	--	--
EDUCTOR-11		Mar-11	ND<500	1,100	94,000	ND<500	--	5,900	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500
EDUCTOR-11		May-11	ND<500	3,600	100,000	ND<500	--	11,000	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	1,500	ND<500	ND<500	ND<500	ND<500	ND<500
EDUCTOR-11		Oct-11	ND<50	54	8,000	ND<50	--	1,100	ND<50	ND<50	ND<50	ND<50	ND<100	ND<50	ND<50	ND<100	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100
EDUCTOR-11		Apr-12	ND<50	620	93,000	74	--	6,400	ND<50	110	ND<50	ND<50	ND<100	ND<50	ND<50	ND<100	880	190	ND<50	120	ND<50	430
EDUCTOR-11		Oct-12	ND<1,000	1,200	83,000	ND<1,000	--	5,200	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<2,000	ND<1,000	ND<1,000	ND<2,000	2,400	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<2,000
EDUCTOR-11		May-13	ND<1000	1,000	37,000	ND<1,000	--	2,900	ND<1000	ND<1000	ND<1000	--	ND<2000	ND<1000	ND<1000	ND<2000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	ND<2000
EDUCTOR-11		Oct-13	ND<500	ND<500	29,000	ND<500	--	1,800	ND<500	ND<500	ND<500	--	ND<1000	ND<500	ND<500	ND<1000	ND<500	ND<500	--	--	--	--
EDUCTOR-11		Apr-14	ND<500	ND<500	20,000	ND<500	--	1,600	ND<500	ND<500	ND<500	ND<500	ND<1000	ND<500	ND<500	ND<1000	ND<500	ND<500	ND<500	ND<500	ND<500	ND<1000
EDUCTOR-11		Sep-14	ND<500	ND<500	43,000	ND<500	--	2,900	ND<500	ND<500	ND<500	ND<500	ND<1000	ND<500	ND<500	ND<1000	530	ND<500	--	--	--	--
			Per United States Environmental Protection Agency approval, the Eductor was abandoned in November 2014.																			
EDUCTOR-15 (ZA)		Oct-13	ND<1,000	8,800	160,000	ND<1,000		ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<2,000	ND<1,000	ND<1,000	ND<2,000	1,800	ND<1,000	--	--	--	--
EDUCTOR-15		Apr-14	ND<1,000	ND<1,000	50,000	ND<1,000		2,400	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<2,000	ND<1,000	ND<1,000	ND<2,000	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<2000
EDUCTOR-15		Sep-14	ND<1,000	ND<1,000	120,000	ND<1,000		5,700	ND<1,000	ND<1,000	ND<1,000	ND<1,000	ND<2,000	ND<1,000	ND<1,000	ND<2,000	1,400	1,600	--	--	--	--
T-1B (ZB1)		Aug-83	ND<1.0	ND<1.0	--	--	ND<1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND	--	ND<1.0	ND	ND<1.0	--	--	--	--	--
T-1B		Mar-84	--	ND<.5	--	--	--	--	--	--	--	--	ND	--	--	ND	ND	--	--	--	--	--
T-1B		Aug-84	ND	ND	--	--	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
T-1B		Nov-84	ND<0.5	ND<0.5	--	--	--	--	ND<0.5	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-1B		Oct-85	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	--	--	--	--	--
T-1B		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	ND<0.5	--	--	--	--	--
T-1B		Apr-86	ND<0.5	1	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		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	--	--	--	--	--
T-1B		Oct-89	ND<0.5	5	--	--	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--

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

T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-1B		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-1B		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<0.5	ND	ND<1.0	ND	--	--	--	--
T-1B		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-1B		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-1B		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<1.0	ND	ND<1.0	ND<1.0	--	--	--	--
T-1B		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<1.0	ND<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-1B		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<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-1B	Dup	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<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
			Per Water Board approval, well 1B was abandoned in February 2004.																			
T-2B (ZB1)		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	--	--	--	--	--
T-2B		Sep-83	2,000	73,000	--	--	2,000	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--
T-2B		Sep-83	2,000	290,000	--	--	2,000	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--	--	--	--
T-2B		Mar-84	--	130,000	--	--	--	--	--	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-2B		Aug-84	1,500	11,000	--	--	650	ND	ND	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
T-2B		Nov-84	2,300	52,000	--	--	7,200	--	ND<130	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-2B		Oct-85	2,700	7,500	--	--	7,700	ND<50	ND<50	ND<50	ND<50	--	ND	--	840	ND	ND<50	--	--	--	--	--
T-2B		Mar-86	1,300	5,500	--	--	3,300	750	ND<25	ND<25	ND<25	--	ND	--	--	ND	ND<25	--	--	--	--	--
T-2B		Apr-86	580	4,000	--	--	3,600	180	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
T-2B		Jul-86	1,200	3,800	--	--	2,800	1,400	ND<10	ND<10	ND<10	--	ND	--	ND<10	ND	860	--	--	--	--	--
T-2B		Jan-87	800	9,100	--	--	7,000	1,100	ND<25	ND<25	ND<25	--	ND	--	ND<25	ND	710	--	--	--	--	--
T-2B		Jul-87	490	2,100	--	--	5,400	730	ND<50	ND<50	ND<50	--	ND	--	100	ND	ND<50	--	--	--	--	--
T-2B		Oct-87	330	2,000	--	--	3,300	860	59	ND<25	ND<25	--	ND	--	ND<25	ND	71	--	--	--	--	--
T-2B		Jan-88	170	1,400	--	--	12,000	4,200	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
T-2B		May-88	54	630	--	--	5,800	1,000	12	120	ND<5.	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-2B		Aug-88	180	970	--	--	7,300	3,800	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	ND<100	--	--	--	--	--
T-2B		Nov-88	230	970	--	--	8,700	3,300	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	ND<100	--	--	--	--	--
T-2B		Feb-89	ND<500	7,200	--	--	36,000	13,000	ND<500	ND<500	ND<500	--	ND	--	ND<500	ND	ND<500	--	--	--	--	--
T-2B		May-89	ND<200	1,400	--	--	34,000	32,000	ND<200	ND<200	ND<200	--	ND	--	ND<200	ND	ND<200	--	--	--	--	--
T-2B		Aug-89	ND<2,500	ND<2500	--	--	48,000	26,000	ND<2,500	ND<2500	ND<2500	--	ND	--	--	ND	--	--	--	--	--	--
T-2B		Aug-89	ND<500	4,000	--	--	40,000	45,000	ND<500	ND<500	ND<500	--	ND	--	ND<500	ND	ND<500	--	--	--	--	--
T-2B		Oct-89	ND<200	7,500	--	--	34,000	44,000	ND<200	ND<200	ND<200	--	ND	--	ND<200	ND	ND<200	--	--	--	--	--
T-2B		Jan-90	ND<1,000	17,000	--	--	110,000	30,000	ND<1,000	ND<1000	ND<1000	ND	ND	ND	ND<1,000	ND	ND<1,000	ND	--	--	--	--
T-2B		Jan-90	ND<500	1,600	--	--	40,000	24,000	ND<500	ND<500	ND<500	ND	ND	ND	ND<500	ND	ND<500	ND	--	--	--	--
T-2B		Apr-90	130	13,000	--	--	41,000	13,000	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--
T-2B		Apr-90	90	4,200	--	--	11,000	14,000	ND<50	80	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-2B		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	--	--	--	--
T-2B		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	--	--	--	--
T-2B		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	--	--	--	--
T-2B		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	--	--	--	--
T-2B		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	--	--	--	--
T-2B		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	--	--	--	--
T-2B		Apr-91	ND<50	4,200	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	240	ND	ND<50	ND	--	--	--	--
T-2B		Apr-91	4.3	2,300	--	--	32	1.0	0.8	ND<0.5	ND<0.5	ND	ND	ND	180	ND	ND<0.5	ND	--	--	--	--
T-2B		Jul-91	1,000	17,000	--	--	55,120	3,500	ND<50	150	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-2B		Jul-91	240	6,100	--	--	7,200	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	ND<100	ND	ND<50	ND	--	--	--	--
T-2B		Oct-91	700	15,000	--	--	38,000	3,300	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--

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

T-2B		Oct-91	500	10,000	--	--	14,000	1,600	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--
T-2B		Apr-92	1,600	15,000	--	--	16,000	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--
T-2B		Apr-92	1,100	9,300	--	--	9,800	2,400	ND<50	53	ND<50	ND	ND	ND	ND<50	ND	110	ND	--	--	--	--
T-2B		Aug-92	1,200	5,100	--	--	7,336	1,100	6.5	42	1.7	ND	ND	ND	ND<1.0	ND	21	ND	--	--	--	--
T-2B		Oct-92	1,900	7,400	--	--	7,533	1,400	4.8	40	6.8	ND	ND	ND	--	ND	ND<500	ND	--	--	--	--
T-2B		Apr-93	530	3,700	--	--	6,600	2,300	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-2B		Oct-93	300	2,600	--	--	7,322	640	ND<5.0	23	ND<5.0	ND	ND	ND	ND<5.0	ND	42	ND	--	--	--	--
T-2B		Apr-94	330	1,500	--	--	3,134	ND<5	7	32	ND<5.0	ND	ND	ND	1.1	ND	35	ND	--	--	--	--
T-2B		Oct-94	ND<25	590	--	--	150	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-2B		Aug-95	ND<40	770	--	--	2,500	540	ND<40	ND<40	ND<40	ND	ND	ND	ND<40	ND	ND<40	ND	--	--	--	--
T-2B		Oct-95	180	840	--	--	1,400	130	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-2B		Apr-96	300	1,500	--	--	1,313	230	ND<2.5	13	ND<2.5	ND	ND	ND	ND<2.5	ND	4.9	ND	--	--	--	--
T-2B		Oct-96	200	880	3,000	21	--	190	ND<10	19	ND<10	ND	ND	ND	ND<10	ND	15	ND	--	--	--	--
T-2B		Apr-97	170	690	1,400	14	--	230	ND<13	ND<13	ND<13	ND	ND	ND	ND<13	ND	24	ND	--	--	--	--
T-2B	Dup	Oct-97	220	810	2,800	ND<50	--	170	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<100	ND	--	--	--	--
T-2B		Oct-97	220	820	3,000	ND<50	--	200	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<100	ND<50	--	--	--	--
T-2B		Apr-98	100	670	1,700	ND<20	--	300	ND<20	ND<20	ND<20	ND	ND	ND	ND<80	ND	ND<20	ND<20	--	--	--	--
T-2B		Oct-98	81	720	1,000	ND<25	--	110	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND<25	--	--	--	--
T-2B		Oct-99	55	430	800	ND<10	--	35	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-2B		Oct-00	110	520	2,200	ND<50	--	340	ND<50	ND<50	ND<50	--	ND	ND	--	ND	--	1.4	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Nov-00	ND<1.0	11	2,300	15	--	300	ND<1.0	9.5	1.2	--	ND<2.0	ND<2.0	--	ND	--	2.0	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Dec-00	ND<1.0	2.9	53	9.3	--	1,000	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	1.6	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Feb-01	23	31	880	12	--	1,300	ND<1.0	3.5	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	1.6	--	ND<1.0	ND<1.0	8.5
T-2B		Apr-01	1.6	14	440	8.7	--	980	ND<1.0	1.2	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	2.6	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Jun-01	ND<1.0	5.8	1,500	16	--	1,400	2.6	5.5	1.7	--	3.1	ND<2.0	--	ND	--	1.7	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Aug-01	2.5	77	680	12	--	800	ND<1.0	2.5	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	20	--	ND<1.0	ND<1.0	ND<2.0
T-2B	Dup	Oct-18	ND<50	580	140	ND<50	--	700	ND<50	ND<50	ND<50	--	ND<100	ND<100	--	90	--	ND<50	--	120	ND<50	ND<100
T-2B		Oct-01	ND<50	940	250	180	--	540	ND<50	ND<50	ND<50	--	ND<100	ND<100	--	ND<50	--	ND<50	--	90	ND<50	ND<100
T-2B		Jan-02	ND<10	18	67	ND<10	--	210	ND<10	ND<10	ND<10	--	ND<20	ND<20	--	ND	--	78	--	ND<10	11	ND<20
T-2B		Apr-02	2.7	24	210	6.2	--	190	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	5.9	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Jul-02	ND<1.0	ND<1.0	90	ND<1.0	--	150	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	67	--	ND<1.0	ND<1.0	ND<2.0
T-2B		Oct-02	ND<1.0	54	46	ND<1.0	--	170	ND<1.0	2.5	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	66	2.0	ND<1.0	1.8	ND<2.0
T-2B		Jan-03	ND<1.0	33	30	ND<1.0	--	14	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	66	--	--	--	--
T-2B		Apr-03	ND<1.0	28	7.6	ND<1.0	--	41	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	60	--	7.8	ND<1.0	2.1
T-2B		Jul-03	ND<1.0	2.6	2.8	ND<1.0	--	5.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	71	--	90	ND<1.0	4.1
T-2B		Oct-03	ND<5.0	ND<5.0	5.2	ND<5.0	--	9.1	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	88	ND<5.0	ND<5.0	ND<5.0	ND<10
T-2B		Jan-04	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
T-2B		Apr-04	ND<1.0	ND<1.0	3.3	ND<1.0	--	5.4	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
T-2B		Oct-04	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	--	63	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Jan-05	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	--	72	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Apr-05	ND<5.0	ND<5.0	43	ND<5.0	--	360	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	130	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Jul-05	ND<5.0	5.1	ND<5.0	ND<5.0	--	16	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	94	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Oct-05	ND<5.0	ND<5.0	6.2	ND<5.0	--	48	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	73	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Jan-06	ND<5.0	ND<5.0	ND<5.0	7.0	--	22	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	67	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Apr-06	ND<5.0	ND<5.0	5.9	11	--	24	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	49	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Oct-06	ND<5.0	ND<5.0	ND<5.0	8.2	--	47	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	49	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Apr-07	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	92	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	31	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Oct-07	ND<5.0	ND<5.0	11	7.8	--	270	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0	ND<5.0	--	ND<5.0	--	23	ND<5.0	ND<5.0	ND<5.0	ND<15
T-2B		Oct-08	ND<2	ND<2	88	6	--	210	ND<2	ND<2	ND<2	ND<2	ND<4	ND<2	ND<2	ND<4	5.2	4.1	ND<2	ND<2	ND<2	ND<4
T-2B		Oct-09	ND<20	ND<20	6,600	29	--	3,600	ND<20	ND<20	ND<20	ND<20	ND<40	ND<20	ND<20	ND<40	39	230	ND<20	ND<20	ND<20	ND<40
T-2B		Oct-10	ND<2.5	ND<2.5	200	ND<2.5	--	260	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<5.0	6.4	17	ND<2.5	ND<2.5	ND<2.5	ND<5.0

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

T-2B		Nov-10	ND<2.5	2.5	160	ND<2.5	--	290	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<5.0	23	39	--	--	--	--
T-2B		Mar-11	ND<0.50	0.52	9.4	ND<0.50	--	46	ND<0.50	ND<0.50	0.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8.6	57	ND<0.50	ND<0.50	ND<0.50	3.2
T-2B		May-11	ND<0.50	0.59	40	ND<0.50	--	82	ND<0.50	ND<0.50	0.69	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.5	22	ND<0.50	ND<0.50	ND<0.50	ND<0.50
T-2B		Oct-11	ND<0.50	0.72	79	2.1	--	140	ND<0.50	ND<0.50	0.72	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	7.1	19	ND<0.50	ND<0.50	ND<0.50	1.5
T-2B		Apr-12	ND<0.50	ND<0.50	38	1.0	--	34	ND<0.50	ND<0.50	0.53	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	6.5	25	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2B		Oct-12	ND<0.50	0.65	83	2.5	--	100	ND<0.50	ND<0.50	0.77	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	5.7	14	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2B		May-13	ND<0.50	0.76	80	6.3	--	77	ND<0.50	ND<0.50	0.76	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	6.7	11	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2B		Oct-13	ND<0.50	ND<2.5	140	1.6	--	150	ND<0.50	ND<0.50	1.0	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	10	12	--	--	--	--
T-2B		Apr-14	ND<2.5	ND<2.5	12	ND<2.5	--	40	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<5.0	16	58	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-2B		Sep-14	ND<2.5	ND<2.5	26	ND<2.5	--	60	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<5.0	9.3	28	--	--	--	--
			Per United States Environmental Protection Agency approval, well T-2B was abandoned in November 2014.																			
T-4B (ZB1)		Aug-83	ND<1.0	ND<1.0	--	--	10	ND	ND<1.0	3.6	ND<1.0	--	ND	--	ND<1.0		ND	--	--	--	--	--
T-4B		Mar-84	--	4	--	--	--	--	--	--	--	--	ND	--	--		--	--	--	--	--	--
T-4B		Aug-84	ND	ND	--	--	ND	ND	ND	ND	ND	--	ND	--	ND		ND	--	--	--	--	--
T-4B		Nov-84	ND<0.5	1.5	--	--	ND<0.5	--	ND<0.5	--	--	--	ND	--	--		--	--	--	--	--	--
T-4B		Oct-85	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<0.5	--	--	--	--	--
T-4B		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		ND<0.5	--	--	--	--	--
T-4B		Apr-86	ND<0.5	1	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5		ND<0.5	--	--	--	--	--
T-4B		Jan-88	ND<0.5	14	--	--	0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	0.6		ND<0.5	--	--	--	--	--
T-4B		May-88	ND<0.5	9	--	--	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	0.5		ND<0.5	--	--	--	--	--
T-4B		Aug-89	ND<0.5	57	--	--	3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	1.8		ND<0.5	--	--	--	--	--
T-4B		Oct-90	ND<0.5	75	--	--	14	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	1.8	ND	ND<0.5	ND	--	--	--	--
T-4B		Oct-91	ND<0.5	75	--	--	13	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	3.6	ND	ND<0.5	ND	--	--	--	--
T-4B		Oct-92	ND<0.5	61	--	--	4.3	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-4B		Oct-93	ND<0.5	100	--	--	8.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	2.6	ND	ND<0.5	ND	--	--	--	--
T-4B		Oct-94	ND<5.0	53	--	--	23	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-4B		Oct-95	ND<1.0	30	--	--	22	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	2.4	ND	ND<1.0	ND	--	--	--	--
T-4B		Oct-96	ND<0.5	28	17	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	1.7	ND	ND<0.5	ND	--	--	--	--
T-4B		Oct-97	ND<1.0	30	38	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	2.0	ND	ND<2.0	ND	--	--	--	--
T-4B		Oct-98	ND<1.0	43	40	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	1.8	ND	ND<1.0	ND	--	--	--	--
T-4B		Oct-99	ND<1.0	32	32	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	1.6	ND	ND<1.0	ND	--	--	--	--
T-4B		Oct-00	ND<2.0	10	100	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-4B	Dup	Oct-00	ND<2.0	9.0	100	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND<2.0	ND	ND<2.0	ND<2.0	--	--	--	--
T-4B		Oct-01	ND<5.0	ND<5.0	66	12	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<20	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-4B		Oct-02	ND<5.0	5.8	220	ND<5.0	--	5.7	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-4B		Apr-03	ND<1.0	11	350	ND<1.0	--	ND<2.0	ND<1.0	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<2.0
T-4B		Jul-03	ND<1.0	13	ND<20	3.1	--	ND<2.0	ND<1.0	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<2.0
T-4B		Oct-03	ND<5.0	9.8	340	ND<5.0	--	7.4	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	ND<5.0	ND<10
T-4B		Jan-04	ND<12	6.4	350	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	ND<12	ND<12	--	ND<12	--	ND<12	ND<12	ND<12	ND<12	ND<24
T-4B		Apr-04	ND<1.0	13	540	6.3	--	ND<1.0	ND<1.0	ND<1.0	1.6	--	ND<2.0	6.3	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-4B		Jul-04	ND<5.0	8.5	460	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<10
T-4B		Oct-04	ND<5.0	6.6	350	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
T-4B		Jan-05	ND<5.0	9.0	810	20	--	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
T-4B		Apr-05	ND<5.0	110	69	ND<5.0	--	12	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
T-4B		Jul-05	ND<5.0	10	620	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
T-4B		Oct-05	ND<5.0	9.2	550	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
T-4B		Jan-06	ND<5.0	8.4	600	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
T-4B		Apr-06	ND<5.0	7.9	480	12	--	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
T-4B		Oct-06	ND<5.0	ND<5.0	580	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
T-4B		May-07	ND<5.0	7.3	230	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
T-4B		Jul-07	ND<5.0	5.7	430	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

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

T-4B		Oct-07	ND<5.0	7.9	550	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
T-4B		Oct-08	ND<5	5.3	500	ND<5	--	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	ND<5	ND<10	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10
T-4B		Oct-09	ND<0.50	2.5	370	2.2	--	ND<0.50	ND<0.50	1.1	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	1.4	ND<0.50	ND<0.50	ND<1.0
T-4B		Oct-10	ND<0.50	3.7	360	10	--	ND<0.50	ND<0.50	1.2	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
T-4B		Oct-11	ND<5.0	5.6	570	5.1	--	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	ND<5.0	ND<5.0	ND<10
T-4B		Oct-12	ND<5.0	8.4	600	17	--	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	ND<5.0	ND<5.0	ND<10
T-4B		Oct-13	ND<5.0	9.2	830	1.4 J	--	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	--	--	--	--
T-4B		Oct-14	ND<5.0	5.2	500	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	--	--	--	--
T-4B		Jun-15	ND<0.50	5	130	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	--	--	--	--
T-4B		Oct-15	ND<0.50	4	120	0.97	--	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	--	--	--	--
T-4B		May-16	ND<0.50	3.6	480	3.0	--	ND<0.50	ND<0.50	1.0	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-4B		Oct-16	ND<1.0	4	94	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<2.0	ND<1.0	ND<1.0	--	--	--	--
T-4B		Oct-17	ND<0.50	5.2	650	2.7	--	0.62	ND<0.50	2.2	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-4B		Oct-18	ND<10	ND<10	**700**	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--
T-5B (ZB1)		Aug-83	ND<1.0	3,200	--	--	14	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND	--	ND<1.0	ND	ND<1.0	--	--	--	--	--
T-5B		Mar-84	--	16,000	--	--	--	--	--	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-5B		Aug-84	ND	17,000	--	--	ND	ND	ND	ND	ND	--	ND	--	10,000	ND	ND	--	--	--	--	--
T-5B		Nov-84	19	15,000	--	--	ND<20	--	17	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-5B		Oct-85	73	19,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	6,300	ND	ND<50	--	--	--	--	--
T-5B		Jan-86	ND<25	9,100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	--	ND	ND<25	--	--	--	--	--
T-5B		Apr-86	ND<25	8,200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	6,900	ND	ND<25	--	--	--	--	--
T-5B		Jul-86	ND<50	6,700	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	3,300	ND	ND<50	--	--	--	--	--
T-5B		Sep-86	ND<100	20,500	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	3,150	ND	ND<100	--	--	--	--	--
T-5B		Jan-87	33	4,900	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	3,100	ND	ND<10	--	--	--	--	--
T-5B		Apr-87	ND<25	15,000	--	--	ND<25	ND<25	ND<25	480	ND<25	--	ND	--	1,700	ND	ND<25	--	--	--	--	--
T-5B		Jun-87	140	5,500	--	--	25	ND<25	ND<25	ND<25	ND<25	--	ND	--	1,800	ND	ND<25	--	--	--	--	--
T-5B		Oct-87	ND<50	7,800	--	--	ND<50	ND<50	120	ND<50	ND<50	--	ND	--	1,800	ND	ND<50	--	--	--	--	--
T-5B		Jan-88	ND<250	17,000	--	--	ND<250	ND<250	ND<250	ND<250	ND<250	--	ND	--	2,800	ND	ND<250	--	--	--	--	--
T-5B		Jun-88	ND<250	11,000	--	--	ND<250	ND<250	ND<250	ND<250	ND<250	--	ND	--	1,200	ND	ND<250	--	--	--	--	--
T-5B		Jun-88	18	7,400	--	--	13	ND<0.5	7.8	2.5	1.4	--	ND	--	2,500	ND	ND<0.5	--	--	--	--	--
T-5B		Aug-88	ND<100	14,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	2,700	ND	ND<100	--	--	--	--	--
T-5B		Nov-88	ND<5.0	5,500	--	--	18	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-5B		Nov-88	ND<50	8,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	2,000	ND	ND<50	--	--	--	--	--
T-5B		Feb-89	ND<250	8,000	--	--	ND<250	ND<250	ND<250	ND<250	ND<250	--	ND	--	2,000	ND	ND<250	--	--	--	--	--
T-5B		Aug-89	ND<50	10,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	2,100	ND	ND<50	--	--	--	--	--
T-5B		Aug-89	ND<50	9,200	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	2,300	ND	ND<50	--	--	--	--	--
T-5B		Oct-89	33	6,700	--	--	39	ND<2.0	2	ND<2.0	ND<2.0	--	ND	--	2,700	ND	ND<2.0	--	--	--	--	--
T-5B		Jan-90	ND<20	5,500	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	1,300	ND	ND<20	ND	--	--	--	--
T-5B		Apr-90	ND<20	3,000	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	250	ND	ND<20	ND	--	--	--	--
T-5B		Jul-90	ND<20	4,100	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	910	ND	ND<20	ND	--	--	--	--
T-5B		Oct-90	ND<50	6,300	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	270	ND	ND<50	ND	--	--	--	--
T-5B		Jan-91	ND<20	2,500	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	280	ND	ND<20	ND	--	--	--	--
T-5B		Apr-91	ND<20	5,700	--	--	30	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	1,600	ND	ND<20	ND	--	--	--	--
T-5B		Jul-91	ND<50	9,300	--	--	60	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	2,200	ND	ND<50	ND	--	--	--	--
T-5B		Oct-91	ND<100	12,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	1,900	ND	ND<100	ND	--	--	--	--
T-5B		Jan-92	ND<100	16,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	2,800	ND	ND<100	ND	--	--	--	--
T-5B		Apr-92	ND<100	11,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	2,400	ND	ND<100	ND	--	--	--	--
T-5B		Oct-92	ND<1000	3,600	--	--	33	ND<1.0	2.2	ND<0.5	10	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-5B		Oct-92	ND<150	4,000	--	--	ND<150	ND<150	ND<150	ND<150	ND<150	ND	ND	ND	640	ND	ND<150	ND	--	--	--	--
T-5B		Oct-93	ND<5.0	500	--	--	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	54	ND	ND<5.0	ND	--	--	--	--
T-5B		Oct-94	ND<25	420	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	41	ND	ND<25	ND	--	--	--	--

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

T-5B		Oct-95	ND<1.0	110	--	--	1.6	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	4.9	ND	ND<1.0	ND	--	--	--	--
T-5B		Oct-96	ND<1.3	390	8.2	ND<1.3	--	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND	ND	ND	34	ND	ND<1.3	ND	--	--	--	--
T-5B		Oct-97	ND<10	360	ND<10	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<20	ND	--	--	--	--
T-5B		Oct-98	ND<10	300	ND<10	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	15	ND	ND<10	ND	--	--	--	--
T-5B		Oct-99	ND<10	500	16	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	63	ND	ND<10	ND	--	--	--	--
T-5B		Oct-00	ND<200	2,400	ND<200	ND<200	--	ND<200	ND<200	ND<200	ND<200	ND<200	ND	ND	260	ND	ND<200	ND<200	--	--	--	--
T-5B		Oct-01	ND<50	1,700	88	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	ND<200	ND<200	ND<50	ND<50	--	--	--	--
T-5B	Dup	Oct-18	ND<50	1,900	91	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	ND<200	ND<200	ND<50	ND<50	--	--	--	--
T-5B		Oct-02	30	2,200	55	ND<20	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40	ND<40	450	ND<80	ND<20	ND<20	--	--	--	--
T-5B	Dup	Oct-18	ND<20	2,100	52	ND<20	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40	ND<40	410	ND<80	ND<20	ND<20	--	--	--	--
T-5B		Oct-03	ND<10	720	18	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<20	31	ND<40	ND<10	ND<10	--	--	--	--
T-5B	Dup	Oct-18	ND<10	1,200	29	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<20	60	ND<40	ND<10	ND<10	--	--	--	--
T-5B		Oct-04	ND<5.0	720	21	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	49	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-5B	Dup	Oct-18	ND<5.0	760	21	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	63	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-5B		Oct-05	ND<5.0	420	12	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	44	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
T-5B	Dup	Oct-18	ND<5.0	410	12	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	40	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
T-5B		Oct-06	ND<2.0	270	5.9	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	18	ND<4.0	ND<2.0	ND<2.0	--	--	--	--
T-5B	Dup	Oct-18	ND<2.0	270	6.1	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	20	ND<4.0	ND<2.0	ND<2.0	--	--	--	--
T-5B		Oct-07	6.2	2,300	46	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	470	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0
T-5B	Dup	Oct-18	5.9	2,200	45	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	380	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0
T-5B		Oct-08	ND<20	2,300	39	ND<20	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40	ND<20	550	ND<40	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40
T-5B	Dup	Oct-18	ND<20	2,200	39	ND<20	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40	ND<20	540	ND<40	ND<20	ND<20	ND<20	ND<20	ND<20	ND<40
T-5B		Oct-09	1.5	380	14	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-5B	Dup	Oct-18	1.3	390	12	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	45	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-5B		Oct-10	3.3	1,200	51	1.2	--	ND<0.50	ND<0.50	1.2	0.57	ND<0.50	ND<1.0	ND<0.50	89	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-5B	Dup	Oct-18	3.5	1,200	49	1.2	--	ND<0.50	ND<0.50	1.2	0.59	ND<0.50	ND<1.0	ND<0.50	96	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-5B		Oct-11	ND<10	1,700	58	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	200	200	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20
T-5B	Dup	Oct-18	ND<25	1,700	58	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	200	200	ND<25	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50
T-5B		Oct-12	ND<10	1,600	70/71	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	170/180	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20
T-5B		Oct-13	4.5 J	1,500	51	ND<10	--	ND<10	ND<10	ND<10	ND<10		ND<20	ND<10	150	ND<20	ND<10	ND<10	--	--	--	--
T-5B	Dup	Oct-18	4.8 J	1,400	73	1.8 J	--	ND<5.0	ND<5.0	2.3 J	ND<5.0		ND<10	ND<5.0	190	ND<10	ND<5.0	ND<5.0	--	--	--	--
T-5B		Oct-14	ND<10	1,500	58	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	140	ND<20	ND<10	ND<10	--	--	--	--
T-5B	Dup	Oct-18	ND<25	1,600	64	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	160	ND<50	ND<25	ND<25	--	--	--	--
T-5B		Oct-15	3.7	1,700	62	1.1	--	ND<0.50	ND<0.50	1.2	ND<0.50	ND<0.50	ND<1.0	ND<0.50	120	ND<1.0	ND<0.50	1	--	--	--	--
T-5B	Dup	Oct-18	3.9	1,800	62	1.2	--	ND<0.50	ND<0.50	1.3	ND<0.50	ND<0.50	ND<1.0	ND<0.50	130	ND<1.0	ND<0.50	1	--	--	--	--
T-5B		Oct-16	ND<2.5	170	8.8	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	6.1	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-5B	Dup	Oct-18	ND<2.5	130	7.3	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	5.3	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-5B		Oct-17	ND<50	1500	54	ND<50	--	ND<50	ND<50	ND<50	ND<50	--	ND<100	ND<50	170	ND<100	ND<50	ND<50	--	--	--	--
T-5B	Dup	Oct-17	ND<25	1500	54	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	ND<50	ND<25	160	ND<50	ND<25	ND<25	--	--	--	--
T-5B		Oct-18	ND<25	**1,200**	**39**	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	120	ND<50	ND<25	ND<25	--	--	--	--
T-5B	Dup	Oct-18	ND<50	**1,200**	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	ND<50	140	ND<100	ND<50	ND<50	--	--	--	--
T-7B (ZB1)		Aug-84	ND	3,000	--	--	ND	ND	ND	ND	ND	--	ND	--	100	ND	ND	--	--	--	--	--
T-7B		Nov-84	16	4,400	--	--	19	--	6.4	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-7B		Oct-85	60	3,300	--	--	26	ND<25	41	ND<25	ND<25	--	ND	--	420	ND	ND<25	--	--	--	--	--
T-7B		Jan-86	ND<25	3,500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	--	ND	ND<25	--	--	--	--	--
T-7B		Apr-86	ND<25	3,500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	ND<25	ND	ND<25	--	--	--	--	--
T-7B		Jul-86	ND<25	5,300	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	370	ND	ND<25	--	--	--	--	--
T-7B		Sep-86	ND<25	5,100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	660	ND	ND<25	--	--	--	--	--
T-7B		Jan-87	24	3,100	--	--	25	ND<10	ND<10	ND<10	ND<10	--	ND	--	360	ND	ND<10	--	--	--	--	--
T-7B		Apr-87	ND<25	3,800	--	--	31	ND<25	ND<25	ND<25	ND<25	--	ND	--	ND<25	ND	ND<25	--	--	--	--	--
T-7B		Jun-87	ND<25	3,200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	87	ND	ND<25	--	--	--	--	--

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

T-7B		Oct-87	ND<25	2,600	--	--	ND<25	ND<25	31	ND<25	ND<25	--	ND	--	54	ND	ND<25	--	--	--	--	--
T-7B		Jan-88	ND<25	2,100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	280	ND	ND<25	--	--	--	--	--
T-7B		Jun-88	ND<10	1,300	--	--	32	ND<10	ND<10	ND<10	ND<10	--	ND	--	56	ND	ND<10	--	--	--	--	--
T-7B		Aug-88	ND<25	1,800	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	69	ND	ND<25	--	--	--	--	--
T-7B		Nov-88	ND<10	1,300	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	50	ND	ND<10	--	--	--	--	--
T-7B		Feb-89	ND<25	1,600	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	420	ND	ND<25	--	--	--	--	--
T-7B		May-89	6.0	1,400	--	--	60	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	25	ND	ND<5.0	--	--	--	--	--
T-7B		Aug-89	5	980	--	--	93	13	13	ND<2.0	ND<2.0	--	ND	--	40	ND	ND<2.0	--	--	--	--	--
T-7B		Oct-89	ND<10	1,400	--	--	110	ND<10	ND<10	ND<10	ND<10	--	ND	--	20	ND	ND<10	--	--	--	--	--
T-7B		Jan-90	ND<5.0	960	--	--	75	ND<5.0	6.0	ND<5.0	ND<5.0	ND	ND	ND	21	ND	ND<5.0	ND	--	--	--	--
T-7B		Apr-90	ND<5.0	680	--	--	37	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-7B		Jul-90	ND<2.0	430	--	--	20	ND<2.0	2.0	ND<2.0	ND<2.0	ND	ND	ND	17	ND	ND<2.0	ND	--	--	--	--
T-7B		Oct-90	ND<5.0	760	--	--	60	ND<5.0	6.0	ND<5.0	ND<5.0	ND	ND	ND	22	ND	ND<5.0	ND	--	--	--	--
T-7B		Jan-91	ND<5.0	870	--	--	62	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	15	ND	ND<5.0	ND	--	--	--	--
T-7B		Apr-91	ND<2.0	460	--	--	52	ND<2.0	4.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-7B		Jul-91	6.0	980	--	--	300	ND<5.0	11	ND<5.0	ND<5.0	ND	ND	ND	35	ND	ND<5.0	ND	--	--	--	--
T-7B		Oct-91	7.0	960	--	--	270	ND<5.0	14	ND<5.0	ND<5.0	ND	ND	ND	18	ND	ND<5.0	ND	--	--	--	--
T-7B		Jan-92	ND<10	1,800	--	--	390	ND<10	29	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-7B		Apr-92	ND<10	1,800	--	--	140	ND<10	40	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-7B		Oct-92	1.7	630	--	--	41	3.1	5.7	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-7B		Oct-93	ND<5.0	590	--	--	59	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	11	ND	ND<5.0	ND	--	--	--	--
T-7B		Oct-94	ND<5.0	100	--	--	17	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-7B		Oct-95	ND<1.0	42	--	--	6.1	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	2.4	ND	ND<1.0	ND	--	--	--	--
T-7B		Oct-96	ND<0.5	39	5.3	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	1.9	ND	ND<0.5	ND	--	--	--	--
T-7B		Oct-97	ND<0.5	18	2.8	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	1.9	ND	ND<1.0	ND<0.5	--	--	--	--
T-7B		Oct-98	ND<1.0	15	1.3	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	5.1	ND	ND<1.0	ND<1.0	--	--	--	--
T-7B		Oct-99	ND<1.0	4.7	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	--	--	--	--
T-7B		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
T-7B		Oct-00	ND<10	180	24	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-7B		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	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-7B		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
T-7B		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<2.0
T-7B		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<2.0
T-7B		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<2.0
T-7B		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<2.0
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		Jan-02	ND<10	300	29	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	ND<10	ND	ND<10	ND<10	--	--	--	--
T-7B		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	--	--	--	--
T-7B		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	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		Apr-03	ND<1.0	140	18	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	2.9	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-7B		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<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-7B	Dup	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<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-7B		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<2.0	ND<2.0	2.3	ND<4.0	ND<1.0	ND<1.0	--	--	--	--
T-7B	Dup	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<2.0	ND<2.0	2.4	ND<4.0	ND<1.0	ND<1.0	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--

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

T-7B		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<1.0
T-7B	Dup	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<1.0
T-7B		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<4
T-7B	Dup	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<4
T-7B		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<1.0
T-7B	Dup	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<1.0
T-7B		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<2.0	ND<1.0	2.7	ND<2.0	1.8	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-7B	Dup	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<2.0	ND<1.0	2.9	ND<2.0	2.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-7B		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<1.0
T-7B	Dup	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<1.0
T-7B		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<1.0
T-7B		Oct-13	0.86	150	10	0.77	--	0.38 J	0.58	0.73	0.55		ND<1.0	ND<0.50	4.3	ND<1.0	2.2	ND<0.50	--	--	--	--
T-7B	Dup	Oct-18	0.85	150	11	0.76	--	0.39 J	0.59	0.70	0.56		ND<1.0	ND<0.50	4.3	ND<1.0	2.1	ND<0.50	--	--	--	--
T-7B		Oct-14	0.74	170	11	0.78	--	ND<0.50	ND<0.50	0.61	ND<0.50	ND<0.50	ND<1.0	ND<0.50	3.2	ND<1.0	2.1	ND<0.50	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		Oct-17	ND<5.0	190	9.7	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	--	--	--	--
T-7B	Dup	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	--	--	--	--
T-7B		Oct-18	ND<0.50	**54**	2.4	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.0	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-7B	Dup	Oct-18	ND<0.50	**57**	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	0.91	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-8B (ZB1)		Aug-84	260	2,300	--	--	580	ND	ND	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
T-8B		Nov-84	360	2,600	--	--	410	--	6	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-8B		Oct-85	370	1,600	--	--	880	ND<25	63	ND<25	ND<25	--	ND	--	200	ND	ND<25	--	--	--	--	--
T-8B		Oct-85	330	1,600	--	--	890	ND<25	62	ND<25	ND<25	--	ND	--	250	ND	ND<25	--	--	--	--	--
T-8B		Mar-86	810	2,200	--	--	1,400	ND<10	ND<10	ND<10	ND<10	--	ND	--	--	ND	ND<10	--	--	--	--	--
T-8B		Mar-86	750	2,800	--	--	1,700	ND<10	ND<10	ND<10	ND<10	--	ND	--	--	ND	ND<10	--	--	--	--	--
T-8B		Mar-86	1,100	4,300	--	--	3,200	ND<25	ND<25	ND<25	ND<25	--	ND	--	--	ND	ND<25	--	--	--	--	--
T-8B		Apr-86	240	650	--	--	1,300	360	ND<5.0	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-8B		Jul-86	170	ND<5.0	--	--	600	ND<5.0	25	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
T-8B		Jan-87	170	570	--	--	560	170	19	4.8	ND<2.5	--	ND	--	ND<2.5	ND	90	--	--	--	--	--
T-8B		Jul-87	85	720	--	--	990	260	12	ND<10	ND<10	--	ND	--	ND<10	ND	17	--	--	--	--	--
T-8B		Oct-87	63	610	--	--	610	460	33	4.9	ND<5.0	--	ND	--	55	ND	36	--	--	--	--	--
T-8B		Jan-88	79	1,000	--	--	610	690	100	ND<10	ND<10	--	ND	--	59	ND	41	--	--	--	--	--
T-8B		May-88	40	750	--	--	610	770	24	5.2	ND<5.0	--	ND	--	24	ND	41	--	--	--	--	--
T-8B		Aug-88	24	370	--	--	340	1,800	28	ND<10	ND<10	--	ND	--	36	ND	ND<10	--	--	--	--	--
T-8B		Nov-88	25	360	--	--	100	490	15	ND<5.0	ND<5.0	--	ND	--	15	ND	ND<5.0	--	--	--	--	--
T-8B		Feb-89	51	2,500	--	--	270	870	ND<25	ND<25	ND<25	--	ND	--	ND<25	ND	ND<25	--	--	--	--	--
T-8B		May-89	54	1,700	--	--	340	880	ND<10	ND<10	ND<10	--	ND	--	ND<10	ND	ND<10	--	--	--	--	--
T-8B		Apr-90	40	1,600	--	--	1,400	1,700	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-8B		Jul-90	26	810	--	--	600	390	12	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-8B		Oct-90	17	600	--	--	590	350	10	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-8B		Jan-91	26	660	--	--	20	ND<5.0	9.0	5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-8B		Apr-91	20	680	--	--	90	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-8B		Jul-91	18	420	--	--	230	ND<2.0	19	6.0	2.0	ND	ND	ND	5.0	ND	6.0	ND	--	--	--	--

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

T-8B		Oct-91	20	440	--	--	130	ND<2.0	26	6	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-8B		Jan-92	ND<50	6,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	160	ND	ND<50	ND	--	--	--	--
T-8B		Apr-92	14	620	--	--	430	110	38	8.0	ND<5.0	ND	ND	ND	ND<5.0	ND	10	ND	--	--	--	--
T-8B		Oct-92	13	410	--	--	150	62	11	5.3	3.8	ND	ND	ND	--	ND	17	ND	--	--	--	--
T-8B		Apr-93	10	370	--	--	260	240	8.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-8B		Oct-93	10	320	--	--	350	140	5.0	ND<5.0	ND<5.0	ND	ND	ND	6.0	ND	ND<5.0	ND	--	--	--	--
T-8B		Apr-94	13	390	--	--	420	220	9.0	ND<5.0	ND<5.0	ND	ND	ND	3.6	ND	10	ND	--	--	--	--
T-8B		Oct-94	ND<25	270	--	--	320	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-8B		Apr-95	9.9	240	--	--	284	41	4.9	ND<4.0	ND<4.0	ND	ND	ND	ND<4.0	ND	ND<4.0	ND	--	--	--	--
T-8B		Oct-95	8.1	230	--	--	354.7	37	5.5	3.1	ND<2.5	ND	ND	ND	3.3	ND	3.7	ND	--	--	--	--
T-8B		Apr-96	8.2	260	--	--	284.3	ND<2.5	4.8	2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<2.5	ND	--	--	--	--
T-8B		Oct-96	5.4	200	310	5.2	--	44	3.8	2.4	1.6	ND	ND	ND	3.2	ND	5.8	ND	--	--	--	--
T-8B		Apr-97	7.1	220	320	5.4	--	28	4.0	3.0	2.0	ND	ND	ND	4.2	ND	4.8	ND	--	--	--	--
T-8B		Oct-97	ND<10	210	350	ND<10	--	35	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<20	ND<10	--	--	--	--
T-8B		Apr-98	ND<5.0	200	220	ND<5.0	--	42	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<20	ND	ND<5.0	ND<30	--	--	--	--
T-8B		Oct-98	ND<10	180	200	ND<10	--	19	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-8B		Apr-99	ND<10	170	160	ND<10	--	15	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-8B		Oct-99	6.5	190	160	ND<5.0	--	19	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	ND<5.0	ND	5.8	ND<5.0	--	--	--	--
T-8B		Oct-00	ND<10	170	160	ND<10	--	25	ND<10	ND<10	ND<10	--	ND	ND	ND<10	ND	--	ND<10	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Nov-00	3.6	140	240	3.5	--	32	3.8	2.2	1.3	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Dec-00	ND<1.0	41	14	1.7	--	6.8	2	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Feb-01	1.6	65	150	2.4	--	100	1.3	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	1.7	ND<1.0	1.3
T-8B		Apr-01	1.6	68	99	2.7	--	99	1.5	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Jun-01	1.9	110	120	3.3	--	100	2.5	1.4	1.3	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	1.6	ND<2.0
T-8B		Aug-01	2.2	130	140	4.7	--	110	1.7	1.1	1.1	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Oct-01	1.8	120	120	4.5	--	ND<2.0	1.9	1.6	1.2	--	ND<2.0	ND<2.0	--	ND<2.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Jan-02	1.8	98	90	3.8	--	76	1.1	1.3	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	1.6	6.7	7.2
T-8B		Mar-02	2.1	81	78	3.1	--	92	1.2	ND<1.0	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Jul-02	ND<1.0	64	72	ND<1.0	--	180	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<2.0
T-8B		Oct-02	1.6	75	77	ND<1.0	--	96	1.2	1.2	1.2	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	1.1	ND<1.0	ND<1.0	ND<2.0
T-8B		Jan-03	1.7	82	68	2.5	--	80	1.5	1.2	1.4	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	--	--	--
T-8B		Apr-03	ND<1.0	59	59	2.3	--	260	ND<1.0	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<2.0
T-8B		Jul-03	1.1	60	60	3.6	--	120	ND<1.0	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<2.0
T-8B		Oct-03	ND<5.0	98	79	ND<5.0	--	230	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
T-8B		Apr-04	1.7	53	58	3.8	--	99	ND<1.0	ND<1.0	1.5	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-8B		Jul-04	ND<5.0	100	80	ND<5.0	--	150	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
T-8B		Oct-04	ND<2.0	33	72	3.0	--	140	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<8.0	6.8	ND<2.0	--	--	--	--
T-8B		Apr-05	ND<5.0	47	100	ND<5.0	--	310	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
T-8B		Jul-05	ND<5.0	38	150	ND<5.0	--	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<15
T-8B		Oct-05	ND<5.0	7.7	190	6.3	--	160	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
T-8B		Jan-06	ND<5.0	9.0	200	5.6	--	170	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
T-8B		Apr-06	ND<5.0	7.5	300	14	--	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<15
T-8B		Jul-06	ND<5.0	5.8	230	ND<5.0	--	64	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
T-8B		Oct-06	ND<5.0	6.3	220	ND<5.0	--	47	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
T-8B		Jan-07	ND<5.0	20.0	260	ND<5.0	--	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<15
T-8B		Apr-07	ND<5.0	25.0	180	ND<5.0	--	65	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
T-8B		Oct-07	ND<5.0	7.5	220	5.9	--	35	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
T-8B		Oct-08	ND<2	36	150	3.0	--	34	ND<2	ND<2	ND<2	ND<2	ND<4	ND<2	ND<2	ND<4	7.1	ND<2	ND<2	ND<2	ND<2	ND<4
T-8B		Oct-09	0.68	29	39	6.6	--	0.97	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
T-8B		Oct-10	0.59	22	130	3.5	--	18	ND<0.50	0.73	0.74	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-8B		Oct-11	0.92	24	190	4.1	--	21	ND<0.50	1.1	0.85	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<1.0	7.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0

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

T-8B		Oct-12	ND<2.5	25	290	11	--	10	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	ND<5.0	7.6	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-8B		Oct-13	ND<2.5	36	450	8.8	--	17	ND<2.5	3.0	ND<2.5		ND<5.0	ND<2.5	ND<2.5	ND<5.0	10	ND<2.5	--	--	--	--
T-8B		Oct-14	ND<0.50	10	270	7.3	--	16	ND<0.50	1.8	0.90	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	7.5	ND<0.50	--	--	--	--
T-8B		Jun-15	ND<5.0	ND<5.0	150	7.8	--	55	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	--	--	--	--
T-8B		Oct-15	ND<0.50	1.20	29	2.2	--	24	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	ND<0.50	--	--	--	--
T-8B		May-16	ND<0.50	4.4	310	5.8	--	49	ND<0.50	0.86	0.82	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	5.9	ND<0.50	--	--	--	--
T-8B		Oct-16	ND<0.50	0.84	6.2	1.2	--	10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0 *	0.5	ND<0.50	--	--	--	--
T-8B		Oct-17	ND<10	ND<10	420	ND<10	--	27	ND<10	ND<10	ND<10	--	ND<20	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--
T-8B	Dup	Oct-17	ND<10	ND<10	420	ND<10	--	27	ND<10	ND<10	ND<10	--	ND<20	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--
T-8B		Oct-18	ND<10	**18**	**460**	ND<10	--	**20**	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--
T-9B (ZB1)		Aug-84	330	7,900	--	--	ND	ND	ND	ND	ND	--	ND	--	700	ND	ND	--	--	--	--	--
T-9B		Nov-84	15	2,900	--	--	9	--	ND<25	--	--	--	ND	--	--	ND	--	--	--	--	--	--
T-9B		Oct-85	320	29,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	1,200	ND	ND<50	--	--	--	--	--
T-9B		Mar-86	ND<100	9,600	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	--	ND	ND<100	--	--	--	--	--
T-9B		Mar-86	ND<100	16,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	--	ND	ND<100	--	--	--	--	--
T-9B		Mar-86	590	14,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	--	ND	ND<100	--	--	--	--	--
T-9B		Apr-86	98	7,300	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	ND<25	ND	ND<25	--	--	--	--	--
T-9B		Jul-86	ND<50	7,900	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
T-9B		Jan-87	ND<50	17,000	--	--	ND<50	ND<50	160	ND<50	ND<50	--	ND	--	620	ND	ND<50	--	--	--	--	--
T-9B		Jul-87	44	1,300	--	--	1300	220	30	ND<10	ND<10	--	ND	--	36	ND	54	--	--	--	--	--
T-9B		Oct-87	ND<50	6,900	--	--	450	150	ND<50	ND<50	ND<50	--	ND	--	390	ND	ND<50	--	--	--	--	--
T-9B		Nov-87	ND<50	3,900	--	--	340	150	ND<50	ND<50	ND<50	--	ND	--	290	ND	--	--	--	--	--	--
T-9B		Jan-88	50	4,800	--	--	70	ND<10	10	ND<10	ND<10	--	ND	--	180	ND	ND<10	--	--	--	--	--
T-9B		Jan-88	ND<100	12,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	ND<100	ND	ND<100	--	--	--	--	--
T-9B		May-88	360	12,000	--	--	710	120	180	ND<100	ND<100	--	ND	--	1,700	ND	ND<100	--	--	--	--	--
T-9B		Aug-88	ND<50	6,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	ND<50	ND	ND<50	--	--	--	--	--
T-9B		Aug-88	36	5,200	--	--	85	18	13	4.7	1.5	--	ND	--	170	ND	8	--	--	--	--	--
T-9B		Nov-88	50	6,900	--	--	ND<50	ND<50	80	ND<50	ND<50	--	ND	--	310	ND	ND<50	--	--	--	--	--
T-9B		Feb-89	ND<25	6,400	--	--	45	ND<25	ND<25	ND<25	ND<25	--	ND	--	200	ND	ND<25	--	--	--	--	--
T-9B		Jun-89	39	3,500	--	--	130	73	ND<10	ND<10	ND<10	--	ND	--	150	ND	ND<10	--	--	--	--	--
T-9B		Aug-89	61	7,300	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	200	ND	ND<50	--	--	--	--	--
T-9B		Oct-89	38	3,800	--	--	160	20	ND<10	ND<10	ND<10	--	ND	--	50	ND	ND<10	--	--	--	--	--
T-9B		Jan-90	61	6,100	--	--	120	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-9B		Jul-90	30	5,200	--	--	420	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9B		Oct-90	ND<20	3,900	--	--	590	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9B		Jan-91	10	2,200	--	--	580	30	ND<10	10	ND<10	ND	ND	ND	20	ND	ND<10	ND	--	--	--	--
T-9B		Apr-91	ND<20	2,100	--	--	1,200	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9B		Jul-91	ND<20	3,100	--	--	1,100	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9B		Oct-91	ND<20	3,200	--	--	340	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9B		Jan-92	ND<30	4,100	--	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND	ND	ND	ND<30	ND	ND<30	ND	--	--	--	--
T-9B		Apr-92	ND<50	5,600	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-9B		Oct-92	36	5,100	--	--	ND<500	19	3.9	ND<0.5	3.4	ND	ND	ND	--	ND	6.1	ND	--	--	--	--
T-9B		Apr-93	ND<50	3,200	--	--	75	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	69	ND	ND<50	ND	--	--	--	--
T-9B		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	--	--	--	--
T-9B		Apr-94	22	1,300	--	--	110	55	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	28	ND	5.0	ND	--	--	--	--
T-9B		Oct-94	ND<25	1,200	--	--	120	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-9B		Apr-95	ND<20	1,300	--	--	110	ND<40	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-9B		Oct-95	11	1,100	--	--	190	22	ND<10	ND<10	ND<10	ND	ND	ND	12	ND	ND<10	ND	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--

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

T-9B		Oct-97	ND<50	1,600	150	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<100	ND<50	--	--	--	--
T-9B		Apr-98	ND<100	2,200	130	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND<400	ND	ND<100	ND<600	--	--	--	--
T-9B	Dup	Apr-98	ND<100	2,000	ND<100	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND<400	ND	ND<100	ND	--	--	--	--
T-9B		Oct-98	ND<25	1,000	130	ND<25	--	37	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND<25	--	--	--	--
T-9B		Apr-99	ND<100	1,200	170	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND<100	--	--	--	--
T-9B	Dup	Apr-99	ND<100	1,100	160	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	ND<100	ND	ND<100	ND	--	--	--	--
T-9B		Oct-99	ND<25	1,000	170	ND<25	--	46	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND<25	--	--	--	--
T-9B		Oct-00	ND<70	1,000	200	ND<70	--	ND<70	ND<70	ND<70	ND<70	ND<70	ND	ND	ND<70	ND	ND<70	ND<70	--	--	--	--
T-9B		Aug-01	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
T-9B		Oct-01	ND<10	780	150	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20	ND<40	ND<40	ND<10	ND<10	--	--	--	--
T-9B		Jan-02	ND<10	680	270	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND<20	ND<10	ND<10	ND	ND<10	ND<10	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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
T-9B		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<10
T-9B		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<15
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--
T-9B		Oct-07	4.4	470	190	3.2	--	9.8	ND<0.5	2.2	0.83	ND<0.5	ND<1.0	ND<0.5	8.4	ND<1.0	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
T-9B		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
T-9B		Oct-09	ND<10	31	290	ND<10	--	69	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<20
T-9B		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<0.5	ND<0.5	ND<0.5	ND<1.0
T-9B		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
T-9B		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<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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	--	--	--	--
T-9B		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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-9B		May-16	1.5	270	240	3.2	--	2.2	ND<1.0	1.9	ND<1.0	--	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
T-9B		Oct-16 (29 ft)	ND<0.50	4	2.9	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	--	--	--	--
T-9B		Oct-16 (34 ft)	ND<2.5	100	93	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<5.0	ND<2.5	ND<2.5	--	--	--	--
T-9B		Jan-17	1.9	300	280	3.5	--	2.6	ND<0.50	2.3	0.68	--	ND<1.0	ND<0.50	1.0	ND<1.0	0.79	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-9B		Jan-17	1.5	230	330	3.4	--	7.3	ND<0.50	2.3	0.72	--	ND<1.0	ND<0.50	1.6	ND<1.0	0.82	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-9B		Oct-17	1.7	310	260	3.5	--	2.1	ND<1.0	2.3	ND<1.0	--	ND<2.0	ND<1.0	1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
T-9B		Oct-18	ND<0.50	**170**	**220**	2.9	--	**1.4** *	ND<0.50	1.7	0.64	ND<0.50	ND<1.0 *	ND<0.50	ND<0.50	ND<1.0	0.98	ND<0.50	--	--	--	--
T-10B (ZB1)		Oct-00	ND<20	170	110	ND<15	--	ND<15	ND<15	ND<15	ND<15	ND<15	ND<15	ND<20	ND<20	ND<15	ND<15	ND<15	--	--	--	--
T-10B		Jan-01	13	210	130	2.7	--	12	2.9	1.2	ND<1.0	--	ND<2.0	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-10B		Apr-01	9.6	160	100	ND<2.5	--	20	ND<2.5	ND<2.5	ND<2.5	ND	ND<10	ND<2.5	ND<10	ND	9.6	ND<2.5	--	--	--	--
T-10B		Aug-01	7.6	170	110	ND<5.0	--	27	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<5.0
T-10B		Oct-01	8.2	160	75	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<20	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-10B		Jan-02	14	230	130	ND<2.5	--	25	ND<2.5	ND<2.5	ND<2.5	ND	ND<2.5	ND<5.0	ND<2.5	ND	12	ND<2.5	--	--	--	--
T-10B		Apr-02	12	200	110	ND<2.5	--	15	ND<2.5	ND<2.5	ND<2.5	ND	ND<2.5	ND<5.0	ND<2.5	ND	10	ND<2.5	--	--	--	--
T-10B		Jul-02	10	170	97	ND<2.5	--	16	ND<2.5	ND<2.5	ND<2.5	ND	ND<2.5	ND<5.0	ND<2.5	ND	6.9	ND<2.5	--	--	--	--
T-10B		Oct-02	8.9	130	56	2.8	--	11	1.2	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	1.4	ND<4.0	8.4	ND<1.0	--	--	--	--
T-10B		Oct-03	12	140	73	2.1	--	43	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	ND<2.0	ND<8.0	10	ND<2.0	--	--	--	--
T-10B		Oct-04	11	170	57	2.0	--	29	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	1.1	ND<4.0	10	ND<1.0	--	--	--	--
T-10B		Oct-05	9.9	180	79	ND<5.0	--	39	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
T-10B		Jan-06	10	170	190	ND<5.0	--	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<15
T-10B		Apr-06	20	150	190	10.0	--	17	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
T-10B		Jul-06	8.1	150	170	ND<5.0	--	9.3	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

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

T-10B		Oct-06	7.8	120	130	ND<5.0	--	6.2	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
T-10B		Jan-07	12.0	130	140	ND<5.0	--	17.0	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
T-10B		May-07	7.2	80	87	ND<5.0	--	8.9	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
T-10B		Jul-07	5.4	65	61	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
T-10B		Oct-07	6.6	86	62	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
T-10B		Oct-08	2.1	45	48	1.8	--	10	ND<0.5	ND<0.5	0.82	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<1	3.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
T-10B		Oct-09	0.94	20	49	1.4	--	9.8	ND<0.50	ND<0.50	0.55	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.5	ND<0.50	1.5	ND<0.50	ND<0.50	ND<1.0
T-10B		Oct-10	2.0	44	97	2.3	--	23	ND<0.50	0.57	0.77	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.7	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<1
T-10B		Oct-11	3.2	48	110	3.0	--	24	ND<0.50	1.2	1	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	5.2	ND<0.50	ND<0.5	ND<0.5	ND<0.5	1.2
T-10B		Oct-12	2.7	50	140	3.1	--	21	ND<0.50	0.99	0.76	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	5.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-10B		Oct-13	0.59	17	50	0.21 J	--	ND<0.50	ND<0.50	ND<0.50	0.43 J		ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-10B		Oct-14	2.1	45	180	3.3	--	16	ND<0.50	1.1	0.82	ND<0.50	ND<1.0 *	ND<0.50 *	ND<0.50	ND<1.0	4.8	ND<0.50	--	--	--	--
T-10B		Oct-15	0.84	31	97	1.8	--	23	ND<0.50	0.52	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.9	ND<0.50	--	--	--	--
T-10B		May-16	0.81	21	140	13	--	74	ND<0.50	0.56	0.69	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	3.4	ND<0.50	--	--	--	--
T-10B		Oct-16	ND<0.50	ND<0.50	8.6	8.3	--	61	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	0.85	ND<0.50	--	--	--	--
T-10B		Oct-17	1.6	41	150	3.5	--	50	ND<0.50	0.94	0.65	--	ND<1.0	ND<0.50	ND<0.50	ND<1.0	4.2	ND<0.50	--	--	--	--
T-10B		Oct-18	ND<0.50	2.8	**15**	1.2	--	**5.3**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	1.1	ND<0.50	--	--	--	--
T-17B (ZB1)		Jan-06	ND<5.0	400	280	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
T-17B		Apr-06	ND<5.0	340	420	6.8	--	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<15
T-17B		Jul-06	ND<5.0	200	460	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
T-17B		Oct-06	ND<5.0	240	280	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
T-17B		Jan-07	12	660	220	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
T-17B		May-07	ND<5.0	430	140	ND<5.0	--	11	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
T-17B		Jul-07	ND<5.0	450	87	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
T-17B		Oct-07	ND<5.0	610	79	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
T-17B		Oct-08	ND<5	400.0	62	ND<5	--	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	20	ND<10	ND<5	ND<5	ND<5	ND<5	ND<5	ND<10
T-17B		Oct-09	ND<0.50	69.0	190	3.5	--	ND<0.50	ND<0.50	0.69	ND<0.50	ND<0.50	ND<1.0	ND<0.50	2.1	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-17B		Oct-10	ND<5.0	120	320	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<0.50	ND<0.50	ND<0.50	ND<1.0
T-17B		Oct-11	ND<5.0	270	230	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	8.1	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-17B		Apr-12	ND<5.0	110	510	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	8.9	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-17B	Dup	Apr-18	ND<5.0	110	490	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	9.9	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-17B		Oct-12	ND<5.0	310	230	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	14	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-17B		May-13	ND<5.0	120	370	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	ND<5.0	ND<5.0	ND<10
T-17B		Oct-13	ND<5.0	130	390	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	--	--	--	--
T-17B		Apr-14	ND<5.0	55	370	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	ND<5.0	ND<5.0	ND<10
T-17B		Oct-14	ND<5.0	75	400	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	--	--	--	--
T-17B		Jun-15	1.0	230	310	2.7	--	0.50	ND<0.50	1.7	ND<0.50	ND<0.50	ND<1.0	ND<0.50	11	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-17B		Oct-15	0.88	280	290	1.9	--	0.51	ND<0.50	1.1	ND<0.50	ND<0.50	ND<1.0	ND<0.50	9.9	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-17B		May-16	0.63	180	260	1.7	--	ND<0.50	ND<0.50	0.95	ND<0.50	--	ND<1.0	ND<0.50	8.8	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-17B		Oct-16	ND<2.5	190	200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	8.2	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-17B		Oct-17	ND<5.0	210	370	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND<10	ND<5.0	7.1	ND<10	ND<5.0	ND<5.0	--	--	--	--
T-17B		Oct-18	ND<5.0	**170**	**300**	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	7.4	ND<10	ND<5.0	ND<5.0	--	--	--	--
T-18B (ZB1)		May-13	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<1.0
T-18B		Oct-13	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	--	--	--	--
T-18B		Oct-14	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	--	--	--	--
T-18B		Oct-15	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	--	--	--	--
T-18B		Oct-16	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 F1	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-18B		Oct-17	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	--	--	--	--
T-18B		Oct-18	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	--	--	--	--
T-19B (ZB1)		May-13	ND<0.50	53	1.9	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	ND<0.50	1.2	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-19B		Oct-13	ND<0.50	56	1.8	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	ND<0.50	1.4	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-19B		Oct-14	ND<0.50	52	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 *	1.2	ND<1.0	ND<0.50	ND<0.50	--	--	--	--

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

T-19B		Oct-15	ND<0.50	49	1.8	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.0	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-19B		Oct-16	ND<0.50	44	1.5	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	--	--	--	--
T-19B		Oct-17	ND<0.50	62	1.4	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<1.0	ND<0.50	1.1	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-19B		Oct-18	ND<0.50	**57**	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	1.2	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-20B		Oct-17	ND<5.0	230	280	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	--	--	--	--
T-20B		Oct-18	ND<0.50	**230**	**190**	2.1	--	ND<0.50	ND<0.50	1.4	ND<0.50	ND<0.50	ND<1.0	ND<0.50	2.1	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-21B		Oct-17	ND<0.50	250	460	2.0	--	ND<0.50	ND<0.50	1.5	ND<0.50	--	ND<1.0	ND<0.50	16	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-21B		Oct-18	ND<5.0	**430**	**310**	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	15	ND<10	ND<5.0	ND<5.0	--	--	--	--
T-22B		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	3.0	ND<0.50	--	--	--	--
T-22B		Oct-18	1.3	**79**	**120**	3.1	--	**0.69**	ND<0.50	0.95	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	2.1	ND<0.50	--	--	--	--
T-23B		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	2.6	ND<0.50	--	--	--	--
T-23B		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	3.0	ND<0.50	--	--	--	--
T-24B		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	--	--	--	--
T-24B		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<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-2C (ZB2)		Aug-84	10	2300	--	--	12	ND	ND	6	ND	--	ND	ND	1000	ND	ND	--	--	--	--	--
T-2C		Aug-84	7.2	760	--	--	2.5	--	ND<0.1	ND<0.1	--	--	ND	ND	39	ND	--	--	--	--	--	--
T-2C		Nov-84	8.4	4400	--	--	13	--	ND<1.0	--	--	--	ND	ND	--	ND	--	--	--	--	--	--
T-2C		Oct-85	ND<25	4200	--	--	31	ND<25	ND<25	ND<25	ND<25	--	ND	ND	950	ND	ND<25	--	--	--	--	--
T-2C		Mar-86	ND<25	5500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	--	ND	ND<25	--	--	--	--	--
T-2C		Mar-86	49	4200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	--	ND	ND<25	--	--	--	--	--
T-2C		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	--	--	--	--	--
T-2C		Jul-86	ND<10	2000	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	ND	650	ND	ND<10	--	--	--	--	--
T-2C		Jan-87	ND<10	3300	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	ND	170	ND	ND<10	--	--	--	--	--
T-2C		Jul-87	ND<25	4200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	220	ND	ND<25	--	--	--	--	--
T-2C		Oct-87	ND<25	3500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	240	ND	ND<25	--	--	--	--	--
T-2C		Jan-88	ND<100	4400	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	ND	ND<100	ND	ND<100	--	--	--	--	--
T-2C		Jun-88	ND<10	5500	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	ND	330	ND	ND<10	--	--	--	--	--
T-2C		Aug-88	ND<25	3400	--	--	ND<25	ND<25	36	ND<25	ND<25	--	ND	ND	400	ND	ND<25	--	--	--	--	--
T-2C		Nov-88	65	3000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	ND	440	ND	ND<50	--	--	--	--	--
T-2C		Feb-89	ND<25	3100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	220	ND	ND<25	--	--	--	--	--
T-2C		May-89	ND<25	3900	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	270	ND	ND<25	--	--	--	--	--
T-2C		May-89	ND<25	3500	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	ND	230	ND	ND<25	--	--	--	--	--
T-2C		Aug-89	ND<25	4300	--	--	ND<25	ND<25	25	ND<25	ND<25	--	ND	ND	420	ND	ND<25	--	--	--	--	--
T-2C		Oct-89	ND<20	3300	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	--	ND	ND	180	ND	ND<20	--	--	--	--	--
T-2C		Jan-90	ND<20	3600	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	390	ND	ND<20	ND	--	--	--	--
T-2C		Apr-90	ND<20	4900	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	370	ND	ND<20	ND	--	--	--	--
T-2C		Jul-90	ND<20	3300	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	240	ND	ND<20	ND	--	--	--	--
T-2C		Oct-90	ND<20	2100	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	90	ND	ND<20	ND	--	--	--	--
T-2C		Jan-91	ND<20	4000	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	220	ND	ND<20	ND	--	--	--	--
T-2C		Apr-91	ND<20	2400	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	50	ND	ND<20	ND	--	--	--	--
T-2C		Jul-91	ND<20	3900	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	210	ND	ND<20	ND	--	--	--	--
T-2C		Oct-91	ND<20	4700	--	--	120	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	200	ND	ND<20	ND	--	--	--	--
T-2C		Jan-92	ND<30	5200	--	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND	ND	ND	120	ND	ND<30	ND	--	--	--	--
T-2C		Apr-92	ND<20	2800	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	60	ND	ND<20	ND	--	--	--	--
T-2C		Oct-92	3.9	8200	--	--	13.7	ND<1.0	0.8	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-2C		Apr-93	ND<50	3400	--	--	ND<50	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	210	ND	ND<50	ND	--	--	--	--
T-2C		Oct-93	ND<5.0	3000	--	--	10	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	180	ND	ND<5.0	ND	--	--	--	--
T-2C		Apr-94	ND<5.0	7200	--	--	20	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	200	ND	ND<5.0	ND	--	--	--	--
T-2C		Oct-94	ND<50	3600	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	300	ND	ND<50	ND	--	--	--	--
T-2C		Aug-95	ND<40	2000	--	--	ND<40	ND<80	ND<40	ND<40	ND<40	ND	ND	ND	51	ND	ND<40	ND	--	--	--	--
T-2C		Oct-95	ND<25	3100	--	--	ND<25	ND<50	ND<25	ND<25	ND<25	ND	ND	ND	280	ND	ND<25	ND	--	--	--	--

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

T-2C		Oct-96	ND<17	4000	21	ND<17	--	34	ND<17	ND<17	ND<17	ND	ND	ND	260	ND	ND<17	ND	--	--	--	--
T-2C		Apr-97	ND<25	4000	28	ND<25	--	34	ND<25	ND<25	ND<25	ND	ND	ND	420	ND	ND<25	ND	--	--	--	--
T-2C		Oct-97	ND<100	3600	ND<100	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	400	ND	ND<200	ND<100	--	--	--	--
T-2C		Apr-98 **	ND<50	3500	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	320	ND	ND<50	ND<50	--	--	--	--
T-2C		Oct-98	ND<25	1000	130	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	92	ND	ND<25	ND<25	--	--	--	--
T-2C		Apr-99	ND<100	3600	ND<100	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	410	ND	ND<100	ND<100	--	--	--	--
T-2C		Oct-99	ND<100	4600	ND<100	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	510	ND	ND<100	ND<100	--	--	--	--
T-2C	Dup	Oct-99	ND<100	4000	ND<100	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	440	ND	ND<100	ND	--	--	--	--
T-2C		Oct-00	ND<100	2700	110	ND<100	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	380	ND	ND<100	ND<100	--	--	--	--
T-2C		Jan-01	3.3	3400	70	2.5	--	20	ND<1.0	6.6	ND<1.0	--	12	ND<2.0	--	ND	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-2C		Mar-01	ND<25	1800	79	ND<25	--	52	ND<25	ND<25	ND<25	ND	ND<25	ND<25	ND<100	ND	ND<25	ND<25	--	--	--	--
T-2C		Jun-01	ND<25	1300	630	ND<25	--	110	ND<25	ND<25	ND<25	ND	ND<25	ND<25	ND<100	ND	ND<25	ND	--	--	--	--
T-2C		Oct-01	7	1500	220	2.3	--	49	ND<1.0	2	ND<1.0	--	5.1	ND<2.0	--	ND<1.0	--	1.4	--	5.8	ND<1.0	19.9
T-2C		Jan-02	ND<25	1800	110	ND<25	--	45	ND<25	ND<25	ND<25	ND	ND<25	ND<50	ND<25	ND	ND<25	ND<25	--	--	--	--
T-2C		Apr-02	ND<25	1500	74	ND<25	--	32	ND<25	ND<25	ND<25	ND	ND<25	ND<50	ND<25	ND	ND<25	ND<25	--	--	--	--
T-2C		Jul-02	ND<25	1500	47	ND<25	--	42	ND<25	ND<25	ND<25	ND	ND<25	ND<50	ND<25	ND	ND<25	ND<25	--	--	--	--
T-2C		Oct-02	ND<2.5	400	59	ND<2.5	--	2.7	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	11	ND<10	ND<2.5	ND<2.5	--	--	--	--
T-2C		Apr-03	ND<1.0	1300	47	ND<1.0	--	52	1.7	1.9	ND<1.0	--	ND<2.0	ND<2.0	--	ND<1.0	--	ND<1.0	--	ND<1.0	ND<1.0	ND<2.0
T-2C		Oct-03	ND<5.0	340	56	ND<5.0	--	6.7	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
T-2C		Oct-04	ND<2.0	280	37	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	6.3	ND<8.0	ND<2.0	ND<2.0	--	--	--	--
T-2C		Oct-05	ND<2.0	260	38	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	4.8	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
T-2C		Oct-06	ND<2.0	190	28	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	2.8	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
T-2C		Oct-07	2.3	1200	43	ND<2.0	--	6.8	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	36	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0
T-2C		Oct-08	ND<1	130	33	ND<1	--	1.6	ND<1	ND<1	ND<1	ND<1	ND<2	ND<1	2.3	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<2
T-2C		Oct-09	0.65	460	94	2.0	--	33	ND<0.50	1.4	ND<0.50	ND<0.50	ND<1.0	ND<0.50	9.2	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2C		Oct-10	ND<0.50	81	22	0.60	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.56	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2C		Oct-11	ND<0.50	310	88	1.1	--	11	ND<0.50	1.4	ND<0.50	ND<0.50	ND<1.0	ND<0.50	3	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2C		Oct-12	ND<5.0	310	160	ND<0.50	--	19	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
T-2C		Oct-13	ND<0.50	110	44	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	--	--	--	--
T-2C		Apr-14	ND<0.50	150	48	0.80	--	0.59	ND<0.50	0.65	ND<0.50	ND<0.50	ND<1.0	ND<0.50	0.94	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-2C		Sep-14	ND<0.50	280	120	1.6	--	8.5	ND<0.50	0.97	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.3	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-10C (ZB2)		Jul-86	ND<1.0	6,800	--	--	ND<1.0	ND<1.0	44	54	ND<1.0	--	ND	--	1,600	ND	ND<1.0	--	--	--	--	--
T-10C		Jul-86	ND<25	5,400	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	2,700	ND	ND<25	--	--	--	--	--
T-10C		Sep-86	130	3,600	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	1,100	ND	ND<25	--	--	--	--	--
T-10C		Jan-87	ND<50	9,500	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	700	ND	ND<50	--	--	--	--	--
T-10C		Apr-87	ND<10	2,000	--	--	ND<10	ND<10	ND<10	66	ND<10	--	ND	--	360	ND	ND<10	--	--	--	--	--
T-10C		Jun-87	ND<25	4,200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	460	ND	ND<25	--	--	--	--	--
T-10C		Oct-87	ND<50	6,700	--	--	ND<50	ND<50	60	ND<50	ND<50	--	ND	--	1,700	ND	ND<50	--	--	--	--	--
T-10C		Jan-88	ND<100	10,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND	--	3,200	ND	ND<100	--	--	--	--	--
T-10C		May-88	ND<50	7,100	--	--	ND<50	ND<50	100	ND<50	ND<50	--	ND	--	640	ND	ND<50	--	--	--	--	--
T-10C		Aug-88	ND<100	16,000	--	--	ND<100	ND<100	300	ND<100	ND<100	--	ND	--	2,300	ND	ND<100	--	--	--	--	--
T-10C		Nov-88	ND<50	12,000	--	--	ND<50	ND<50	200	50	ND<50	--	ND	--	1,400	ND	ND<50	--	--	--	--	--
T-10C		Feb-89	ND<250	9,300	--	--	ND<250	ND<250	ND<250	ND<250	ND<250	--	ND	--	550	ND	ND<250	--	--	--	--	--
T-10C		May-89	13	14,000	--	--	10.3	ND<0.2	320	80	10	--	ND	--	1,900	ND	ND<0.2	--	--	--	--	--
T-10C		May-89	ND<50	13,000	--	--	ND<50	ND<50	250	ND<50	ND<50	--	ND	--	1,700	ND	ND<50	--	--	--	--	--
T-10C		Aug-89	ND<50	13,000	--	--	ND<50	ND<50	200	ND<50	ND<50	--	ND	--	1,500	ND	ND<50	--	--	--	--	--
T-10C		Oct-89	ND<50	13,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND	--	3,400	ND	ND<50	--	--	--	--	--
T-10C		Jan-90	ND<100	16,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	1,800	ND	ND<100	ND	--	--	--	--
T-10C		Jan-90	ND<100	15,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	1,600	ND	ND<100	ND	--	--	--	--
T-10C		Jan-90	ND<20	15,000	--	--	ND<20	ND<20	ND<90	ND<20	ND<20	ND	ND	ND	1,600	ND	ND<20	ND	--	--	--	--
T-10C		Apr-90	ND<100	11,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	670	ND	ND<100	ND	--	--	--	--

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

T-10C		Apr-90	ND<100	11,000	--	--	ND<100	ND<100	ND<100	ND<100	ND<100	ND	ND	ND	600	ND	ND<100	ND	--	--	--	--
T-10C		Apr-90	ND<25	7,500	--	--	ND<25	ND<50	55	45	ND<25	ND	ND	ND	1,100	ND	ND<25	ND	--	--	--	--
T-10C		Jul-90	ND<20	4,600	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	490	ND	ND<20	ND	--	--	--	--
T-10C		Jul-90	ND<200	6,800	--	--	ND<200	ND<400	ND<200	ND<200	ND<200	ND	ND	ND	860	ND	ND<200	ND	--	--	--	--
T-10C		Oct-90	ND<20	4,200	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	550	ND	ND<20	ND	--	--	--	--
T-10C		Jan-91	ND<20	4,100	--	--	ND<20	ND<20	ND<20	40	ND<20	ND	ND	ND	150	ND	ND<20	ND	--	--	--	--
T-10C		Jan-91	ND<20	4,000	--	--	ND<20	ND<20	ND<20	70	ND<20	ND	ND	ND	160	ND	ND<20	ND	--	--	--	--
T-10C		Jan-91	ND<25	3,000	--	--	ND<25	ND<50	27	41	ND<25	ND	ND	ND	270	ND	ND<25	ND	--	--	--	--
T-10C		Apr-91	ND<50	5,200	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	340	ND	ND<50	ND	--	--	--	--
T-10C		Apr-91	ND<50	3,500	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	210	ND	ND<50	ND	--	--	--	--
T-10C		Apr-91	1	2,200	--	--	5.5	ND<1.0	6.0	16	1.4	ND	ND	ND	170	ND	ND<0.5	ND	--	--	--	--
T-10C		Jul-91	ND<50	7,000	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	220	ND	ND<50	ND	--	--	--	--
T-10C		Jul-91	ND<50	6,800	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	360	ND	ND<50	ND	--	--	--	--
T-10C		Jul-91	ND<50	5,400	--	--	ND<50	ND<100	ND<50	ND<50	ND<50	ND	ND	ND	200	ND	ND<50	ND	--	--	--	--
T-10C		Oct-91	ND<50	5,900	--	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND	ND	ND	ND<50	ND	ND<50	ND	--	--	--	--
T-10C		Oct-91	ND<20	2,700	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	110	ND	ND<20	ND	--	--	--	--
T-10C		Oct-91	ND<10	4,100	--	--	ND<10	ND<20	ND<10	ND<10	ND<10	ND	ND	ND	180	ND	ND<10	ND	--	--	--	--
T-10C		Jan-92	ND<30	2,900	--	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND	ND	ND	90	ND	ND<30	ND	--	--	--	--
T-10C		Apr-92	ND<20	4,400	--	--	ND<20	ND<20	ND<20	ND<20	ND<20	ND	ND	ND	ND<20	ND	ND<20	ND	--	--	--	--
T-10C		Apr-92	3.0	2,300	--	--	6.5	ND<0.5	4.5	79	0.6	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-10C		Oct-92	ND<0.5	250	--	--	0.8	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-10C		Oct-92	ND<0.5	290	--	--	0.9	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-10C		Oct-92	ND<0.5	97	--	--	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	8.3	ND	ND<0.5	ND	--	--	--	--
T-10C		Oct-93	ND<0.5	260	--	--	0.9	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
T-10C		Oct-94	ND<25	200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND	ND	ND	ND<25	ND	ND<25	ND	--	--	--	--
T-10C		Oct-95	ND<1.0	38	--	--	3.2	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
T-10C		Oct-96	ND<0.5	46	1.6	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	--	--	--	--
T-10C		Oct-97	ND<2.5	57	ND<2.5	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<5.0	ND	--	--	--	--
T-10C		Oct-98	ND<5.0	130	12	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	9.7	ND	ND<5.0	ND	--	--	--	--
T-10C		Oct-99	ND<2.0	110	20	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	11	ND	ND<2.0	ND	--	--	--	--
T-10C		Oct-00	ND<40	440	58	ND<40	--	ND<40	ND<40	ND<40	ND<40	ND<40	ND	ND	ND<40	ND	ND<40	ND<40	--	--	--	--
T-10C		Oct-01	ND<50	1,600	180	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	100	780	ND<200	ND<50	ND<50	--	--	--	--
T-10C		Oct-02	ND<2.5	390	18	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<5.0	61	ND<10	ND<2.5	ND<2.5	--	--	--	--
T-10C		Oct-03	ND<5.0	290	9.8	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	40	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-10C		Oct-04	ND<2.0	270	10	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	39	ND<8.0	ND<2.0	ND<2.0	--	--	--	--
T-10C		Oct-05	ND<5.0	710	28	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	110	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
T-10C		Oct-06	ND<2.5	340	14	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	70	ND<2.5	ND<2.5	ND<2.5	--	--	--	--
T-10C		Oct-07	2.5	4,500	100	6.5	--	6.8	ND<2.5	7.1	ND<2.5	ND<2.5	ND<2.5	ND<2.5	570	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-10C		Oct-08	ND<50	1,900	68	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	ND<50	450	ND<100	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100
T-10C		Oct-09	ND<0.50	3.0	350	4.0	--	14	ND<0.50	2.4	ND<0.50	ND<0.50	ND<1.0	ND<0.50	57	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-10C		Oct-10	ND<0.50	790	61	2.2	--	2.5	ND<0.50	2.4	ND<0.50	ND<0.50	ND<1.0	ND<0.50	120	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-10C		Oct-11	ND<5.0	890	88	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	160	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-10C		Oct-12	ND<5.0	1,200	83	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10.0	ND<5.0	160	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10
T-10C		Oct-13	ND<10	1100	58	ND<10	--	ND<10	ND<10	ND<10	ND<10		ND<20	ND<10	170	ND<20	ND<10	ND<10	--	--	--	--
T-10C		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	--	--	--	--
T-10C		Jun-15	ND<0.50	690	1500	14	--	7.2	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	--	--	--	--
T-10C		Oct-15	ND<25	32	1600	ND<25	--	ND<25	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	32	ND<50	ND<25	ND<25	--	--	--	--
T-10C		May-16	ND<10	71	980	ND<10	--	19	ND<10	ND<10	ND<10	--	ND<20	ND<10	95	ND<20	ND<10	ND<10	--	--	--	--
T-10C		Oct-16	ND<10	ND<10	730	ND<10	--	41	ND<10	ND<10	ND<10	ND<10	ND<20	ND<10	90	ND<20	ND<10	ND<10	--	--	--	--
T-10C		Oct-17	ND<25	740	650	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	ND<50	ND<25	140	ND<50	ND<25	ND<25	--	--	--	--
T-10C		Oct-18	ND<25	**260**	**890**	ND<25	--	**38**	ND<25	ND<25	ND<25	ND<25	ND<50	ND<25	140	ND<50	ND<25	ND<25	--	--	--	--

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

T-11C (ZB2)		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	--	--	--	--	--
T-11C		Jul-86	ND<25	4,600	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	2,000	ND	ND<25	--	--	--	--	--
T-11C		Sep-86	62	3,100	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	660	ND	ND<25	--	--	--	--	--
T-11C		Jan-87	ND<10	2,200	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	260	ND	ND<10	--	--	--	--	--
T-11C		Apr-87	11	1,600	--	--	87	ND<10	ND<10	12	ND<10	--	ND	--	210	ND	ND<10	--	--	--	--	--
T-11C		Jun-87	ND<10	2,900	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	230	ND	ND<10	--	--	--	--	--
T-11C		Oct-87	ND<10	1,900	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	140	ND	ND<10	--	--	--	--	--
T-11C		Jan-88	ND<25	2,200	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	430	ND	ND<25	--	--	--	--	--
T-11C		May-88	ND<5.0	1,100	--	--	40	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	120	ND	ND<5.0	--	--	--	--	--
T-11C		Aug-88	ND<25	1,800	--	--	87	ND<25	ND<25	ND<25	ND<25	--	ND	--	230	ND	ND<25	--	--	--	--	--
T-11C		Nov-88	ND<10	740	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND	--	100	ND	ND<10	--	--	--	--	--
T-11C		Feb-89	ND<25	780	--	--	ND<25	ND<25	ND<25	ND<25	ND<25	--	ND	--	42	ND	ND<25	--	--	--	--	--
T-11C		May-89	ND<2.5	560	--	--	23	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND	--	49	ND	ND<2.5	--	--	--	--	--
T-11C		Aug-89	ND<2.0	680	--	--	72	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND	--	47	ND	ND<2.0	--	--	--	--	--
T-11C		Oct-89	ND<1.0	500	--	--	40	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND	--	70	ND	ND<1.0	--	--	--	--	--
T-11C		Jan-90	ND<2.0	410	--	--	5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	15	ND	ND<2.0	ND	--	--	--	--
T-11C		Apr-90	ND<5.0	570	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	13	ND	ND<5.0	ND	--	--	--	--
T-11C		Jul-90	ND<5.0	330	--	--	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	--	--	--	--
T-11C		Oct-90	ND<2.0	330	--	--	16	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	16	ND	ND<2.0	ND	--	--	--	--
T-11C		Jan-91	ND<2.0	290	--	--	4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	10	ND	ND<2.0	ND	--	--	--	--
T-11C		Apr-91	ND<2.0	270	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	18	ND	ND<2.0	ND	--	--	--	--
T-11C		Jul-91	ND<2.0	800	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	42	ND	ND<2.0	ND	--	--	--	--
T-11C		Oct-91	ND<5.0	960	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	28	ND	ND<5.0	ND	--	--	--	--
T-11C		Jan-92	ND<5.0	1,000	--	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	67	ND	ND<5.0	ND	--	--	--	--
T-11C		Apr-92	ND<10	1,500	--	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-11C		Oct-92	ND<0.5	150	--	--	9.3	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-11C		Oct-93	ND<0.5	210	--	--	2.3	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	7.5	ND	ND<0.5	ND	--	--	--	--
T-11C		Oct-94	ND<5.0	110	--	--	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	--	--	--	--
T-11C		Oct-95	ND<1.0	54	--	--	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	2.1	ND	ND<1.0	ND	--	--	--	--
T-11C		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	ND	ND	1.0	ND	ND<0.5	ND	--	--	--	--
T-11C		Oct-97	ND<1.0	36	2.0	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	--	--	--	--
T-11C		Oct-98	ND<10	270	ND<10	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND	ND	ND	ND<10	ND	ND<10	ND	--	--	--	--
T-11C	Dup	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	ND	ND	4.4	ND	ND<2.0	ND	--	--	--	--
T-11C		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	ND	ND	ND<5.0	ND	ND<5.0	ND	--	--	--	--
T-11C		Oct-00	ND<30	320	ND<30	ND<30	--	ND<30	ND<30	ND<30	ND<30	ND<30	ND	ND	ND<30	ND	ND<30	ND<30	--	--	--	--
T-11C		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<10	ND<5.0	10	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
T-11C		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<5.0	ND<5.0	ND<2.5	ND<10	ND<2.5	ND<2.5	--	--	--	--
T-11C		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<1.0	ND<1.0	ND<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-11C		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<2.0	ND<0.5	ND<0.5	--	--	--	--
T-11C		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<1.0	0.8	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
T-11C		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<5.0	13	ND<2.5	ND<2.5	ND<2.5	--	--	--	--
T-11C		Oct-07	ND<2.5	290	20	ND<2.5	--	11	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0	ND<2.5	14	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-11C		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<1	ND<0.5	0.60	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
T-11C		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<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
T-11C		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<1.0
T-11C		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<5.0	ND<2.5	16	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-11C		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<5.0	ND<2.5	17	ND<5.0	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<5.0
T-11C		Oct-13	ND<2.5	460	35	0.68 J	--	4.8	ND<2.5	2.4 J	ND<2.5		ND<5.0	ND<2.5	22	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-11C		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<5.0	ND<2.5	15	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
T-11C		Oct-15	ND<0.50	43	3.3	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.1	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-11C		Oct-16	ND<0.50	3	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	--	--	--	--

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

T-11C		Oct-17	ND<0.50	310 H	26	0.84	--	2.8	ND<0.50	2.2	ND<0.50	--	ND<1.0	ND<0.50	10	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-11C		Oct-18	ND<0.50	**150**	**13**	ND<0.50	--	ND<0.50	ND<0.50	0.61	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-12C (ZB2)		Aug-89	ND<2.0	350	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND	--	17	ND	ND<2.0	--	--	--	--	--
T-12C		Aug-89	ND<10	260	--	--	ND<10	ND<20	ND<10	ND<10	ND<10	--	ND	--	--	ND	--	--	--	--	--	--
T-12C		Oct-89	ND<2.0	410	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND	--	17	ND	ND<2.0	--	--	--	--	--
T-12C		Jan-90	ND<2.0	440	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	21	ND	ND<2.0	ND	--	--	--	--
T-12C		Apr-90	ND<2.0	390	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	9.0	ND	ND<2.0	ND	--	--	--	--
T-12C		Jul-90	ND<2.0	460	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	13	ND	ND<2.0	ND	--	--	--	--
T-12C		Oct-90	ND<2.0	350	--	--	2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	14	ND	ND<2.0	ND	--	--	--	--
T-12C		Jan-91	ND<2.0	290	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	4.0	ND	ND<2.0	ND	--	--	--	--
T-12C		Apr-91	ND<2.0	290	--	--	6.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	7.0	ND	ND<2.0	ND	--	--	--	--
T-12C		Jul-91	ND<1.0	240	--	--	19	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	16	ND	ND<1.0	ND	--	--	--	--
T-12C		Oct-91	ND<1.0	250	--	--	10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	11	ND	ND<1.0	ND	--	--	--	--
T-12C		Jan-92	ND<3.0	410	--	--	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND	ND	ND	10	ND	ND<3.0	ND	--	--	--	--
T-12C		Apr-92	ND<2.0	430	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	ND<2.0	ND	ND<2.0	ND	--	--	--	--
T-12C		Oct-92	ND<0.5	130	--	--	2.0	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
T-12C		Oct-93	ND<5.0	210	--	--	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND	ND	ND	6.0	ND	ND<5.0	ND	--	--	--	--
T-12C		Oct-94	ND<5.0	130	--	--	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	--	--	--	--
T-12C		Oct-95	ND<1.0	100	--	--	110	5.7	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	5.7	ND	ND<1.0	ND	--	--	--	--
T-12C		Oct-96	ND<0.5	120	2.4	ND<0.5	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	2.8	ND	ND<0.5	ND	--	--	--	--
T-12C		Oct-97	ND<2.5	150	ND<2.5	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND	ND	ND	ND<2.5	ND	ND<5.0	ND	--	--	--	--
T-12C		Oct-98	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<5.0	ND	ND<5.0	ND	--	--	--	--
T-12C	Dup	Oct-98	ND<2.0	110	5.6	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	2.2	ND	ND<2.0	ND	--	--	--	--
T-12C		Oct-99	ND<2.0	130	18	ND<2.0	--	2.6	ND<2.0	ND<2.0	ND<2.0	ND	ND	ND	2.7	ND	ND<2.0	ND	--	--	--	--
T-12C		Oct-00	ND<10	160	14	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<10	ND	ND	ND<10	ND	ND<10	ND<10	--	--	--	--
T-12C		Oct-01	ND<5.0	150	14	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<20	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-12C		Oct-02	ND<1.0	180	17	1.4	--	1.9	ND<1.0	1.7	ND<1.0	ND<1.0	ND<2.0	ND<2.0	2.6	ND<4.0	ND<1.0	ND<1.0	--	--	--	--
T-12C		Oct-03	ND<5.0	210	61	ND<5.0	--	6.2	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	7.8	ND<20	ND<5.0	ND<5.0	--	--	--	--
T-12C		Oct-04	ND<2.0	240	50	ND<2.0	--	4.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<4.0	7.6	ND<8.0	ND<2.0	ND<2.0	--	--	--	--
T-12C		Oct-05	ND<2.0	180	39	ND<2.0	--	4.3	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	5.4	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
T-12C		Oct-06	ND<2.0	210	37	ND<2.0	--	3.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	5.7	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
T-12C		Oct-07	ND<2.0	210	19	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	5.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0
T-12C		Oct-08	ND<2	170	65	ND<2	--	4.7	ND<2	ND<2	ND<2	ND<2	ND<4	ND<2	3.7	ND<4	ND<2	ND<2	ND<2	ND<2	ND<2	ND<4
T-12C		Oct-09	ND<0.50	170	53	1.2	--	3.8	ND<0.50	1.7	ND<0.50	ND<0.50	ND<1.0	ND<0.50	3.4	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-12C		Oct-10	ND<0.50	6.3	4.2	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<1.0
T-12C		Oct-11	ND<0.50	7.6	8.7	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<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-12C		Oct-12	ND<0.50	9.3	11	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<1.0
T-12C		Oct-13	ND<0.50	140	85	1.5	--	4.7	ND<0.50	2.3	ND<0.50		ND<1.0	0.23 J	2.7	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-12C		Oct-14	ND<1.0	140	5.1	ND<1.0	--	ND<1.0	ND<1.0	1.2	ND<1.0	ND<1.0	ND<2.0	ND<1.0	1.8	ND<2.0	ND<1.0	ND<1.0	--	--	--	--
T-12C		Oct-15	ND<0.50	2	13	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	--	--	--	--
T-12C		Oct-16	ND<0.50	ND<0.50	4.7	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<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-12C		Oct-17	ND<0.50	140	6.3	0.86	--	ND<0.50	ND<0.50	1.3	ND<0.50	--	ND<1.0	ND<0.50	1.7	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-12C		Oct-18	ND<0.50	**99**	**36**	0.72	--	ND<0.50	ND<0.50	1.1	ND<0.50	ND<0.50	ND<1.0	ND<0.50	1.1	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
36DD (ZB2)		Apr-83	20	18	--	--	2	ND	18	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
36DD		May-83	ND	990	--	--	120	ND	ND	ND	ND	--	ND	--	ND	ND	ND	--	--	--	--	--
36DD		Aug-83	ND<1.0	12	--	--	1.7	ND	ND<1.0	ND<1.0	ND<1.0	--	ND	--	ND<1.0	ND	ND	--	--	--	--	--
36DD		Mar-84	--	11	--	--	--	--	--	--	--	--	ND	--	--	ND	--	--	--	--	--	--
36DD		Nov-84	ND<0.5	5.1	--	--	6.3	--	ND<0.5	--	--	--	ND	--	--	ND	--	--	--	--	--	--
36DD		Oct-85	ND<0.5	8.6	--	--	17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Jan-86	ND<0.5	31	--	--	24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	--	ND	ND<0.5	--	--	--	--	--
36DD		Apr-86	ND<0.5	27	--	--	2.4	ND<0.5	ND<0.5	ND<0.5	1.8	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--

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

36DD		Jul-86	ND<0.5	27	--	--	22	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Sep-86	ND<0.5	20	--	--	23	ND<0.5	ND<0.5	ND<0.5	1.8	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Jan-87	ND<0.5	26	--	--	16	ND<0.5	ND<0.5	ND<0.5	2.3	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Apr-87	ND<0.5	53	--	--	45	ND<0.5	2.8	1.3	2.2	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Jun-87	ND<0.5	32	--	--	38	ND<0.5	ND<0.5	ND<0.5	1.8	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Oct-87	ND<0.5	40	--	--	30	ND<0.5	1.4	0.7	3.0	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Jan-88	ND<0.5	38	--	--	25	ND<0.5	1.0	ND<0.5	3.4	--	ND	--	1.9	ND	ND<0.5	--	--	--	--	--
36DD		May-88	ND<0.5	68	--	--	40	ND<0.5	1.5	1.6	5.0	--	ND	--	2.6	ND	ND<0.5	--	--	--	--	--
36DD		Aug-88	ND<1.0	72	--	--	43	ND<1.0	1.6	1.4	3.7	--	ND	--	4.7	ND	ND<1.0	--	--	--	--	--
36DD		Nov-88	ND<5.0	85	--	--	25	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
36DD		Feb-89	ND<5.0	72	--	--	16	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	ND	--	ND<5.0	ND	ND<5.0	--	--	--	--	--
36DD		May-89	ND<0.5	68	--	--	18	ND<0.5	1.1	1	2	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Aug-89	ND<0.5	70	--	--	21	ND<0.5	ND<0.5	1.5	3.1	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Oct-89	ND<0.5	62	--	--	13	ND<0.5	ND<0.5	0.5	1.5	--	ND	--	ND<0.5	ND	ND<0.5	--	--	--	--	--
36DD		Jan-90	ND<0.5	57	--	--	20	ND<0.5	ND<0.5	ND<0.5	0.7	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Apr-90	ND<0.5	35	--	--	15	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Jul-90	ND<0.5	28	--	--	14	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-90	ND<0.5	1,100	--	--	16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Jan-91	ND<0.5	26	--	--	16	ND<0.5	ND<0.5	ND<0.5	0.6	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Apr-91	ND<0.5	27	--	--	18	ND<0.5	ND<0.5	ND<0.5	0.6	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Jul-91	ND<0.5	29	--	--	22	ND<0.5	ND<0.5	ND<0.5	0.8	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-91	ND<0.5	36	--	--	21	ND<0.5	ND<0.5	ND<0.5	0.8	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Jan-92	ND<0.5	37	--	--	23	ND<0.5	ND<0.5	ND<0.5	0.9	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Apr-92	ND<0.5	45	--	--	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-92	ND<0.5	29	--	--	5.8	ND<1.0	ND<0.5	ND<0.5	0.6	ND	ND	ND	--	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-93	ND<0.5	38	--	--	8.7	ND<1.0	ND<0.5	ND<0.5	0.6	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-94	ND<0.5	58	--	--	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-95	ND<1.0	42	--	--	15.1	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
36DD		Oct-96	ND<0.5	22	29	1.4	--	ND<0.5	ND<0.5	ND<0.5	0.5	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-97+	ND<0.5	13	49	1.1	--	ND<0.5	ND<0.5	0.5	0.7	ND	ND	ND	ND<0.5	ND	ND<0.5	ND	--	--	--	--
36DD		Apr-98+	ND<1.2	11	42	ND<1.2	--	ND<1.2	--	ND<1.2	ND<1.2	ND	ND	ND	ND<5.0	ND	ND<1.2	ND	--	--	--	--
36DD		Oct-99	ND<1.0	10	77	1.2	--	ND<1.0	ND<1.0	ND<1.0	1.0	ND	ND	ND	ND<1.0	ND	ND<1.0	ND	--	--	--	--
36DD		Oct-00+	ND<0.5	6.4	100	1.4	--	ND<1.0	ND<0.5	ND<0.5	1.0	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-01+	ND<0.5	11	110	1.6	--	ND<0.5	ND<0.5	0.8	1.1	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-02+	ND<0.5	8.1	130	2.2	--	1.3	ND<0.5	0.7	1.0	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--
36DD		Oct-03+	ND<0.5	1.2	29	1.9	--	4.6	ND<0.5	ND<0.5	ND<0.5	ND	ND	ND	ND<1.0	ND	ND<0.5	ND	--	--	--	--
36DD		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	--	--	--	--
36DD		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	--	--	--	--
36DD		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<0.5	--	--	--	--
36DD		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<0.5	--	--	--	--
36DD		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	--	--	--	--	--
36DD		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	--	--	--	--	--
36DD		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	--	--	--	--	--
36DD		Oct-11	ND<0.5	2.6	10	1.9	--	5.5	--	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36DD		Oct-12	ND<0.5	3.2	24	1.8	--	3.3	--	ND<0.5	ND<0.5	--	--	--	ND<2.0	--	ND<0.5	--	--	--	--	--
36DD		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	--	--	--	--	--
36DD		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	--	--	--	--	--
36DD		Oct-15	ND<0.5	ND<0.5	5.7	1.1	--	1.7	--	ND<0.50	ND<0.50	--	--	--	ND<0.2	--	ND<0.50	--	--	--	--	--
36DD		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	--	--	--	--	--
T-9C (ZB3)		Jan-85	ND<0.5	ND<0.5	--	--	ND<0.5	--	ND<0.5	--	--	--	--	--	ND<0.5	ND	--	--	--	--	--	--
T-9C		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	--	--	--	--	--

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

T-9C		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	--	--	--	--	--
T-9C		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	--	--	--	--	--
T-9C		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	--	--	--	--	--
T-9C		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	--	--	--	--	--
T-9C		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	--	--	--	--	--
T-9C		Aug-89	ND<1.0	190	--	--	1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	33	ND	ND<1.0	--	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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	--	--	--	--
T-9C	Dup	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	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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<3.0	--	--	--	--
T-9C		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	--	--	--	--
T-9C		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<0.5	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
T-9C		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<2.5	ND<10	ND<2.5	ND<2.5	--	--	--	--
T-9C		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<2.0	ND<0.5	ND<0.5	--	--	--	--
T-9C		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<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
T-9C		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<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
T-9C		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<0.5	1.1	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0
T-9C		Oct-08	ND<0.5	43	17	0.6	--	0.66	ND<0.5	0.82	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1
T-9C		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	0.63	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
T-9C		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<1.0
T-9C		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<1.0
T-9C		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<1.0
T-9C		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<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-9C		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<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-9C		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	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
T-9C		Oct-16	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	--	--	--	--
T-9C		Oct-17	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	--	--	--	--
T-9C		Oct-18	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	--	--	--	--
T-8D (ZB4)		Dec-84	ND<0.5	ND<0.5	--	--	ND<0.5	--	ND<0.5	--	--	--	ND	ND	ND<0.5	ND	--	--	--	--	--	--
T-8D		Oct-85	ND<0.5	1.1	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	55	ND	ND<0.5	--	--	--	--	--
T-8D		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	--	ND	ND<0.5	--	--	--	--	--
T-8D		Apr-86	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		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	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		Sep-86	ND<0.5	2.3	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		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	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		Jan-88	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		May-88	ND<0.5	0.6	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		Aug-88	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		Nov-88	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		Feb-89	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		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	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		Aug-89	ND<1.0	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	--	--	--	--	--

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

T-8D		Oct-89	ND<0.5	ND<0.5	--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND	ND	ND<0.5	ND	ND<0.5	--	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		Apr-93	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	--	--	--	--
T-8D		Oct-93	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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		Apr-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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-8D		Apr-96	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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		Apr-97	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<0.5	ND	ND<0.5	ND	--	--	--	--
T-8D		Oct-97	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<0.5	ND	ND<1.0	ND	--	--	--	--
T-8D		Apr-98	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<2.0	ND	ND<0.5	ND	--	--	--	--
T-8D		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<1.0	ND	ND<1.0	ND	--	--	--	--
T-8D		Apr-99	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<1.0	ND	ND<1.0	ND	--	--	--	--
T-8D		Oct-99	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<1.0	ND	ND<1.0	ND	--	--	--	--
T-8D		Oct-00	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	ND	ND<1.0	ND	ND<1.0	ND<1.0	--	--	--	--
T-8D		Oct-01	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	ND<0.5	ND<1.0	ND<2.0	ND<2.0	ND<0.5	ND<0.5	--	--	--	--
			Per Water Board approval, groundwater sampling of well T-8D was suspended in 2002.																			

Notes:
mum Contaminant Levels (MCLs) as established by the California Department of Health Services, or if no California MCLs have been established, then USEPA MCLs were used.

-- = Data reported as total 1,2-DCE prior to 1996.
^ = Data not previously reported due to low levels.
< = Not detected at the detection limit shown.
+ = Data provided by AMD.
** = Well resampled in July 1998 due to potential labeling error.
B = Compound was found in the blank and sample.
NA = Not Analyzed
ND = Not Detected
NE = Not Established
µg/L = microgram per liter
Water Board = California Regional Water Quality Control Board - San Francisco Bay Region
(1) - Initial results of 268 µg/L for cis-1,2-DCE was higher than standard of 200 µg/L. When rerun with dilution of 50, the result was <250 µg/L. Initial result reported in table.

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
1,2-DCE = 1,2-dichloroethene
BEN = Benzene
BFM = Bromoform
CBN = Chlorobenzene
CDM = Chlorodibromomethane

EBN = Ethylbenzene
Freon 11 = Trichlorofluoromethane
Freon 12 = Dichlorodifluoromethane
Freon 113 = 1,1,2-trichloro-1,2,2-trifluoroethane
PCE = Tetrachloroethene
TCE = Trichloroethene
TOL = Toluene
VC = Vinyl Chloride
XYL = Total Xylenes

Historical Groundwater General Environmental Parameter 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	--	--	--
36D		Apr-03	--	--	--	--	-263	--	--	--
36D		Apr-04	21.0	--	--	--	-299	--	--	--
38-S		Oct-08	21.5	--	--	--	17	--	--	--
38-S		Oct-09	20.25	--	--	--	149	--	--	--
38-S		Oct-10	22.01	6.93	9.507	1.5	44.0	--	--	--
38-S		Oct-11	21.80	6.92	1.366	1.2	140.6	--	--	--
38-S		Apr-12	18.96	6.94	1.26	--	-139	--	--	1.1
38-S		Oct-12	22.57	6.69	1.265	5.30	-19.1	--	--	<1.0
38-S		May-13	22.8	7.01	1.286	32.8	-75	--	--	1.3
38-S		Oct-13	21.4	6.65	1.435	3	5.8	--	--	<1
38-S		Oct-14	21.7	6.98	1.251	5	-40.1	--	--	1.8
38-S		Oct-15	23.2	6.91	1.237	--	39	--	--	0.57 J
38-S		Oct-16	22.3	6.87	1.271	--	-26	--	--	2.3
38-S		Oct-17	23.2	6.98	1333	10.00	105.6	--	--	0.58 J
38-S		Oct-18	21.2	7.08	1.441	--	61.9	--	--	--
T-7A		Oct-99	20.5	--	--	--	202	1.65	500	2.3
T-7A		Jun-01	18.9	--	--	--	197	3.00	410	<5.0
T-7A		Apr-04	18.9	--	--	--	151	--	--	--
T-7A		Jan-07	18.2	6.25	1.67	--	168	--	--	--
T-7A		May-07	21.1	--	--	--	85	--	--	--
T-7A		Oct-07	21.3	7.34	0.162	202	--	--	--	--
T-7A		Oct-08	21.9	--	--	--	237	--	--	--
T-7A		Oct-09	21.40	7.01	1.7	30.8	115	--	--	--
T-7A		Oct-10	20.81	6.88	4.9	0.0	170.0	--	--	--
T-7A		Oct-11	20.54	6.91	1.535	0.0	222.0	--	--	--
T-7A		Oct-12	20.88	7.01	1.472	0.0	69.1	--	--	<1.0
T-7A		Oct-13	22.5	6.6	1.38	1	50.2	--	--	--
T-7A		Oct-14	21.7	7	1.301	1	68.1	--	--	--
T-7A		Jun-15	22.8	6.89	1.372	--	-12.2	--	--	--
T-7A		Oct-15	25.17	6.86	1.418	--	30	--	--	--
T-7A		Oct-16	22.5	6.9	1.347	--	-45.3	--	--	--
T-7A		Oct-17	23.5	6.93	1,416	1	194.6	--	--	--
T-7A		Oct-18	25.2	7.06	1.613	--	31.1	--	--	--
T-7A	Dup	Oct-18	25.2	7.06	1.613	--	31.1	--	--	--
EDUCTOR -11		Nov-99	21.3	7.02	1.46	0	200	0.96	470	<2.0
EDUCTOR-11		Jan-01	24.4	7.01	1.45	4	-73	--	--	--
EDUCTOR-11		Mar-01	18.9	7.06	1.46	20	-300	--	--	--
EDUCTOR-11		Jun-01	19.6	6.93	1.44	0	-162	3.20	590	10
EDUCTOR-11		Aug-01	21.0	4.92	4.17	22	-125	56,000	1,000	5,900
EDUCTOR-11		Oct-01	21.2	4.85	5.22	147	-20	4,000	690	24,000
EDUCTOR-11		Nov-01	19.5	--	--	--	-66	3,000	2,300	8,000
EDUCTOR-11		Jan-02	19.0	--	--	--	-37	2,100	770	21,000
EDUCTOR-11		Mar-02	19.7	--	--	--	-32	480	3,300	5,900
EDUCTOR-11		Jul-02	19.2	--	--	--	-160	2,800	2,900	1,800
EDUCTOR-11		Oct-02	19.6	5.69	5.52	1	4.7	120	6,200	3,700
EDUCTOR-11		Jan-03	18.9	--	--	--	-77	--	2,200	2,800
EDUCTOR-11		Apr-03	18.7	--	--	--	-400	--	2,200	1,700
EDUCTOR-11		Jul-03	19.0	6.32	1.44	11	-87	--	6,200	8,000
EDUCTOR-11		Oct-03	20.1	--	--	--	-236	--	2,100	200
EDUCTOR-11		Jan-04	18.8	--	--	--	-260	--	1,200	16
EDUCTOR-11		Apr-04	19.0	6.45	3.09	33	-247	--	1,600	46
EDUCTOR-11		Oct-04	20.7	--	--	--	-220	--	1,800	25
EDUCTOR-11		Jan-05	19.2	--	--	--	-239	--	--	14
EDUCTOR-11		Apr-05	18.9	--	--	--	-178	--	--	55
EDUCTOR-11		Jul-05	19.9	--	--	--	-115	--	--	61
EDUCTOR-11		Sep-05	20.7	--	--	--	--	--	--	--
EDUCTOR-11		Oct-05	20.5	--	--	--	-211	--	--	26
EDUCTOR-11		Jan-06	19.8	--	--	--	-144	--	--	330
EDUCTOR-11		Apr-06	19.3	--	--	--	-254	--	--	26
EDUCTOR-11		Oct-06	20.5	--	--	--	-162	--	--	15
EDUCTOR-11		Apr-07	19.3	6.43	0.232	51.2	-133	--	--	18
EDUCTOR-11		Oct-07	20.0	--	--	--	-151	--	--	18
EDUCTOR-11		Oct-08	20.5	--	--	--	-220	--	--	--
EDUCTOR-11		Oct-09	20.68	--	--	--	-136	--	--	6.2
EDUCTOR-11		Mar-10[a]	19.79	6.25	2.47	362	-292	--	900	570
EDUCTOR-11		Oct-10[b]	18.94	7.24	2.213	391.4	-124.4	--	--	160.0
EDUCTOR-11		Oct-10[c]	19.81	5.99	4.413	7.1	-82.8	--	960	280.0
EDUCTOR-11		Mar-11	--	--	--	--	--	--	2,700	3,600
EDUCTOR-11		May-11	--	5.57	--	--	-67.0	--	2,200	3,200
EDUCTOR-11		Oct-11	20.40	5.48	3.806	4.0	-81.7	--	1,400	280
EDUCTOR-11		Apr-12	18.45	5.24	3.813	--	-26.6	--	--	2,200
EDUCTOR-11		Oct-12	20.22	5.43	3.668	9.00	-19	--	--	49
EDUCTOR-11		May-13	20.26	5.49	3.478	9.4	-15.9	--	--	1,800
EDUCTOR-11		Oct-13	19.9	4.91	2.306	7	11.3	--	--	1,390
EDUCTOR-11		Apr-14	18.8	5.59	1.616	9	-24	--	--	634
EDUCTOR-11		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
T-2A		Jan-01	19.0	6.11	1.91	25	-324	190	840	410
T-2A		Mar-01	18.3	6.39	2.33	105	-221	580	820	150
T-2A		Jun-01	19.7	6.71	2.21	9	-121	12	1,900	1,600

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

T-2A		Aug-01	21.1	6.24	2.78	1	-127	29	330	410
T-2A		Oct-01	20.9	6.27	2.8	19	-103	15	1,700	460
T-2A		Nov-01	19.8	6.62	2.43	67	-85	11	1,200	1,100
T-2A		Jan-02	--	--	--	--	--	--	--	--
T-2A		Apr-02	19.3	6.53	3.13	48	-150	5.2	2,400	490
T-2A		Jul-02	19.2	6.40	4.227	--	-150	27	2,000	360
T-2A		Oct-02	19.6	6.48	3.79	53	-112	8	2,700	840
T-2A		Jan-03	18.6	6.82	2.68	5	-122	--	1,700	45
T-2A		Apr-03	18.9	6.65	2.39	0	-387	--	1,200	28
T-2A		Jul-03	19.2	7.11	2.51	35	-129	--	1,600	17
T-2A		Oct-03	20.2	6.79	2.53	21	-118	--	1,400	13
T-2A		Jan-04	19.3	6.32	2.33	0	-242	--	1,100	12
T-2A		Apr-04	19.3	6.54	2.37	7	-213	--	1,400	17
T-2A		Oct-04	20.7	6.51	2.82	--	-116	--	1,500	16
T-2A		Jan-05	19.2	6.74	2.58	16	-199	--	--	7.0
T-2A		Apr-05	19.1	6.67	2.2	235	-99	--	--	32
T-2A		Jul-05	20.2	6.41	2.62	--	-139	--	--	24
T-2A		Oct-05	20.7	7.06	2.03	410	-199	--	--	--
T-2A		Jan-06	20.0	6.78	0.257	13	-175	--	--	--
T-2A		Apr-06	19.5	6.86	1.82	580	-101	--	--	--
T-2A		Oct-06	19.6	7.72	2.12	202	-155	--	--	--
T-2A		Apr-07	19.4	6.18	0	131	-60	--	--	--
T-2A		Oct-07	20.7	6.49	2.41	8.6	-144	--	--	--
T-2A		Oct-08	20.7	7.02	0.19	48.6	-58	--	--	--
T-2A		Oct-09	20.64	6.81	2.5	4.3	-76	--	--	3.1 J
T-2A		10/12/2010[c]	20.19	6.66	2.006	0.0	-88.5	--	980	4.8
T-2A		10/20/2010[b]	19.91	6.65	1.655	773.4	-55.7	--	--	340
T-2A		11/15/2010[a]	19.9	6.73	0.82	225	-303	--	790	120
T-2A		Mar-11	--	--	--	--	--	--	860	180
T-2A		May-11	--	--	--	--	--	--	960	28
T-2A		Oct-11	20.16	6.65	2.339	2.2	-145.6	--	1,100	4.8
T-2A		Apr-12	18.66	6.97	1.958	--	-87.9	--	--	7.6
T-2A		Oct-12	20.03	6.73	2.252	2.1	-123.2	--	--	6.5
T-2A		May-13	20.34	7.31	2.283	57.9	-137	--	--	8.1
T-2A	Dup	May-13	20.34	7.31	2.283	57.9	-137	--	--	7.7
T-2A		Oct-13	19.8	6.36	1.877	2	-117.5	--	--	5.9
T-2A		Apr-14	19.2	6.79	2.112	4	-84	--	--	6.4
T-2A		Sep-14	20.44	6.84	2.37	0	-84	--	--	6.5
T-3A		Oct-08	21.5	7.47	0.13	0	214	--	--	--
T-3A		Oct-09	20.10	7.44	1.68	5	1.67	--	--	--
T-3A		Oct-10	20.10	6.90	5.499	0.0	80.2	--	--	--
T-3A		Oct-11	20.39	6.93	1.666	0.2	222.3	--	--	--
T-3A		Oct-12	20.66	6.90	1.445	0.0	122.3	--	--	--
T-3A		Oct-13	20	6.71	1.303	1	134.9	--	--	
T-3A		Apr-14	19.6	6.98	1.376	1	-20	--	--	--
T-3A		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
T-8A		Jan-01	18.8	6.57	1.44	11	-311	--	--	--
T-8A		Mar-01	18.9	7.00	1.44	151	17	--	--	--
T-8A		Jun-01	21.5	6.86	1.49	0	141	3.20	510	<5.0
T-8A		Aug-01	20.1	6.71	1.45	0	140	1.10	560	<5.0
T-8A		Oct-01	21.0	6.35	1.4	10	77	3.90	470	6.4
T-8A		Nov-01	20.0	6.96	1.31	4	-116	220	450	<5.0
T-8A		Jan-02	18.9	6.77	1.35	6	73.5	1.1	510	<5.0
T-8A		Mar-02	19.3	7.01	1.69	9	59	7.9	440	<5.0
T-8A		Jul-02	20.5	6.22	2	--	316	13	450	<5.0
T-8A		Oct-02	20.5	6.93	1.33	11	67	11	480	<5.0
T-8A		Jan-03	18.9	6.89	1.4	0	143	--	--	--
T-8A		Apr-03	18.9	6.86	1.46	0	58	--	--	--
T-8A		Jul-03	20.4	7.18	1.46	0	86	--	--	--
T-8A		Oct-03	20.8	6.92	1.44	5	109	--	--	--
T-8A		Jan-04	19.6	6.50	1.46	0	170	--	420	--
T-8A		Apr-04	19.8	6.75	1.41	0	92	--	480	--
T-8A		Oct-04	21.5	6.28	1.45	0	-138	--	--	--
T-8A		Apr-05	20.0	6.98	1.44	849	77	--	--	--
T-8A		Jul-05	21.4	6.68	1.35	--	79	--	470	6.9
T-8A		Oct-05	22.1	6.55	1.61	0	-100	--	--	<5.0
T-8A		Jan-06	19.2	6.99	0.15	10	-176	--	--	<5.0
T-8A		Apr-06	19.1	6.69	1.37	13	-389	--	--	<5.0
T-8A		Jul-06	22.4	6.59	0.156	12	8	--	--	<5.0
T-8A		Oct-06	22.3	6.52	0.151	10	-101	--	--	<5.0
T-8A		Jan-07	19.4	6.33	1.6	--	21	--	--	<5.0
T-8A		Apr-07	21.3	6.73	1.55	21.9	19	--	--	<5.0
T-8A		Oct-07	22.2	7.03	0.159	8.1	-300	--	--	<5.0
T-8A		Oct-08	21.8	6.98	1.87	--	-240	--	--	--
T-8A		Feb-09	18.5	7.31	1.61	2.3	-69	--	--	--
T-8A		Oct-09	23.1	6.71	1.69	9.8	-69	--	--	<5.0
T-8A		Apr-10	18.98	6.97	1.32	24.5	-33	--	--	<5.0
T-8A		Oct-10	20.40	6.85	1.546	0.0	33.1	--	--	<1.0
T-8A		Oct-11	20.50	6.87	1.538	0.2	192.4	--	--	<1.0
T-8A		Apr-12	19.73	6.86	1.362	--	12.8	--	--	0.66 J
T-8A		Oct-12	21.24	6.89	1.41	0	69	--	--	<1.0
T-8A		May-13	22.48	6.59	1.431	26.8	63	--	--	1.2
T-8A		Oct-13	19.6	6.63	1.313	2	190.6	--	--	<1
T-8A		Apr-14	19	6.9	1.377	5	-28	--	--	1

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

T-8A		Oct-14	22.5	6.9	1.314	1	65.3	--	--	1
T-8A		Jun-15	24.6	6.92	1.378	--	24.5	--	--	0.68 J
T-8A		Oct-15	22.3	6.88	1.33	--	17	--	--	0.53 J
T-8A		May-16	20.2	6.67	1.32	2	38.7	--	--	1.1
T-8A		Oct-16	21.3	6.78	1.24	--	34.3	--	--	0.76 J
T-8A		Oct-17	22.0	6.94	1.404	1	59.6	--	--	0.99 J
T-8A		Oct-18	22.8	7.45	1.288	--	-137.2	--	--	--
T-9A		Jan-04	20.0	6.54	1.4	0	194	--	420	--
T-9A		Apr-04	19.2	6.75	1.65	7	144	--	490	--
T-9A		Oct-04	23.1	6.80	1.49	0	119	--	--	--
T-9A		Jan-05	20.7	6.92	1.36	503	65	--	--	--
T-9A		Apr-05	19.6	6.96	1.28	467	48	--	--	--
T-9A		Jul-05	20.8	6.37	1.34	--	126	--	470	11
T-9A		Oct-05	22.5	6.91	1.46	724	88	--	--	<5.0
T-9A		Jan-06	21.0	6.99	1.28	108	25	--	--	--
T-9A		Apr-06	19.9	6.60	1.39	70.1	-221	--	--	--
T-9A		Jul-06	20.6	6.74	0.145	113	69	--	--	--
T-9A		Oct-06	21.6	6.60	1.5	66	145	--	--	--
T-9A		Jan-07	20.2	6.36	1.57	--	92	--	--	--
T-9A		May-07	20.7	6.82	1.56	-2	6.7	--	--	--
T-9A		Oct-07	22.6	6.59	2.18	13	140	--	--	--
T-9A		Oct-08	22.9	6.7	215	--	-131	--	--	--
T-9A		Oct-09	21.89	6.59	1.66	2	49	--	--	--
T-9A		Oct-10	22.68	6.84	1.547	0.0	35.9	--	--	--
T-9A		Oct-11	21.53	6.81	1.506	0.0	234.0	--	--	--
T-9A		Oct-12	22.03	6.84	1.415	0.0	-77.1	--	--	0.055 J
T-9A		Oct-13	22.1	6.59	1.315	1	96.8	--	--	--
T-9A		Oct-14	23.8	6.92	1.329	1	56.5	--	--	--
T-9A		Oct-15	21.8	6.82	1.32	--	109.1	--	--	--
T-9A		Oct-16	22.6	6.82	1.291	--	-33.3	--	--	--
T-9A		Oct-17	21.8	6.92	1.348	1	173.4	--	--	--
T-9A		Oct-18	22.4	7.09	1.344	--	39	--	--	--
T-13A		Nov-05	21.0	6.43	1.48	0	248	--	510	6.5
T-13A		Jan-06	20.2	6.97	0.158	0	244	--	--	<5.0
T-13A		Apr-06	20.0	6.98	0.721	38	111	--	--	<5.0
T-13A		Jul-06	20.8	6.23	0.154	5	199	--	--	<5.0
T-13A		Oct-06	20.6	5.86	0.17	10	188	--	--	<5.0
T-13A		Jan-07	20.4	6.39	1.72	--	65	--	--	<5.0
T-13A		Apr-07	20.2	6.38	1.69	--	145	--	--	<5.0
T-13A		Jul-07	20.4	6.70	0.134	9.9	236	--	--	<5.0
T-13A		Oct-07	20.5	6.10	2.24	259	-152	--	--	410
T-13A		Oct-08	20.4	7.15	0.32	325	-181	--	--	37
T-13A		Feb-09	19.02	7.09	1.93	65.2	-102	--	--	--
T-13A		Oct-09	20.28	6.53	1.77	1.8	-110	--	--	2.3 J
T-13A		Apr-10	18.57	6.77	1.47	23.4	-108	--	--	0.8 J
T-13A		Oct-10	19.24	6.75	1.538	0.0	-119	--	--	1.0
T-13A		Oct-11	19.60	6.79	1.524	0.0	-23	--	--	1.0
T-13A		Apr-12	18.9	6.41	1.552	--	-113	--	--	14
T-13A		Oct-12	20.4	6.60	1.48	3.4	-105.6	--	--	6.6
T-13A		May-13	20.41	7.02	1.412	55.1	-133	--	--	2.4
T-13A	Dup	May-13	20.41	7.02	1.412	55.1	-133	--	--	3.2
T-13A		Oct-13	20.6	6.85	1.418	52	-79.1	--	--	1.2
T-13A		Apr-14	19.6	6.9	1.309	12	-90	--	--	1.7
T-13A		Oct-14	20.6	6.93	1.332	4	-59.4	--	--	2.1
T-13A		Jun-15	21.8	6.86	1.393	--	-77	--	--	0.94 J
T-13A		Oct-15	21.5	6.86	1.133	--	-55	--	--	0.74 J
T-13A		May-16	20.5	6.87	1.347	6	-12.3	--	--	1.1
T-13A		Oct-16	20.1	6.81	1.271	--	-53.4	--	--	1.1
T-13A		Oct-17	20.3	6.93	1.400	2	153.4	--	--	0.52 J
T-13A		Oct-18	21.2	7.39	1.278	--	-131.8	--	--	--
T-14A		Nov-05	20.6	6.37	1.44	36	242	--	490	5.4
T-14A		Jan-06	19.1	6.92	0.161	0	150	--	--	<5.0
T-14A		Apr-06	20.2	6.91	1.51	44	80	--	--	<5.0
T-14A		Oct-06	20.5	6.71	0.151	10	51	--	--	<5.0
T-14A		Apr-07	24.6	6.45	1.46	--	124	--	--	<5.0
T-14A		Jul-07	21.1	6.87	0.133	9.4	141	--	--	<5.0
T-14A		Oct-07	20.9	6.01	2.03	71.5	-163	--	--	430
T-14A		Oct-08	21.0	6.66	243	--	-466	--	--	22
T-14A		Feb-09	18.82	7.14	1.4	50.2	-89	--	--	--
T-14A		Oct-09	20.65	7.43	1.72	41.8	-154	--	--	8.0
T-14A		Apr-10	18.36	6.80	1.51	252.0	-110	--	--	1.3 J
T-14A		Oct-10	19.99	6.87	4.45	4.7	-170	--	--	1.2
T-14A		Oct-11	20.03	6.77	1.455	0.9	91	--	--	1.2
T-14A		Apr-12	17.8	6.71	1.413	--	-117	--	--	6.6
T-14A		Oct-12	20.51	6.63	1.363	3.9	-79.8	--	--	--
T-14A		May-13	20.1	7.21	1.393	31.2	-151	--	--	1.6
T-14A		Oct-13	18.2	6.67	1.232	4	-109.9	--	--	<1
T-14A		Apr-14	18.5	6.9	1.338	7	-92.5	--	--	1.2
T-14A		Oct-14	19.5	6.91	1.256	2	-68.6	--	--	1.2
T-14A		Oct-15	22.0	6.84	1.278	--	-56	--	--	0.68 J
T-14A		Oct-16	20	6.79	1.231	--	-84.5	--	--	1
T-14A		Oct-17	20.1	6.89	1.333	3	172.4	--	--	0.48 J
T-14A		Oct-18	20.9	7.33	1.319	--	-213.6	--	--	--
T-15A		Nov-05	21.5	6.44	1.46	90	-125	--	580	<5.0
T-15A		Jan-06	20.3	7.00	0.164	54	-188	--	--	<5.0
T-15A		Apr-06	20.3	7.02	0.901	466	-104	--	--	<5.0

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

T-15A		Jul-06	22.3	6.64	0.147	215	-23	--	--	<5.0
T-15A		Oct-06	21.4	6.77	0.147	10	-15	--	--	<5.0
T-15A		Jan-07	20.1	6.37	1.64	--	69	--	--	<5.0
T-15A		May-07	19.9	6.89	0.121	504	60	--	--	<5.0
T-15A		Jul-07	22.2	7.16	0.13	27.4	135	--	--	<5.0
T-15A		Oct-07	22.3	6.62	2.03	205	15	--	--	<5.0
T-15A		Oct-08	22.6	7.22	0.18	24.9	64	--	--	<5.0
T-15A		Oct-09	21.27	6.64	1.61	27.9	34	--	--	<5.0
T-15A		Oct-10	21.27	6.84	1.489	0.0	63	--	--	--
T-15A		Apr-12	19.8	6.81	1.337	--	94	--	--	0.98 J
T-15A		Oct-12	22.0	6.47	1.366	0	6.47	--	--	1.6
T-15A		May-13	22.05	6.47	1.444	101	114	--	--	1.3
T-15A		Oct-13	21.4	6.55	1.282	4	170.9	--	--	--
T-15A		Apr-14	20.5	6.88	1.358	2	-33	--	--	<1
T-15A		Oct-14	21.2	6.91	1.277	1	93.6	--	--	--
T-15A		Oct-15	22.8	6.83	1.319	--	27	--	--	--
T-15A		Oct-16	26.1	6.85	1.303	--	-51.4	--	--	--
T-15A		Oct-17	22.2	6.88	1.329	3	154.6	--	--	--
T-15A		Oct-18	20.5	7	1.339	--	47.9	--	--	--
T-16A		Nov-05	22.0	6.41	1.48	15	-101	--	590	7.6
T-16A		Jan-06	20.7	6.96	1.42	224	-107	--	--	<5.0
T-16A		Apr-06	20.3	7.03	1.43	582	-105	--	--	<5.0
T-16A		Oct-06	22.3	6.87	0.15	526	-57	--	--	<5.0
T-16A		May-07	20.5	6.86	0.99	78	51	--	--	<5.0
T-16A		Oct-07	21.8	7.06	0.15	567	-34	--	--	<5.0
T-16A		Oct-08	24.0	6.73	212	--	-135	--	--	<5.0
T-16A		Oct-09	22.7	6.24	1.72	6	15	--	--	<5.0
T-16A		Oct-10	21.26	6.82	2.996	3.1	139.7	--	--	--
T-16A		Oct-11	21.35	6.80	1.479	-0.7	274.7	--	--	--
T-16A		Oct-12	22.02	6.71	1.384	0.1	115.5	--	--	--
T-16A		Oct-13	21	6.58	1.275	26	149.2	--	--	--
T-16A		Oct-14	22.4	6.92	1.293	6	79.8	--	--	--
T-16A		Oct-15	21.9	6.84	1.286	--	-45	--	--	--
T-16A		Oct-16	20.4	6.63	1.221	--	54.4	--	--	--
T-16A		Oct-17	24.5	6.89	1.346	7	175.6	--	--	--
T-16A		Oct-18	25.2	7.31	1.343	--	-132.6	--	--	--
T-17A		Nov-11	18.80	7.7	--	--	-25	--	--	0.71 J
T-17A		Nov-11	18.2	7.3	--	--	-58	--	--	3
T-17A		Apr-12	18.2	6.91	1.195	--	61.2	--	--	0.63 J
T-17A		Oct-12	21.1	6.87	1.313	4.9	147.6	--	--	<1.0
T-17A		May-13	20.79	6.46	1.308	38.1	170	--	--	1.1
T-17A		Oct-13	20.4	6.79	1.231	2	-30.5	--	--	<1
T-17A		Apr-14	19.6	7.02	1.258	6	-42	--	--	<1
T-17A		Oct-14	21.1	7.23	1.286	4	-47.1	--	--	1.1
T-17A		Jun-15	21.3	7.12	1.350	--	-39	--	--	0.62 J
T-17A		Oct-15	25.3	6.88	1.234	--	6	--	--	0.52 J
T-17A		May-16	20.1	6.82	1.265	4	-8.1	--	--	0.87 J
T-17A		Oct-16	21.6	7.02	1.281	--	-60.5	--	--	0.77 J
T-17A		Oct-17	20.2	6.98	1.315	4	144.6	--	--	0.53 J
T-17A		Oct-18	24.7	7.36	1.106	--	-103.8	--	--	--
T-19A		Sep-07	20.9	7.04	1.56	146	36	--	--	<5.0
T-19A		Oct-07	22.0	5.47	6.13	404	-136	--	--	3,500
T-19A		Oct-08	22.4	6.49	498	--	-344	--	--	24
T-19A		Feb-09	15.76	7.00	1.46	0.0	-94	--	--	--
T-19A		Oct-09	22.67	6.84	1.8	2	-120	--	--	5.1
T-19A		Apr-10	14.80	6.90	0.714	7.2	-137	--	--	7.6
T-19A		Oct-10	19.98	6.81	4.452	0.0	-120	--	--	5.5
T-19A		Oct-11	21.15	6.88	1.326	0.6	-133	--	--	5.5
T-19A		Apr-12	16.83	6.56	2.056	--	-141	--	--	16
T-19A		Oct-12	21.14	6.59	2.042	11	-136.4	--	--	12
T-19A		May-13	19.07	7.09	1.519	30.1	-159	--	--	5.4
T-19A		Oct-13	21.7	6.67	1.542	11	-105.2	--	--	4.4
T-19A		Apr-14	16	6.86	1.024	7	-96	--	--	3.6
T-19A		Oct-14	21.6	6.82	1.346	4	-119.1	--	--	3.2
T-19A		Jun-15	21.20	6.9	1.317	--	-92	--	--	1.8
T-19A		Oct-15	22.60	6.9	1.323	--	-112	--	--	1.6
T-19A		May-16	20.90	7.0	1.231	33.0	-97	--	--	2
T-19A		Oct-16	22.60	6.9	1.29	--	-80.4	--	--	1.5
T-19A		Oct-17	22.7	6.97	1.353	2.0	-31.0	--	--	1.3
T-19A		Oct-18	23.5	7.11	1.317	--	-128.1	--	--	--
T-23A		Sep-07	20.6	7.12	1.46	163	105	--	--	<5.0
T-23A		Oct-07	20.3	6.65	0.19	593	-230	--	--	190
T-23A		Oct-08	20.1	6.73	0.423	--	-444	--	--	19
T-23A		Feb-09	18.8	7.13	1.73	32.5	-89	--	--	--
T-23A		Oct-09	20.02	7.60	1.79	6.1	-141	--	--	15
T-23A		Apr-10	17.15	6.70	1.51	34.5	-144	--	--	1.3 J
T-23A		Oct-10	19.12	6.79	1.57	0.0	-82	--	--	1.1
T-23A		Oct-11	19.76	6.85	1.61	0.5	-16	--	--	1.1
T-23A		Apr-12	18.0	6.49	1.71	--	-123	--	--	34
T-23A		Oct-12	19.8	6.61	1.49	18.9	-91.9	--	--	6.8
T-23A		May-13	20.28	7.06	1.484	51.5	-147	--	--	3.3
T-23A		Oct-13	20.5	6.69	1.523	847	-108	--	--	3.6
T-23A		Apr-14	18.1	6.89	1.39	11	-123	--	--	1.7
T-23A		Oct-14	20.4	6.94	1.35	9	-99	--	--	3.5
T-23A		Jun-15	20.4	6.96	1.409	--	-64	--	--	0.89 J
T-23A		Oct-15	21.9	6.90	1.354	--	-84	--	--	0.85 J

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

T-23A		May-16	20.3	6.84	1.306	7	-36.7	--	--	1.1
T-23A		Oct-16	18.8	6.86	1.222	--	-34	--	--	1.2
T-23A		Oct-17	20.3	6.93	1.413	2	115.9	--	--	0.53 J
T-23A		Oct-18	20.2	7.26	1.406	--	-109.8	--	--	--
T-25A		Sep-07	21.7	7.03	1.59	144	0.71	--	--	<5.0
T-25A		Oct-07	21.4	6.89	0.14	398	-155	--	--	24
T-25A		Oct-08	22.0	7.18	0.19	17.2	-129	--	--	<5.0
T-25A		Feb-09	18.35	7.20	1.57	16.1	-86	--	--	--
T-25A		Oct-09	21.61	6.69	1.63	3.4	-101	--	--	<5.0
T-25A		Apr-10	18.11	6.80	1.57	107.0	-87	--	--	0.8 J
T-25A		Oct-10	20.06	6.87	6.54	12.1	-24.6	--	--	<1.0
T-25A		Oct-11	20.33	6.74	1.46	1.4	299.5	--	--	<1.0
T-25A		Apr-12	19.1	6.76	1.31	--	-138.2	--	--	1.5
T-25A		Oct-12	20.86	6.54	1.37	1.1	-81.2	--	--	1.5
T-25A		May-13	21.76	7.29	1.41	150	-101	--	--	1.4
T-25A		Oct-13	19.3	6.57	1.252	3	-90.2	--		<1
T-25A		Apr-14	19.2	6.91	1.341	13	-97	--	--	1
T-25A		Oct-14	20.9	6.95	1.266	2	-67.2	--	--	1.2
T-25A		Jun-15	20.7	6.82	1.350	--	-20	--	--	0.70 J
T-25A		Oct-15	22.1	6.84	1.272	--	-35	--	--	0.54 J
T-25A		May-16	20.7	6.79	1.355	30	39.7	--	--	0.85 J
T-25A		Oct-16	21.4	6.83	1.240	--	-42	--	--	0.75 J
T-25A		Oct-17	21.7	6.89	1.330	5	173.8	--	--	0.46 J
T-25A		Oct-18	23.5	7.31	1.351	--	-125.4	--	--	--
Zone B1 Aquifer Wells										
T-7B		Oct-99	19.3	8.74	0.41	0	75	1.19	330	2.1
T-7B		Sep-00	19.9	6.60	1.16	2	-230	--	350	2.3
T-7B		Nov-00	17.4	6.31	0.33	1	158	2.6	88	43
T-7B		Dec-00	18.4	7.82	0.37	5	-215	10	130	11
T-7B		Feb-01	18.9	7.64	0.91	--	-163	0.96	160	18
T-7B		Apr-01	19.4	6.92	1.19	30	-125	2.7	360	<2.0
T-7B		Jun-01	19.2	7.33	1.27	0	147	3.3	380	5.3
T-7B		Aug-01	19.1	6.88	1.17	0	9	2.2	360	5.6
T-7B		Oct-08	19.7	7.67	0.111	6.7	--	--	--	--
T-7B		Oct-09	20.06	6.92	1.12	46.8	101	--	--	--
T-7B		Oct-10	21.21	7.10	1.11	0.0	77.8	--	--	--
T-7B		Oct-11	21.03	7.15	1.08	9.6	66.7	--	--	--
T-7B		Oct-12	20.79	7.02	1.09	1.1	131.1	--	--	<1.0
T-7B		Oct-13	20.4	6.83	1.024	3	111.4	--	--	--
T-7B		Oct-14	20.7	7.19	1.017	1	83	--	--	--
T-7B		Jun-15	22.2	7.26	0.995	--	14	--	--	--
T-7B		Oct-15	27.7	7.55	0.958	--	162	--	--	--
T-7B		May-16	19.2	7.32	1.048	2	73	--	--	--
T-7B		Oct-16	21.5	7.81	0.851	--	6.9	--	--	--
T-7B		Oct-17	20.0	7.17	1024	1	232.4	--	--	--
T-7B		Oct-18	23.5	7.79	0.94	--	94.9	--	--	--
T-7B	Dup	Oct-18	23.5	7.79	0.94	--	94.9	--	--	--
T-2B		Nov-99	21.3	7.01	1.43	0	-6	1.65	470	4.10
T-2B		Oct-00	21	6.92	1.41	11	-18	110	480	<2.0
T-2B		Nov-00	20.6	6.57	1.57	20	-341	240	680	220
T-2B		Dec-00	19.7	6.52	2.11	75	-239	41	1,000	390
T-2B		Feb-01	20.4	6.85	1.50	--	-192	6	120	180
T-2B		Apr-01	19.6	6.66	1.55	46	-159	7.1	670	95
T-2B		Jun-01	19.6	6.95	1.47	0	-150	5.6	690	11
T-2B		Aug-01	21.0	6.07	3.41	0	-101	79	2,100	1,300
T-2B		Oct-01	20.2	6.12	3.86	16	-110	36	2,400	1,600
T-2B		Jan-02	19.3	6.45	3.52	56	-104	8.3	1,700	840
T-2B		Apr-02	18.4	6.38	3.69	40	-120	1.9	2,000	960
T-2B		Jul-02	19.6	6.55	2.79	--	-168	28	1,600	300
T-2B		Oct-02	19.8	6.79	2.98	286	-140	5.3	2,100	140
T-2B		Jan-03	18.5	6.89	2.83	3	-144	--	1,700	13
T-2B		Apr-03	19.1	6.73	2.61	10	-148	--	1,400	5.6
T-2B		Jul-03	19.4	7.05	2.60	32	-144	--	1,600	8.2
T-2B		Oct-03	20.0	6.76	2.60	20	-149	--	1,300	5.7
T-2B		Jan-04	19.3	6.47	2.54	0	-195	--	1,200	6.0
T-2B		Apr-04	19.3	6.62	2.31	3	-191	--	1,200	11
T-2B		Oct-04	20.7	6.54	2.34	0	-175	--	1,200	6.0
T-2B		Jan-05	19.4	6.76	2.02	3	-163	--	--	<1.0
T-2B		Apr-05	19.7	6.77	1.96	20	-146	--	--	28
T-2B		Jul-05	20.1	6.54	1.83	--	-152	--	--	20
T-2B		Oct-05	20.1	7.19	1.68	11	-90	--	--	<5.0
T-2B		Jan-06	19.6	6.84	0.19	92	-170	--	--	--
T-2B		Apr-06	20.0	6.99	1.56	58	-127	--	--	--
T-2B		Oct-06	19.0	7.78	1.58	331	-160	--	--	--
T-2B		Apr-07	19.7	6.84	0.13	5.9	-117	--	--	--
T-2B		Oct-07	20.0	7.11	0.146	144	-146	--	--	--
T-2B		Oct-08	20.4	6.86	--	--	-437	--	--	--
T-2B		Oct-09	20.56	6.65	2.03	3.1	-138	--	--	--
T-2B		10/12/2010[c]	20.00	6.82	1.53	7.7	-108	--	490	<1.0
T-2B		10/20/2010[b]	19.71	6.77	1.54	170.7	-95	--	--	57.0
T-2B		11/15/2010[a]	19.6	6.94	1.62	81.4	-118	--	540	27.0
T-2B		May-11	--	--	--	--	--	--	500	1.4 J
T-2B		Oct-11	19.92	6.88	1.57	0.1	-131.5	--	510	<1.0
T-2B		Apr-12	19.09	6.98	1.51	--	-105	--	--	1.2
T-2B		Oct-12	20.08	6.95	1.49	0	-119.7	--	--	0.11 J

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

T-2B		May-13	20.68	7.18	1.501	123	-111	--	--	1.5
T-2B		Oct-13	19.3	6.49	1.449	2	-125.8	--	--	<1
T-2B		Apr-14	19.4	6.77	1.723	5	-122	--	--	1.9
T-2B		Sep-14	19.91	7.01	1.77	0	-125	--	--	--
T-5B		Oct-08	20.0	7.69	0.118	5.9	--	--	--	--
T-5B		Oct-09	20.73	7.11	1.26	0.5	50	--	--	--
T-5B		Oct-10	21.33	7.11	1.237	0.0	107.1	--	--	--
T-5B		Oct-11	22.57	7.18	1.21	3.9	83.5	--	--	--
T-5B		Oct-12	21.05	7.11	1.23	0.0	76.9	--	--	--
T-5B		Oct-13	21.5	6.88	1.15	3	95.8	--	--	--
T-5B		Oct-14	20.7	7.25	1.107	1	149.8	--	--	--
T-5B		Oct-15	24.2	7.15	1.145	--	278	--	--	--
T-5B		Oct-16	21.5	7.56	0.927	--	9.7	--	--	--
T-5B		Oct-17	20.8	7.23	1.103	1	217.6	--	--	--
T-5B		Oct-18	23.6	7.41	1.143	--	5.9	--	--	--
T-5B	Dup	Oct-18	23.6	7.41	1.143	--	5.9	--	--	--
T-8B		Oct-99	22.1	5.77	1.5	0	130	1.09	500	3.1
T-8B		Oct-00	21.5	6.82	1.46	10	180	290	500	4.1
T-8B		Nov-00	20.1	6.60	1.42	1	-264	95	570	6.6
T-8B		Dec-00	19.8	7.02	1.59	7	-306	3.5	720	11
T-8B		Feb-01	19.4	7.02	1.336	--	-186	11	74	<2.0
T-8B		Apr-01	20.0	6.64	1.58	40	-133	140	610	3.6
T-8B		Jun-01	22.8	6.81	1.59	0	-42	3.5	480	<5.0
T-8B		Aug-01	20.4	6.64	1.43	0	-101	16	550	6.3
T-8B		Oct-01	21.5	6.09	1.39	22	77	11	510	<5.0
T-8B		Jan-02	18.8	6.79	1.48	18	-75	33	590	<5.0
T-8B		Mar-02	19.6	6.97	1.46	24	20	23	500	<5.0
T-8B		Jul-02	20.0	6.39	2	--	322	2000	500	<5.0
T-8B		Oct-02	20.4	6.91	1.41	143	-72	6.1	550	<5.0
T-8B		Jan-03	19.3	6.72	1.4	0	-35	--	--	--
T-8B		Apr-03	19.6	6.90	1.16	9	-83	--	--	--
T-8B		Jul-03	20.2	7.48	1.51	26	-40	--	--	--
T-8B		Oct-03	20.5	6.94	1.5	14	-30	--	--	--
T-8B		Apr-04	21.6	6.83	1.4	15	-23	--	--	--
T-8B		Oct-04	23.2	6.15	1.5	36	-161	--	--	--
T-8B		Apr-05	20.1	6.95	1.41	351	-83	--	--	--
T-8B		Jul-05	21.7	6.64	1.43	--	-59	--	500	8.3
T-8B		Oct-05	21.4	6.84	1.51	0	-96	--	--	<5.0
T-8B		Jan-06	19.6	6.95	1.35	93	-114	--	--	--
T-8B		Apr-06	20.1	6.65	1.56	32	-230	--	--	<5.0
T-8B		Jul-06	22.4	6.65	0.15	43	-113	--	--	<5.0
T-8B		Oct-06	20.7	6.75	1.38	217	-158	--	--	<5.0
T-8B		Jan-07	20.0	6.36	1.65	--	-76	--	--	<5.0
T-8B		Apr-07	24.5	6.62	1.35	9	-56	--	--	<5.0
T-8B		Oct-07	21.9	6.68	2.87	186	-112	--	--	<5.0
T-8B		Oct-08	22.0	6.78	199	--	-180	--	--	--
T-8B		Oct-09	24.31	6.42	1.55	41	-64	--	--	<5.0
T-8B		Oct-10	20.60	6.90	6.2	0.4	-57.0	--	--	--
T-8B		Oct-11	20.13	6.90	1.515	9.0	59.4	--	--	--
T-8B		Oct-12	21.73	6.77	1.432	15.6	-61.4	--	--	<1.0
T-8B		Oct-13	20.6	6.63	1.338	10	-75.6	--	--	--
T-8B		Oct-14	20.8	7.02	1.339	1	-64.4	--	--	--
T-8B		Jun-15	22.3	6.94	1.378	--	-94	--	--	--
T-8B		Oct-15	24.8	7.27	0.880	--	-138	--	--	--
T-8B		May-16	20.2	7.11	1.417	2	-53	--	--	--
T-8B		Oct-16	21.2	7.38	1.259	--	-92.1	--	--	--
T-8B		Oct-17	20.9	7.04	1.347	9	137.6	--	--	--
T-8B		Oct-18	22.4	7.21	1.389	--	-81.6	--	--	--
T-9B		Oct-08	20.4	7.57	0.127	0	--	--	--	--
T-9B		Oct-09	20.39	6.92	1.43	25.8	-55	--	--	--
T-9B		Oct-10	21.53	7.04	1.591	0.0	-168.6	--	--	--
T-9B		Oct-11	20.60	7.06	1.547	0.0	-131.8	--	--	--
T-9B		Oct-12	20.95	6.94	1.585	1.1	42.8	--	--	<1.0
T-9B		Oct-13	25.1	6.76	1.471	1	99.4	--	--	--
T-9B		Oct-14	19.9	7.09	1.403	1	234	--	--	--
T-9B		Jun-15	21.8	6.98	1.412	--	17	--	--	--
T-9B		Oct-15	24.6	7.20	0.871	--	143	--	--	--
T-9B		May-16	27.1	7.16	1.454	1	78	--	--	--
T-9B		Oct-16	18.6	8.37	0.885	--	-130.4	--	--	--
T-9B		Jan-17	20.4	7.17	1.337	1	237.9	--	--	--
T-9B		Jan-17	19.84	7.19	1.279	1	223.9	--	--	--
T-9B		Oct-17	20.7	7.12	1.408	1	172.6	--	--	--
T-9B		Oct-18	22.8	7.27	1.402	--	9	--	--	--
T-10B		Oct-05	22.0	7.04	1.3	462	15	--	--	5.4
T-10B		Jan-06	20.5	6.96	0.98	35	-43	--	--	<5.0
T-10B		Apr-06	20.8	6.61	1.59	43	-195	--	--	<5.0
T-10B		Jul-06	22.9	6.51	0.15	86	30	--	--	<5.0
T-10B		Oct-06	23.9	6.75	1.32	--	4	--	--	<5.0
T-10B		Jan-07	20.2	6.39	1.52	--	8	--	--	<5.0
T-10B		May-07	21.2	6.88	0.108	404	-58	--	--	--
T-10B		Jul-07	22.0	7.51	0.11	216	-23	--	--	--
T-10B		Oct-07	21.7	7.17	0.15	398	-55	--	--	<5.0
T-10B		Oct-08	22.3	7.19	0.273	43.2	-51	--	--	--
T-10B		Oct-09	21.62	6.27	1.65	2.3	-49	--	--	<5.0
T-10B		Oct-10	20.68	6.85	5.932	0.0	-13.0	--	--	--
T-10B		Oct-11	20.60	6.76	1.49	0.0	234.9	--	--	--

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

T-10B		Oct-12	21.52	6.48	1.382	0.0	130.0	--	--	<1.0
T-10B		Oct-13	18.6	6.72	1.121	2	184.8	--	--	--
T-10B		Oct-14	22.8	6.94	1.322	1	1.4		--	--
T-10B		Oct-15	24.9	7.55	0.341	--	-159			
T-10B		Oct-16	20.5	6.71	397	--	-38.3	--	--	--
T-10B		Oct-17	23.6	6.89	1.42	2	146.2	--	--	--
T-10B		Oct-18	22.1	7.43	1.068	--	-79.8	--	--	--
T-4B		Oct-99	20.2	6.34	1.27	0	12	1.29	420	2.2
T-4B		Apr-03	19.5	7.30	1.22	0	277	--	--	--
T-4B		Jul-03	19.7	7.86	1.34	3	-38	--	--	--
T-4B		Jan-04	19.4	6.86	1.39	0	-61	--	430	--
T-4B		Apr-04	20.1	6.95	1.29	0	-40	--	440	--
T-4B		Oct-04	21.1	7.25	1.3	--	--	--	--	--
T-4B		Jan-05	20.0	7.24	1.41	--	-92	--	--	--
T-4B		Apr-05	19.7	7.30	1.34	343	-63	--	--	--
T-4B		Jul-05	20.7	6.98	1.32	--	11	--	460	7.6
T-4B		Oct-05	21.1	7.23	1.42	421	-37	--	--	<5.0
T-4B		Jan-06	20.5	7.34	1.28	53	-121	--	--	--
T-4B		Apr-06	20.1	6.91	1.29	22	-161	--	--	--
T-4B		Oct-06	20.1	7.79	1.34	213	-111	--	--	--
T-4B		May-07	20.3	7.54	1.05	--	95	--	--	--
T-4B		Jul-07	20.8	7.73	0.1	46.5	78	--	--	--
T-4B		Oct-07	20.2	7.59	0.14	311	-82	--	--	<5.0
T-4B		Oct-08	21.9	7.3	187	--	-144	--	--	--
T-4B		Oct-09	19.92	6.61	1.57	9.9	-137	--	--	--
T-4B		Oct-10	21.74	7.23	5.526	6.8	-17.6	--	--	--
T-4B		Oct-11	22.4	7.24	1.383	0	49.2	--	--	--
T-4B		Oct-12	21.42	7.07	1.418	5.5	19	--	--	--
T-4B		Oct-13	20.9	7.09	1.071	1	110	--	--	--
T-4B		Oct-14	21.6	7.29	1.306	2	-53.3	--	--	--
T-4B		Jun-15	20.9	7.80	0.829	--	41	--	--	--
T-4B		Oct-15	32.2	8.11	0.837	--	279			
T-4B		May-16	21.7	7.54	1.286	9	48	--	--	--
T-4B		Oct-16	23.7	8.15	0.831	--	-8.3	--	--	--
T-4B		Oct-17	21.4	7.27	1.331	2	141.7	--	--	--
T-4B		Oct-18	23.5	7.41	1.334	--	-70	--	--	--
T-17B		Jan-06	19.0	7.14	1.18	0	-82	--	--	--
T-17B		Apr-06	21.0	6.81	1.25	159	-237	--	--	--
T-17B		Jul-06	23.8	6.93	0.125	95	-106	--	--	--
T-17B		Oct-06	20.3	7.86	0.819	--	-113	--	--	--
T-17B		Jan-07	19.6	6.30	1.28	--	25	--	--	--
T-17B		May-07	20.6	7.02	0.1	205	64	--	--	--
T-17B		Jul-07	21.5	7.57	0.09	255	73	--	--	--
T-17B		Oct-07	20.8	7.39	0.12	581	-65	--	--	<5.0
T-17B		Oct-08	22.1	7.5	0.139	35.4	-186	--	--	--
T-17B		Oct-09	21.49	6.70	1.47	13.5	-36	--	--	--
T-17B		Oct-10	20.08	7.22	1.321	0.0	-28.8	--	--	--
T-17B		Oct-11	21.03	7.15	1.079	9.6	66.7	--	--	--
T-17B		Apr-12	19.08	7.12	1.152	--	34.3	--	--	0.55 J
T-17B		Oct-12	21.15	6.84	1.23	1.4	124.6	--	--	<1.0
T-17B		May-13	22	7.2	1.313		-17	--	--	1
T-17B		Oct-13	20.2	7.22	1.246	6	-14.6	--	--	<1
T-17B		Apr-14	18.4	7.21	1.248	8	-55	--	--	<1
T-17B		Oct-14	20	7.29	1.206	4	7.4	--	--	1.3
T-17B		Jun-15	22.8	7.13	1.217	--	-11.2	--	--	0.43 J
T-17B		Oct-15	22.2	7.09	1.176	--	-14	--	--	0.38 J
T-17B		May-16	25.0	7.20	1.254	67	12	--	--	0.68 J
T-17B		Oct-16	21.1	7.06	1.158	--	-33.4	--	--	0.57 J
T-17B		Oct-17	19.9	7.17	1.200	9	220.6	--	--	0.26 J
T-17B		Oct-18	21.6	7.29	1.26	--	-43.3	--	--	--
T-18B		May-13	23.04	8.04	0.994	--	-175	--	--	--
T-18B		Oct-13	22	7.35	0.898	5	-89.5	--	--	--
T-18B		Oct-14	23.4	7.63	0.846	24	-76.8	--	--	--
T-18B		Oct-15	20.5	8.25	0.825	--	122.4			
T-18B		Oct-16	20.1	7.49	0.64	--	7.9	--	--	--
T-18B		Oct-17	22.2	7.58	0.784	66	93.6	--	--	--
T-18B		Oct-18	23.3	7.64	0.853	--	-98.4	--	--	--
T-19B		May-13	21.44	6.94	1.095	--	34	--	--	--
T-19B		Oct-13	20.6	6.86	1.008	118	93.6	--	--	--
T-19B		Oct-14	22.7	7.26	1.001	102	90.2	--	--	--
T-19B		Oct-15	20.2	7.22	1.033	--	133.6			
T-19B		Oct-16	17.7	9.2	0.999	--	106.4	--	--	--
T-19B		Oct-17	19.4	7.16	1.008	519	305.5	--	--	--
T-19B		Oct-18	19.4	7.3	1.048	--	205.1	--	--	--
T-20B		Oct-17	22.3	7.11	1.480	42	139.6	--	--	--
T-20B		Oct-18	21.6	7.39	1.39	--	67.5	--	--	--
T-21B		Oct-17	20.5	7.08	1.267	3	185.6	--	--	--
T-21B		Oct-18	22.4	7.31	1.311	--	32.9	--	--	--
T-22B		Oct-17	21.4	6.96	1.337	4	137.4	--	--	--
T-22B		Oct-18	20.3	7.02	1.391	--	75.8	--	--	--
T-23B		Oct-17	25.1	7.06	1.397	177	89.2	--	--	--
T-23B		Oct-18	22.6	7.1	1.379	--	27	--	--	--
T-24B		Oct-17	20.7	7.33	1.270	183	128.6	--	--	--
T-24B		Oct-18	21.2	7.51	1.319	--	9.8	--	--	--
Zone B2 Aquifer Wells										
T-2C		Oct-01	21.0	6.87	0.811	10	-24	2.0	320	<5.0

Historical Groundwater General Environmental Parameter Results
Former TRW Microwave Site
825 Stewart Drive, Sunnyvale, California

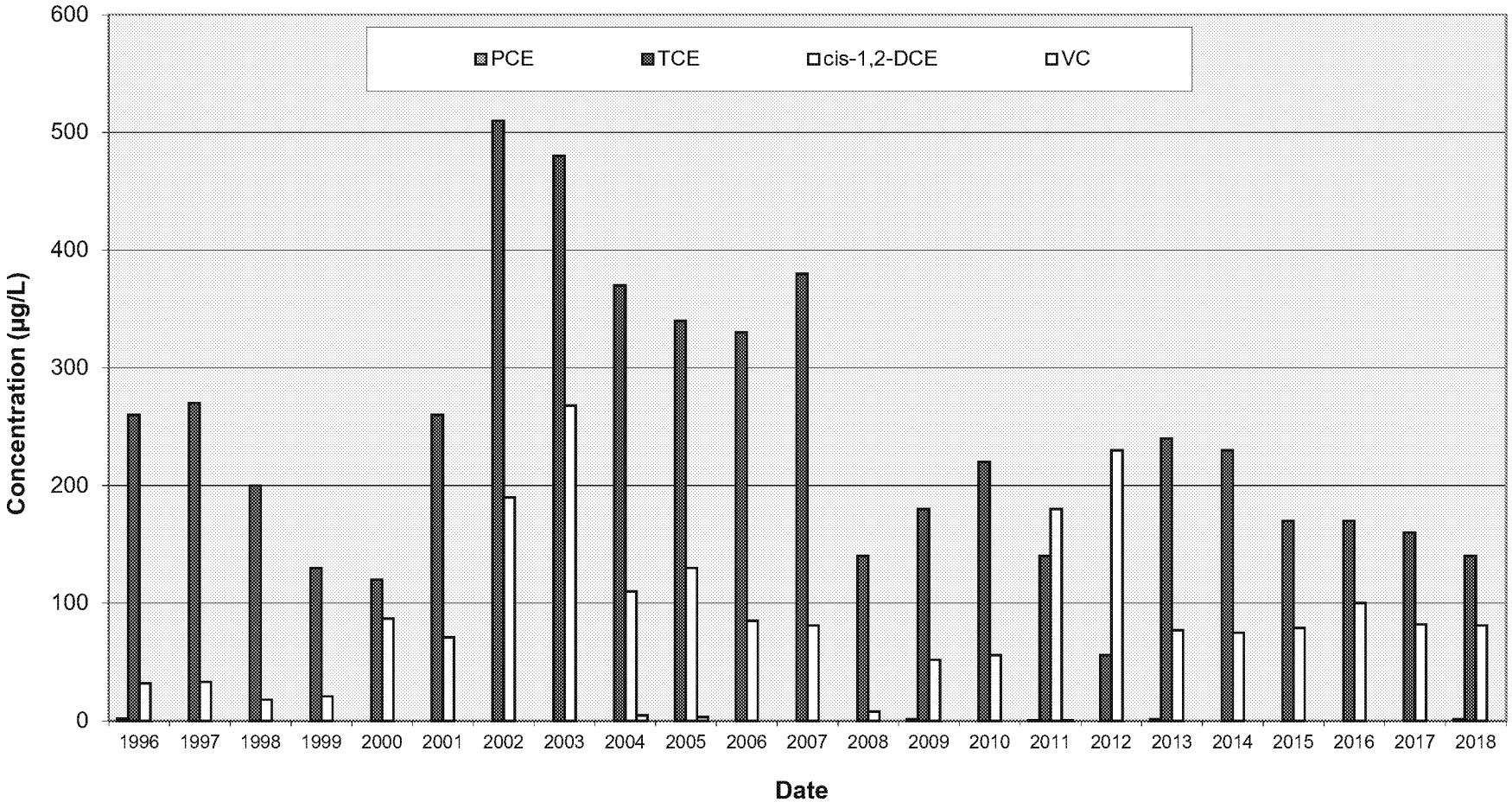
T-2C		Oct-07	21.8	7.06	1.26	9.5	11	2.0	320	--
T-2C		Oct-08	20	7.79	93	0	57	--	--	--
T-2C		Oct-09	20.02	7.08	0.96	372	20	--	--	--
T-2C		Oct-10	21.94	7.90	0.87	0.0	150.7	--	--	--
T-2C		Oct-11	20.32	7.50	0.899	0.9	64.3	--	--	--
T-2C		Oct-12	20.02	7.46	0.929	2.3	57.1	--	--	--
T-2C		Oct-13	19.1	7.97	0.817	2.0	147.2	--	--	--
T-2C		Apr-14	19.5	5.62	0.83	7	121	--	--	--
T-2C		Sep-14	19.77	7.84	0.91	0	110	--	--	--
T-10C		Oct-08	19.9	7.98	86	0	--	--	--	--
T-10C		Oct-09	20.53	7.52	0.914	-4.1	-91	--	--	--
T-10C		Oct-10	21.44	7.63	0.805	0.0	-117.5	--	--	--
T-10C		Oct-11	21.71	7.52	0.825	1.3	-192.2	--	--	--
T-10C		Oct-12	21.22	7.40	0.825	0.0	162.3	--	--	--
T-10C		Oct-13	20.9	7.71	0.783	7	-50.3	--	--	--
T-10C		Oct-14	20.7	7.68	0.756	5	77.7	--	--	--
T-10C		Jun-15	20.8	7.32	0.854	--	-150	--	--	--
T-10C		Oct-15	25.2	7.59	0.847	--	-222			
T-10C		May-16	21	7.46	0.963	17	-41			
T-10C		Oct-16	21.1	7.61	0.783	--	-32.7	--	--	--
T-10C		Oct-17	20.3	7.53	0.798	8	162.4	--	--	--
T-10C		Oct-18	22.8	7.65	0.872	--	-135.8	--	--	--
T-11C		Oct-08	20.5	7.87	0.1	14.8	--	--	--	--
T-11C		Oct-09	20.31	7.22	0.98	156	71	--	--	--
T-11C		Oct-10	21.65	7.34	0.974	0.0	78.1	--	--	--
T-11C		Oct-11	21.25	7.33	0.956	0.0	-8.0	--	--	--
T-11C		Oct-12	21.66	6.94	0.971	0.0	208.0	--	--	--
T-11C		Oct-13	20.6	6.93	0.931	3	103.7	--	--	--
T-11C		Oct-14	22.2	7.38	0.903	1	37.4	--		
T-11C		Oct-15	22.2	7.83	0.809	--	114			
T-11C		Oct-16	22.6	7.61	0.775	--	-21.4	--	--	--
T-11C		Oct-17	22.7	7.37	0.895	1	90.3	--	--	--
T-11C		Oct-18	23.7	7.82	0.942	--	101.6	--	--	--
T-12C		Oct-08	19.8	10.4	32	19.3	73	--	--	--
T-12C		Oct-09	19.13	7.70	0.88	1.4	90	--	--	--
T-12C		Oct-10	20.53	9.44	12.84	1.8	65.0	--	--	--
T-12C		Oct-11	20.36	8.95	0.255	20.9	-5.1	--	--	--
T-12C		Oct-12	19.83	9.17	0.253	8.2	4.2	--	--	--
T-12C		Oct-13	20	7.38	0.858	23	113.8	--	--	--
T-12C		Oct-14	20.3	7.5	0.827	29	96.3	--		
T-12C		Oct-15	22.8	8.74	0.586	--	24			
T-12C		Oct-16	22.2	7.95	0.455	--	-104.8	--	--	--
T-12C		Oct-17	22.0	7.49	0.846	18	101.2	--	--	--
T-12C		Oct-18	21.9	7.61	0.7	--	57.9	--	--	--
Zone B3 Aquifer Well										
T-9C		Oct-08	20.7	8.24	76	0.2	--	--	--	--
T-9C		Oct-09	20.18	7.39	0.829	113	-96	--	--	--
T-9C		Oct-10	24.07	7.55	0.807	0.0	21.3	--	--	--
T-9C		Oct-11	20.35	7.78	0.765	0.0	-127.6	--	--	--
T-9C		Oct-12	21.23	7.50	0.777	0.0	48.0	--	--	--
T-9C		Oct-13	19.4	7.48	0.739	4	122.2	--	--	--
T-9C		Oct-14	23.1	7.85	0.723	2	14.3	--	--	--
T-9C		Oct-15	22.6	7.57	0.746	--	154			
T-9C		Oct-16	20.1	7.84	0.73	--	-25.5	--	--	--
T-9C		Oct-17	20.1	7.82	0.73	5	160.2	--	--	--
T-9C		Oct-18	22.8	7.62	0.762	--	45.8	--	--	--

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
$CaCo_3$ = calcium carbonate
-- = not analyzed/measured
Data prior to 2009 was not collected by AECOM and cannot be verified.

Appendix D

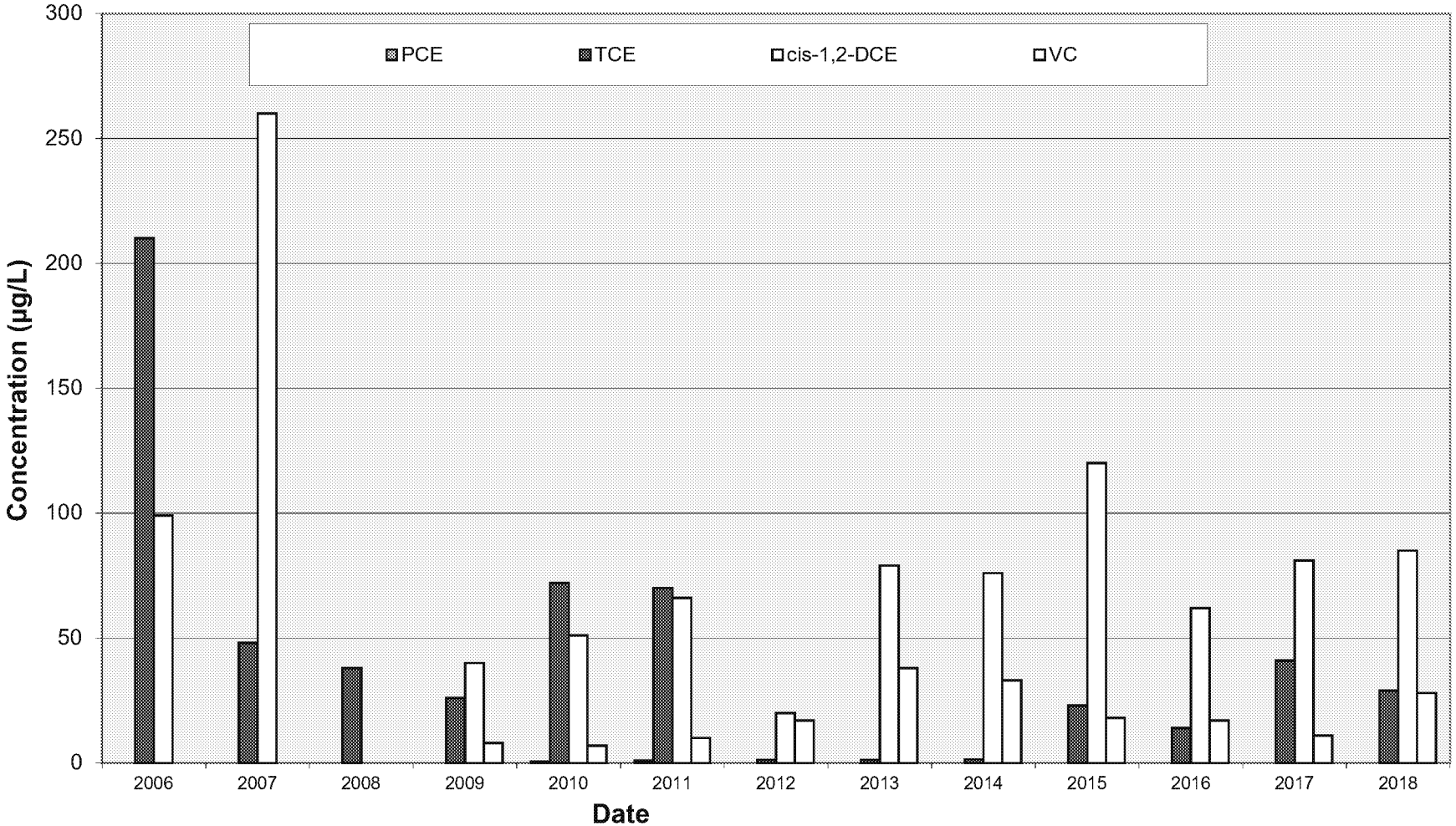
Chlorinated Ethene Concentration Trend Plots for Selected Wells

Chlorinated Ethene Concentration Trend Plot for Well T-7A



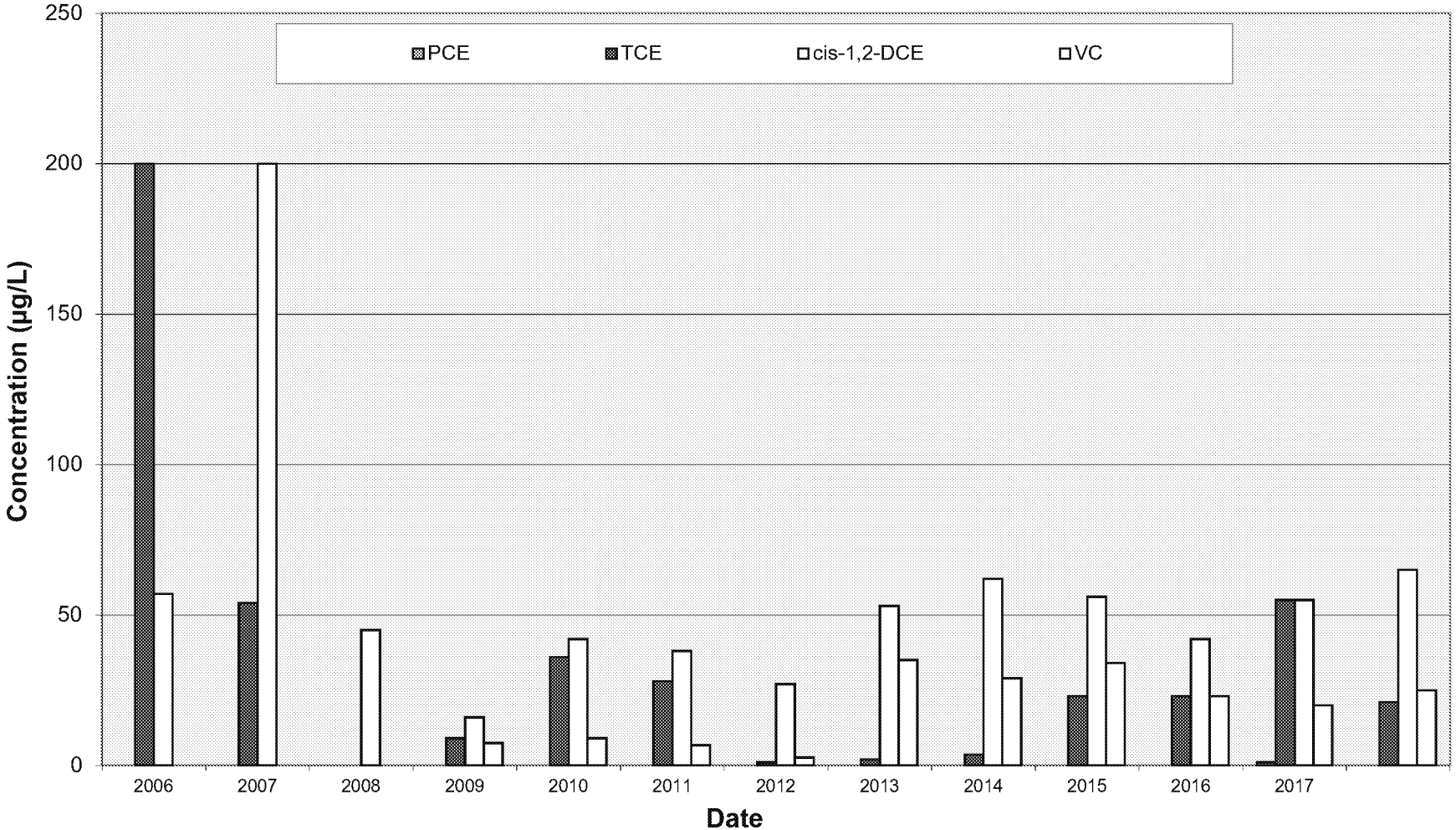
.Note: Suspension of groundwater extraction at wells Eductor, T-2A, T-8A, and T-9A occurred on April 6, 2001
.Enhanced anaerobic bioremediaiton program initiated in October 2000

Chlorinated Ethene Concentration Trend Plot for Well T-13A



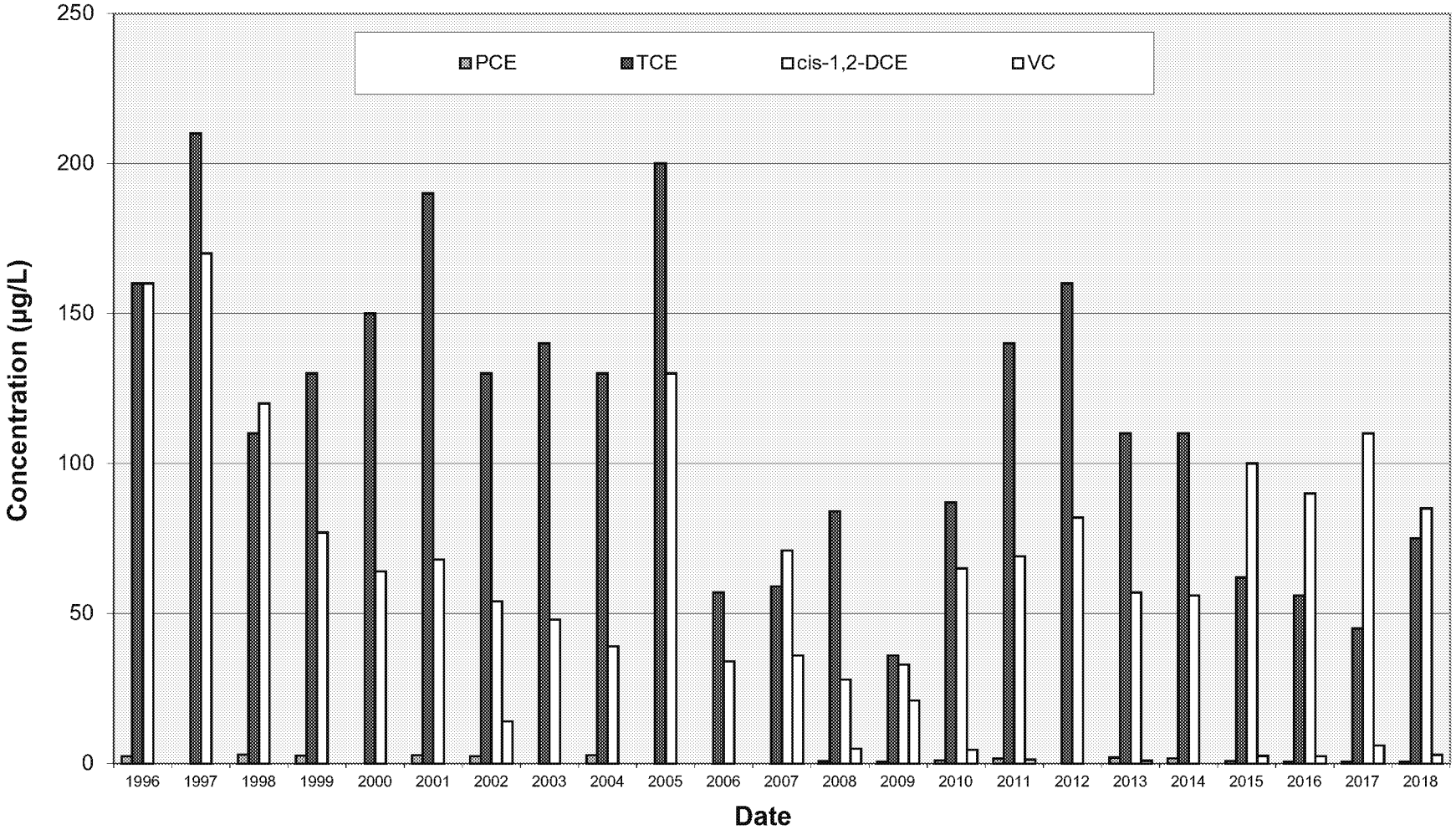
.Note: Well installed in August 2005. Enhanced anaerobic bioremediation program initiated in October 2000

Chlorinated Ethene Concentration Trend Plot for Well T-14A



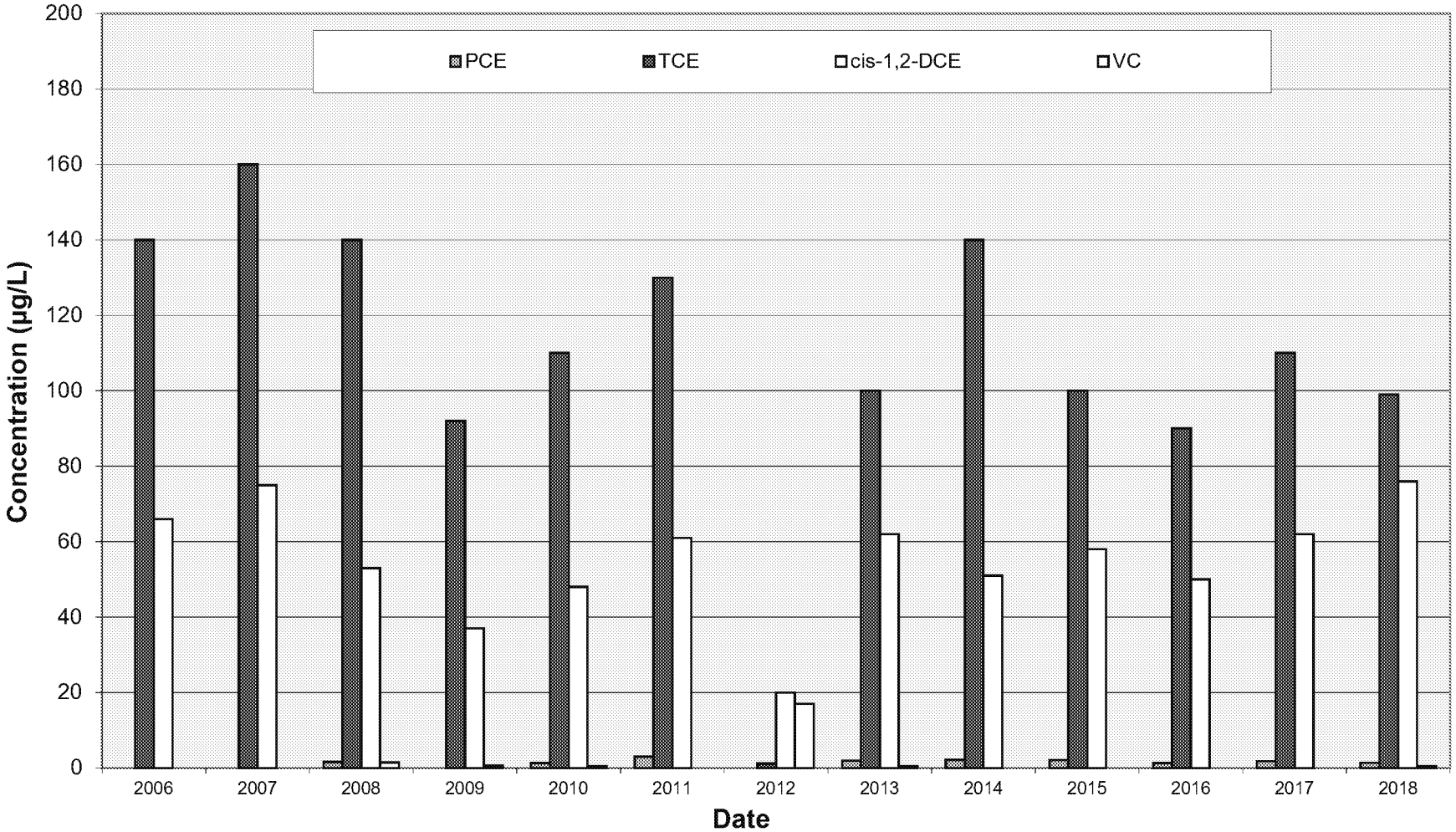
Note: Well installed in August 2005. Enhanced anaerobic bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-8A



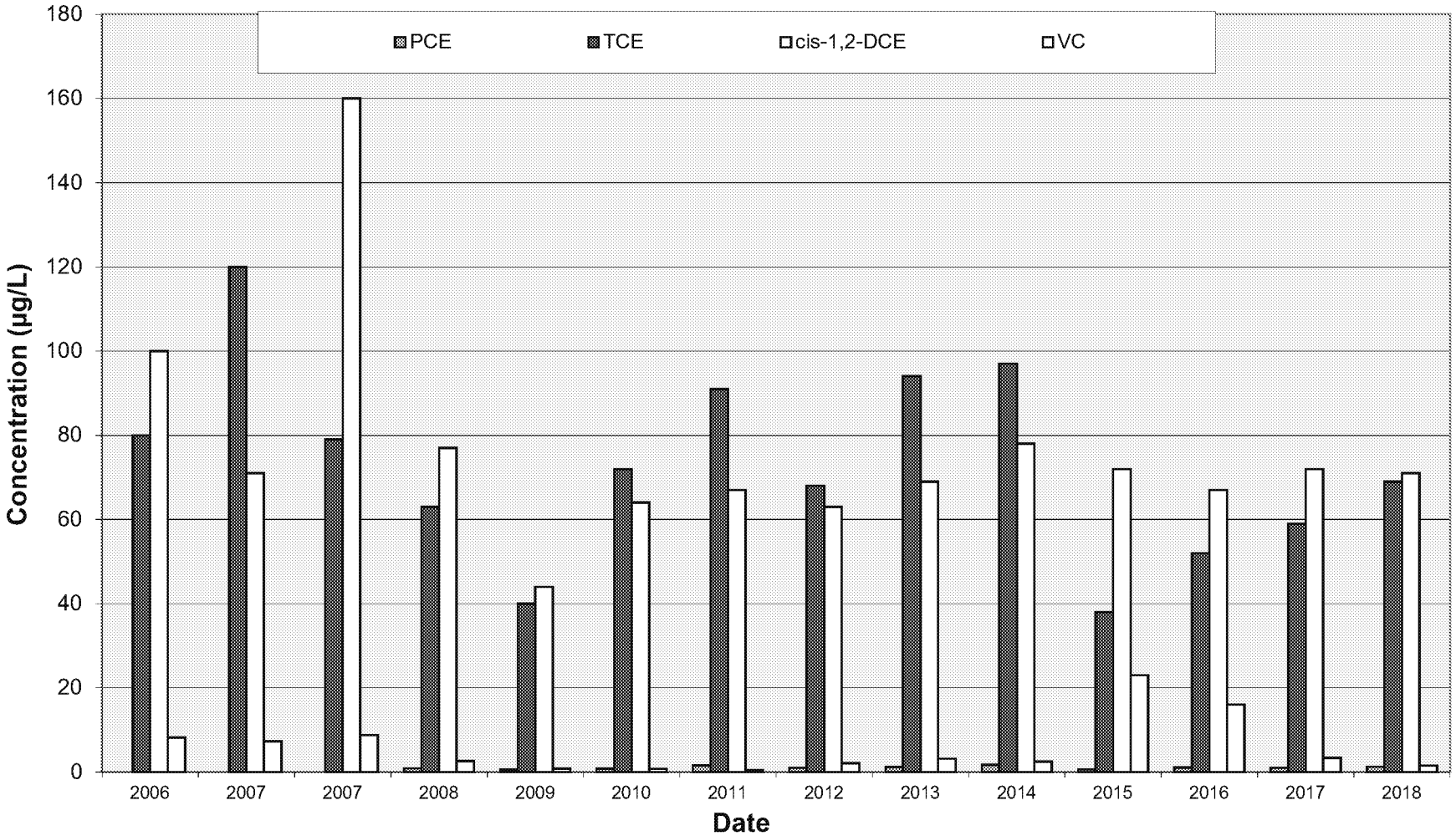
Note: Suspension of groundwater extraction occurred on April 6, 2001. Enhanced bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-15A



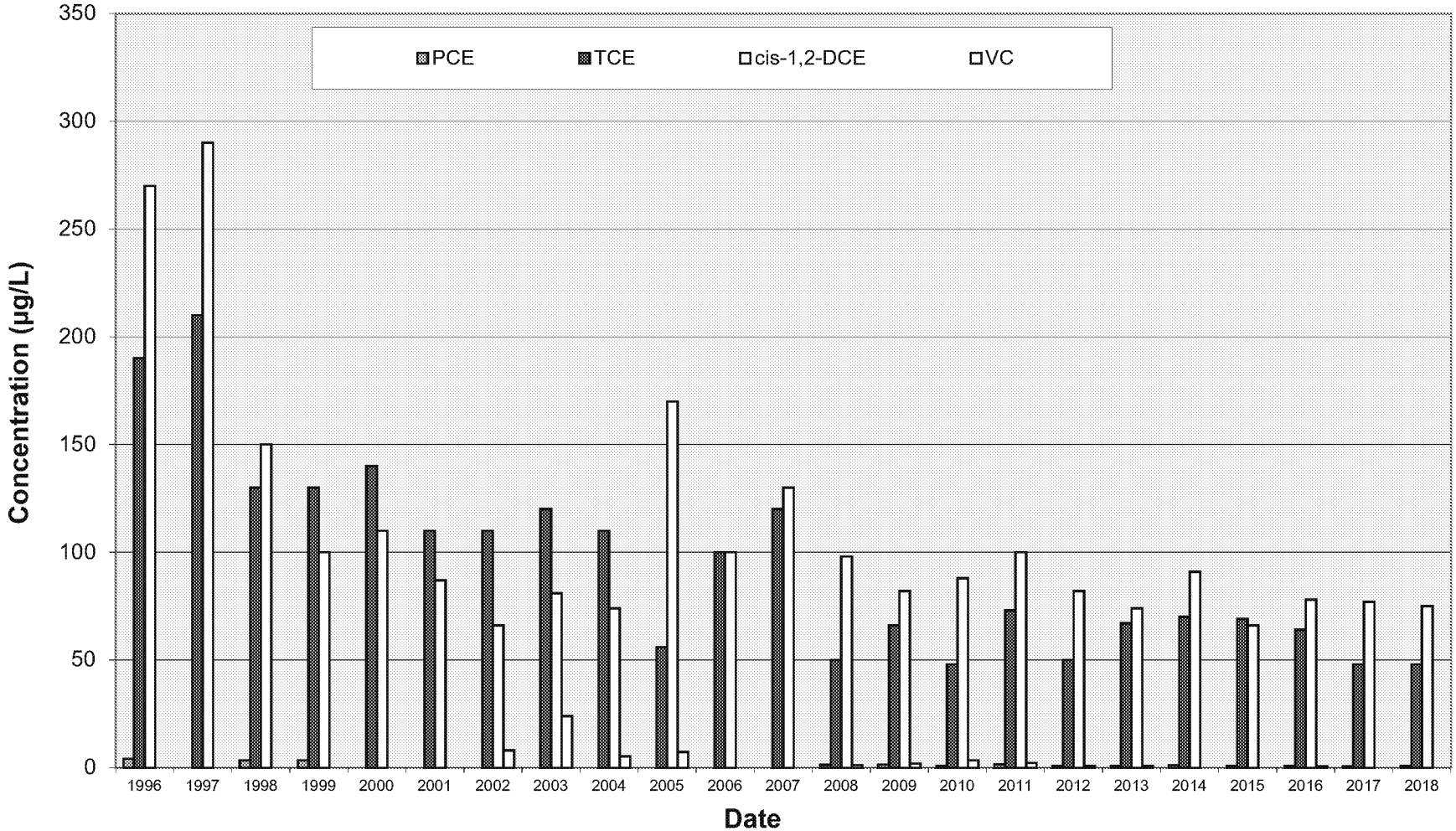
.Note: Well installed in August 2005. Enhanced anaerobic bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-16A



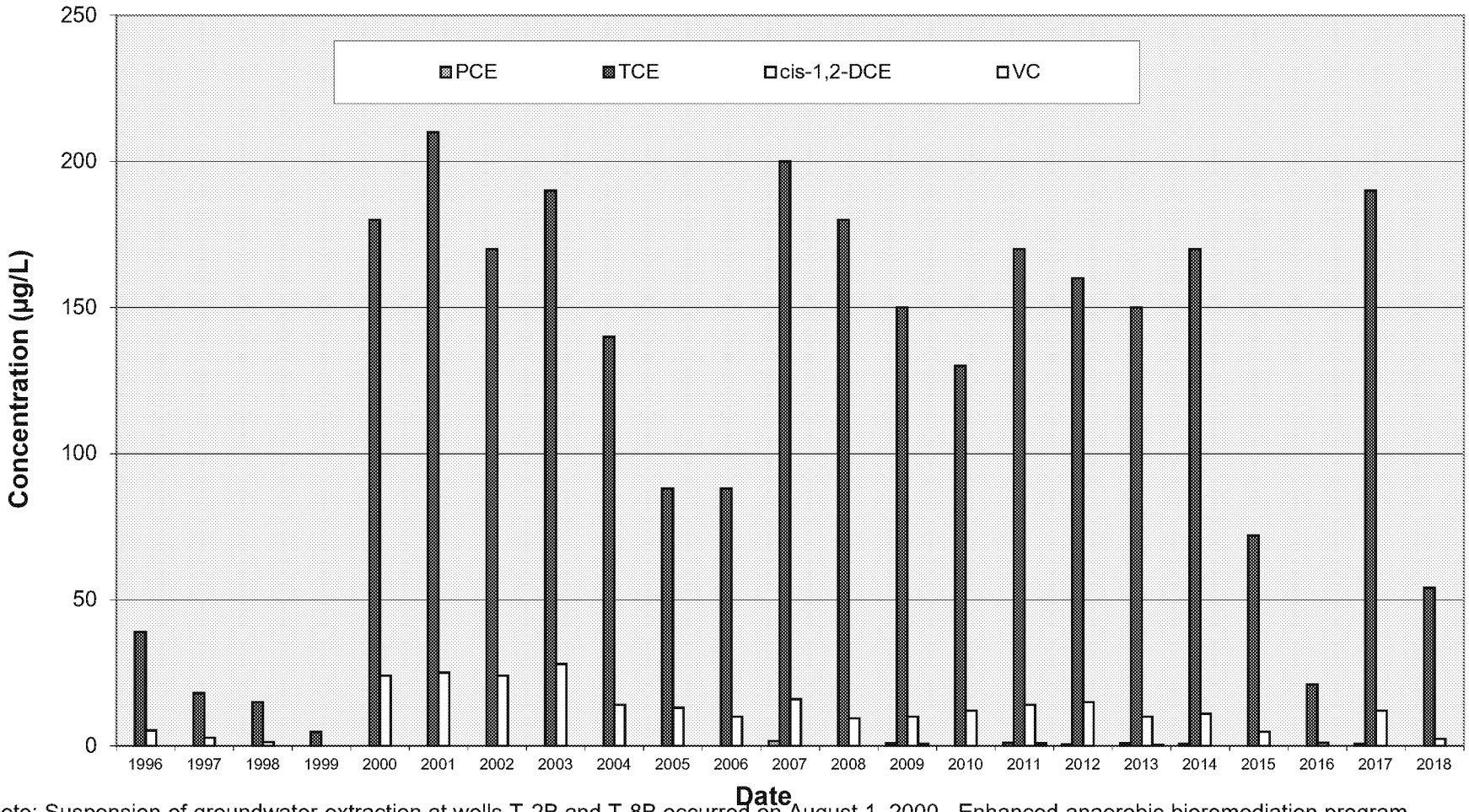
Note: Well installed in August 2005. Enhanced anaerobic reductive dechlorination program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-9A



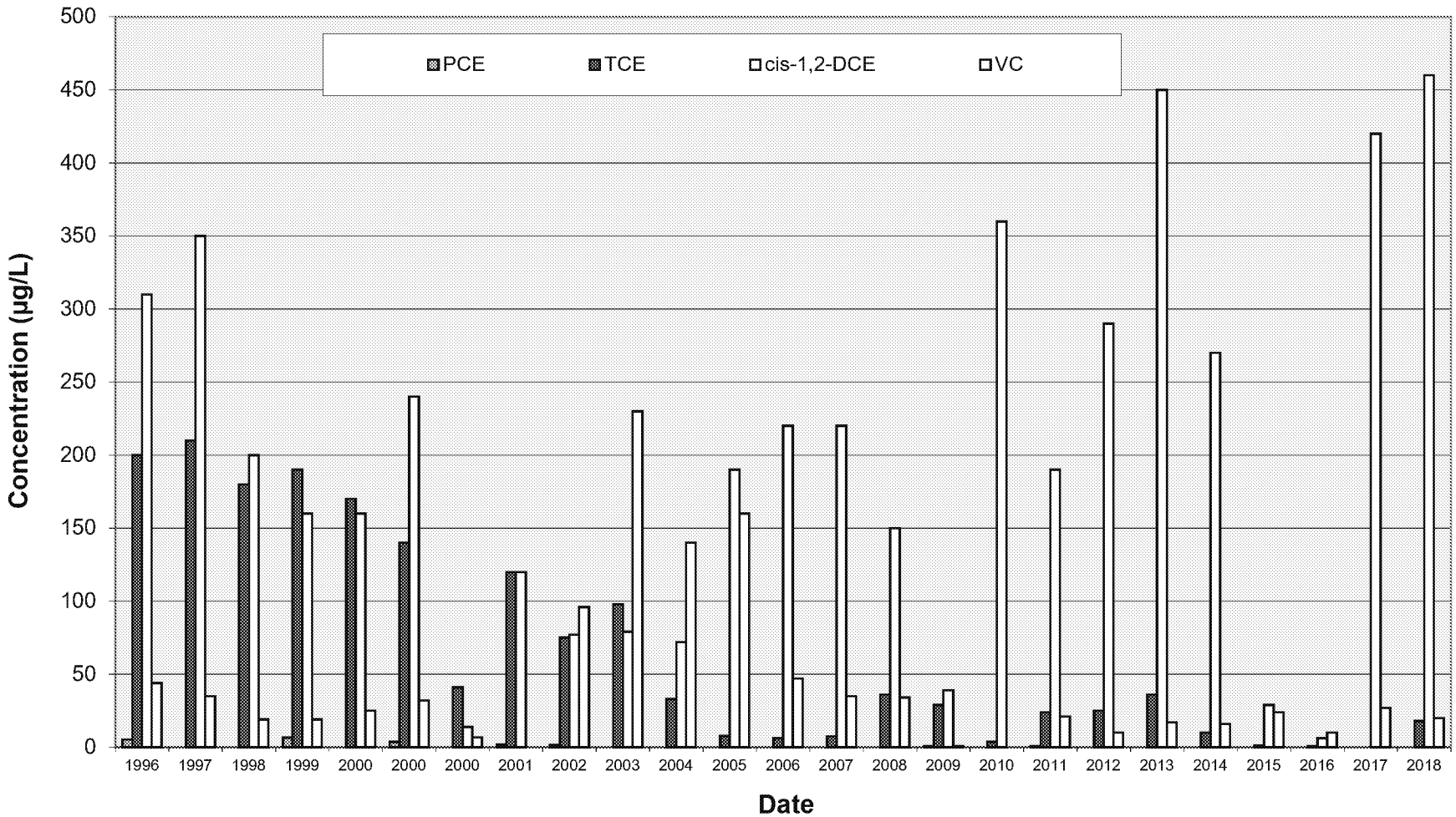
Note: Suspension of groundwater extraction occurred on April 6, 2001. Enhanced bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-7B



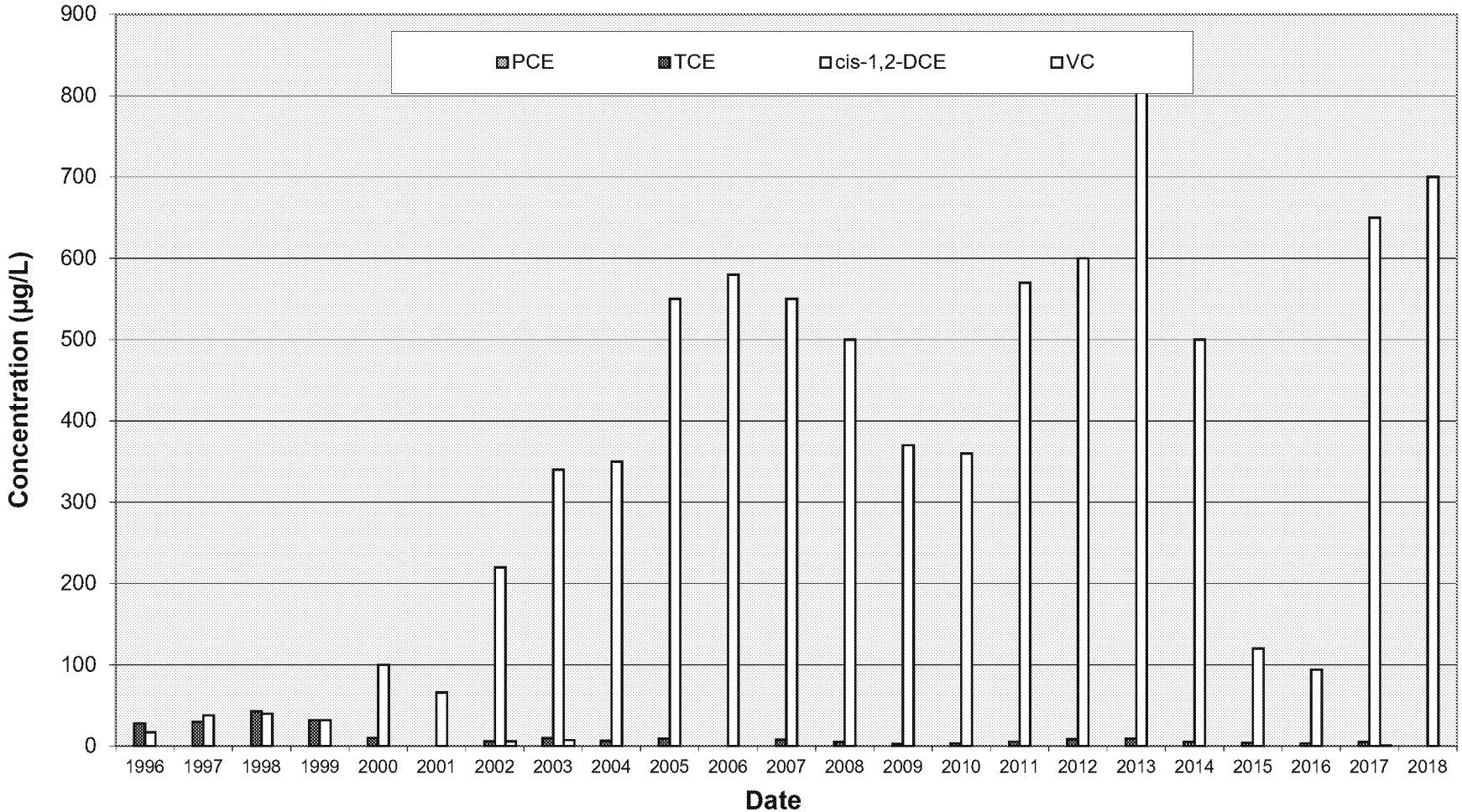
Note: Suspension of groundwater extraction at wells T-2B and T-8B occurred on August 1, 2000. Enhanced anaerobic bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-8B



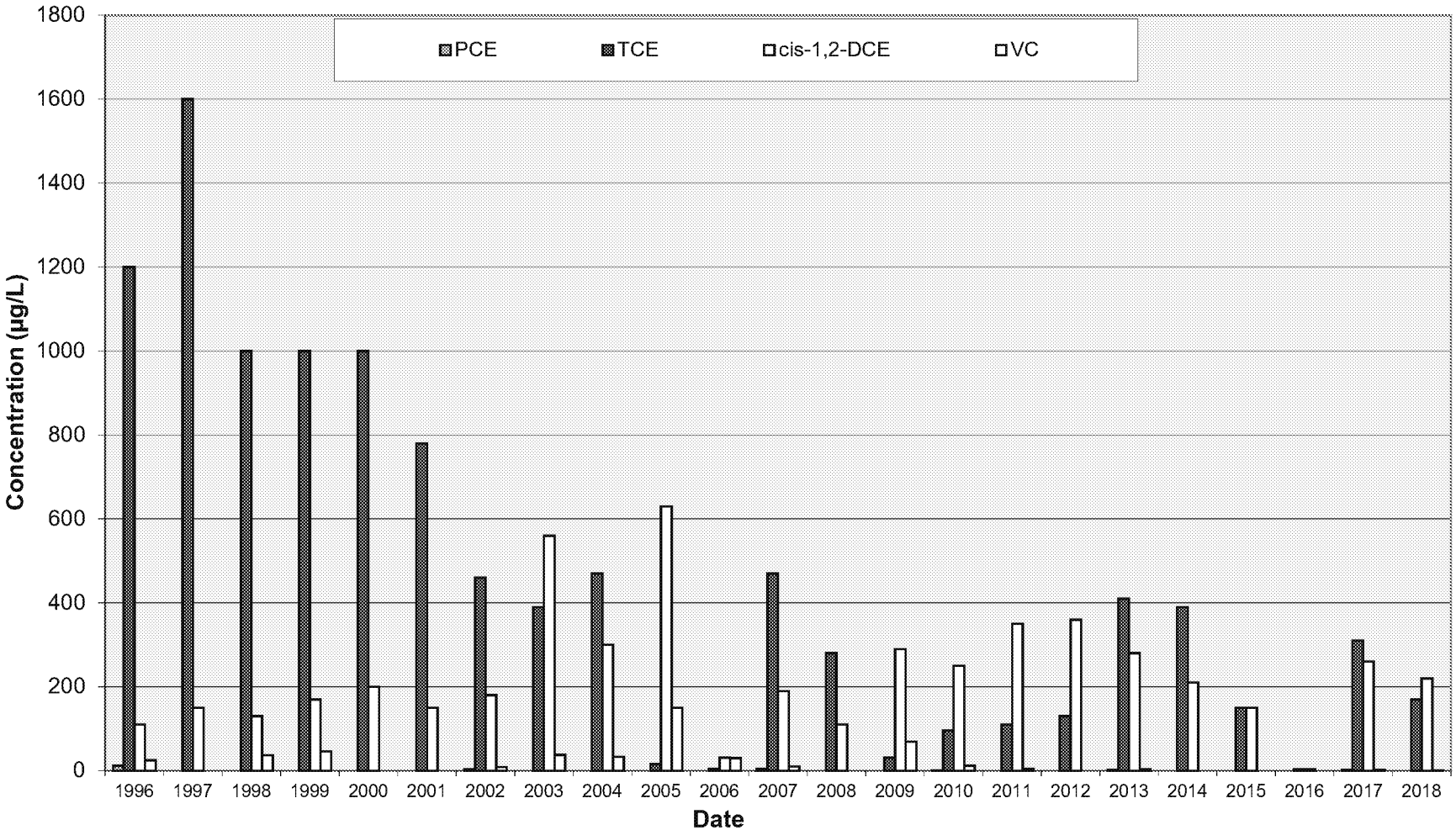
Note: Suspension of groundwater extraction on August 1, 2000. Enhanced anaerobic bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-4B



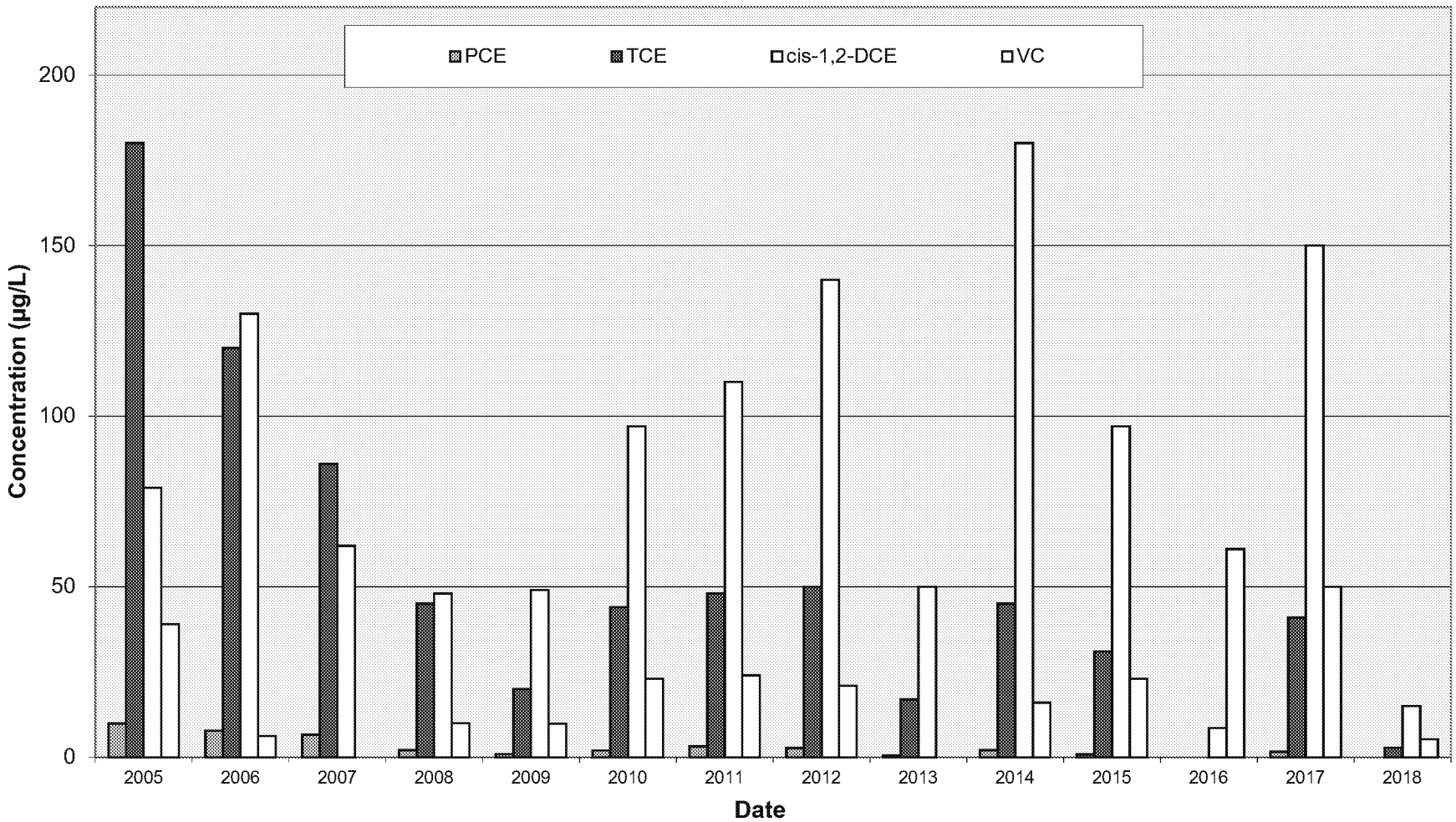
Note: Suspension of groundwater extraction at wells T-2B and T-8B occurred on August 1, 2000. Enhanced anaerobic bioremediation program inititated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-9B



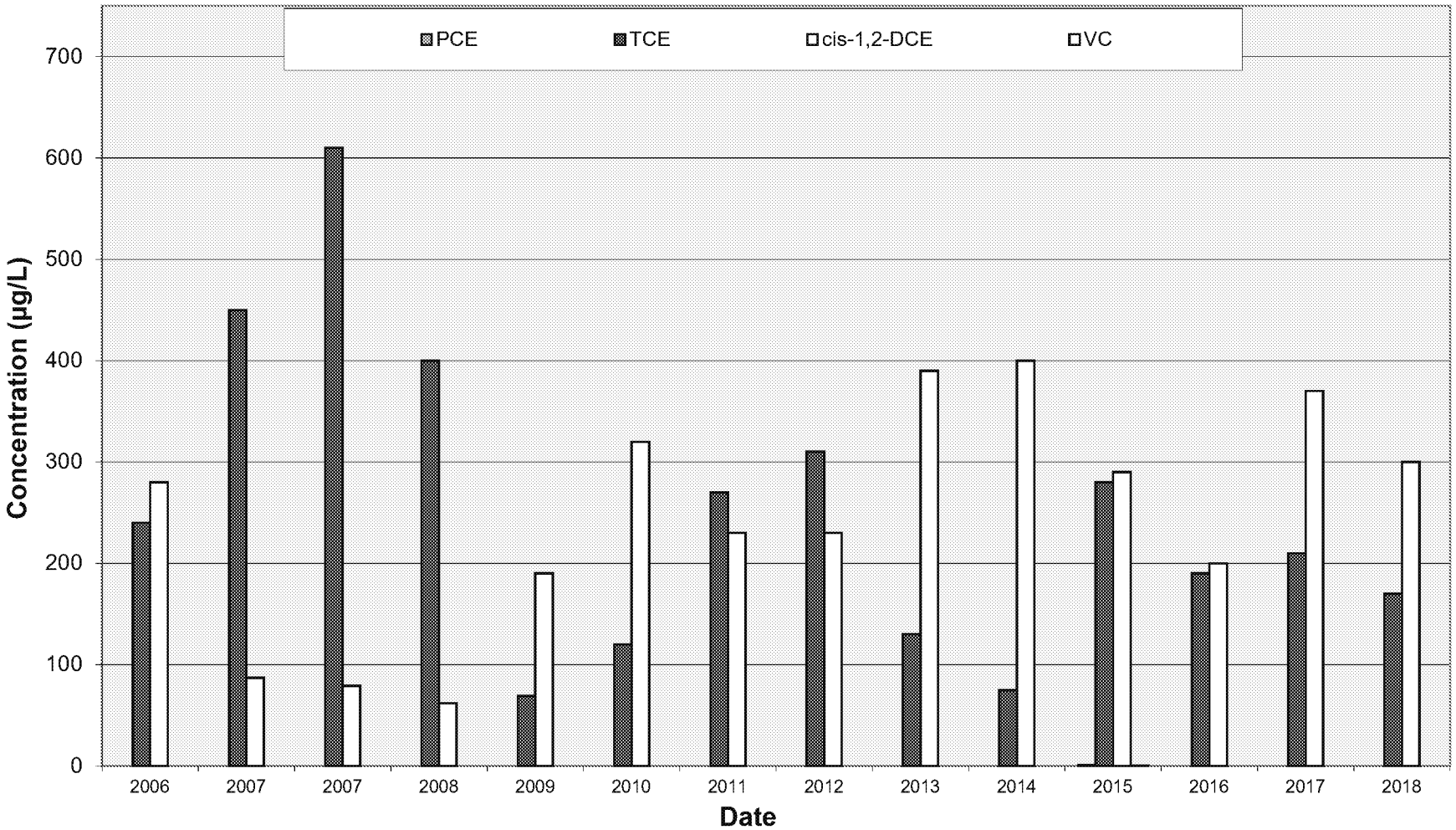
Note: Suspension of groundwater extraction occurred on April 6, 2001. Enhanced anaerobic bioremediation program initiated in October 2000.

Chlorinated Ethene Concentration Trend Plot for Well T-10B



.Note: Enhanced anaerobic reductive dechlorination program initiated in October 2000

Chlorinated Ethene Concentration Trend Plot for Well T-17B



.Note: Well installed in August 2005. Enhanced anaerobic reductive dechlorination program initiated in October 2000

Appendix E

Analytical Laboratory Reports and Chain-of-Custody Forms – 2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-89095-1
Client Project/Site: Former TRW Microwave

For:
AECOM
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Holly Holbrook

Authorized for release by:
10/18/2018 12:16:02 PM
Laura Turpen, Project Manager I
(916)374-4414
laura.turpen@testamericainc.com

Designee for

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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 7
Surrogate Summary 15
QC Sample Results 16
QC Association Summary 25
Lab Chronicle 26
Certification Summary 28
Method Summary 29
Sample Summary 30
Chain of Custody 31
Receipt Checklists 32

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Job ID: 720-89095-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-89095-1

Comments
No additional comments.

Receipt
The samples were received on 10/11/2018 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 720-253548 recovered above the upper control limit for Carbon tetrachloride and Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: TRIPBLANK-J6038-101118 (720-89095-1).

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 720-253558 recovered outside control limits for the following analytes: Vinyl chloride, Chloromethane and Trichlorofluoromethane.

Method(s) 8260B: Thelaboratory control sample duplicate (LCSD) for analytical batch 720-253558 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following volatile samples were analyzed with significant headspace in the sample container(s): J6038-T9B-101118 (720-89095-4), J6038-T17B-101118 (720-89095-5), and J6038-T5B-101118-1 (720-89095-6). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method(s) 8260B: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: J6038-T17B-101118 (720-89095-5). The sample was analyzed within 7 days per EPA recommendation.

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

Detection Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: TRIPBLANK-J6038-101118 — Lab Sample ID: 720-89095-1

No Detections.

Client Sample ID: J6038-T22B-101118 — Lab Sample ID: 720-89095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.95		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	0.69		0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.1		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	120		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	79		0.50		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		0.50		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.1		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T24B-101118 — Lab Sample ID: 720-89095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.6		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.50		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	3.9		0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.1		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	100		0.50		ug/L	1		8260B	Total/NA
Trichloroethene	48		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T9B-101118 — Lab Sample ID: 720-89095-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.7		0.50		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.64		0.50		ug/L	1		8260B	Total/NA
Vinyl chloride	1.4	*	0.50		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.9		0.50		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	220		5.0		ug/L	10		8260B	Total/NA
Trichloroethene	170		0.50		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.98		0.50		ug/L	1		8260B	Total/NA

Client Sample ID: J6038-T17B-101118 — Lab Sample ID: 720-89095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	300		5.0		ug/L	10		8260B	Total/NA
Trichloroethene	170		5.0		ug/L	10		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	7.4		5.0		ug/L	10		8260B	Total/NA

Client Sample ID: J6038-T5B-101118-1 — Lab Sample ID: 720-89095-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	39		25		ug/L	50		8260B	Total/NA
Trichloroethene	1200		25		ug/L	50		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	120		25		ug/L	50		8260B	Total/NA

Client Sample ID: J6038-T5B-101118-2 — Lab Sample ID: 720-89095-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1200		50		ug/L	100		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T5B-101118-2 (Continued) — Lab Sample ID: 720-89095-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	140		50		ug/L	100		8260B	Total/NA

Client Sample ID: J6038-T10C-101118 — Lab Sample ID: 720-89095-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	38		25		ug/L	50		8260B	Total/NA
cis-1,2-Dichloroethene	890		25		ug/L	50		8260B	Total/NA
Trichloroethene	260		25		ug/L	50		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	140		25		ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: TRIPBLANK-J6038-101118

Lab Sample ID: 720-89095-1
Date Collected: 10/11/18 07:30
Date Received: 10/11/18 18:30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			10/16/18 21:47	1
1,1-Dichloroethane	ND		0.50		ug/L			10/16/18 21:47	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/16/18 21:47	1
Vinyl chloride	ND		0.50		ug/L			10/16/18 21:47	1
Chloroethane	ND		1.0		ug/L			10/16/18 21:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/18 21:47	1
Methylene Chloride	ND		5.0		ug/L			10/16/18 21:47	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 21:47	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 21:47	1
Chloroform	ND		1.0		ug/L			10/16/18 21:47	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/16/18 21:47	1
Carbon tetrachloride	ND		0.50		ug/L			10/16/18 21:47	1
1,2-Dichloroethane	ND		0.50		ug/L			10/16/18 21:47	1
Trichloroethene	ND		0.50		ug/L			10/16/18 21:47	1
1,2-Dichloropropane	ND		0.50		ug/L			10/16/18 21:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/18 21:47	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 21:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 21:47	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/16/18 21:47	1
Tetrachloroethene	ND		0.50		ug/L			10/16/18 21:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/18 21:47	1
Chlorobenzene	ND		0.50		ug/L			10/16/18 21:47	1
Bromoform	ND		1.0		ug/L			10/16/18 21:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/18 21:47	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/16/18 21:47	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/16/18 21:47	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/16/18 21:47	1
Chloromethane	ND		1.0		ug/L			10/16/18 21:47	1
Bromomethane	ND		1.0		ug/L			10/16/18 21:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/16/18 21:47	1
EDB	ND		0.50		ug/L			10/16/18 21:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/18 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/16/18 21:47*	*1*
4-Bromofluorobenzene	*98*		*67 - 130*		*10/16/18 21:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*72 - 130*		*10/16/18 21:47*	*1*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T22B-101118

Lab Sample ID: 720-89095-2
Matrix: Water

Date Collected: 10/11/18 08:15
Date Received: 10/11/18 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**0.95**		0.50		ug/L			10/16/18 21:45	1
1,1-Dichloroethane	ND		0.50		ug/L			10/16/18 21:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/16/18 21:45	1
Vinyl chloride	**0.69**		0.50		ug/L			10/16/18 21:45	1
Chloroethane	ND		1.0		ug/L			10/16/18 21:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/18 21:45	1
Methylene Chloride	ND		5.0		ug/L			10/16/18 21:45	1
trans-1,2-Dichloroethene	**3.1**		0.50		ug/L			10/16/18 21:45	1
cis-1,2-Dichloroethene	**120**		0.50		ug/L			10/16/18 21:45	1
Chloroform	ND		1.0		ug/L			10/16/18 21:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/16/18 21:45	1
Carbon tetrachloride	ND		0.50		ug/L			10/16/18 21:45	1
1,2-Dichloroethane	ND		0.50		ug/L			10/16/18 21:45	1
Trichloroethene	**79**		0.50		ug/L			10/16/18 21:45	1
1,2-Dichloropropane	ND		0.50		ug/L			10/16/18 21:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/18 21:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 21:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 21:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/16/18 21:45	1
Tetrachloroethene	**1.3**		0.50		ug/L			10/16/18 21:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/18 21:45	1
Chlorobenzene	ND		0.50		ug/L			10/16/18 21:45	1
Bromoform	ND		1.0		ug/L			10/16/18 21:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/18 21:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/16/18 21:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/16/18 21:45	1
1,2-Dichlorobenzene	**2.1**		0.50		ug/L			10/16/18 21:45	1
Chloromethane	ND		1.0		ug/L			10/16/18 21:45	1
Bromomethane	ND		1.0		ug/L			10/16/18 21:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/16/18 21:45	1
EDB	ND		0.50		ug/L			10/16/18 21:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/18 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/18 21:45*	*1*
4-Bromofluorobenzene	*90*		*67 - 130*		*10/16/18 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*10/16/18 21:45*	*1*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T24B-101118

Lab Sample ID: 720-89095-3

Date Collected: 10/11/18 09:25
Date Received: 10/11/18 18:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**1.6**		0.50		ug/L			10/16/18 22:14	1
1,1-Dichloroethane	**0.50**		0.50		ug/L			10/16/18 22:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/16/18 22:14	1
Vinyl chloride	**3.9**		0.50		ug/L			10/16/18 22:14	1
Chloroethane	ND		1.0		ug/L			10/16/18 22:14	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/18 22:14	1
Methylene Chloride	ND		5.0		ug/L			10/16/18 22:14	1
trans-1,2-Dichloroethene	**1.1**		0.50		ug/L			10/16/18 22:14	1
cis-1,2-Dichloroethene	**100**		0.50		ug/L			10/16/18 22:14	1
Chloroform	ND		1.0		ug/L			10/16/18 22:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/16/18 22:14	1
Carbon tetrachloride	ND		0.50		ug/L			10/16/18 22:14	1
1,2-Dichloroethane	ND		0.50		ug/L			10/16/18 22:14	1
Trichloroethene	**48**		0.50		ug/L			10/16/18 22:14	1
1,2-Dichloropropane	ND		0.50		ug/L			10/16/18 22:14	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/18 22:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 22:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 22:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/16/18 22:14	1
Tetrachloroethene	ND		0.50		ug/L			10/16/18 22:14	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/18 22:14	1
Chlorobenzene	ND		0.50		ug/L			10/16/18 22:14	1
Bromoform	ND		1.0		ug/L			10/16/18 22:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/18 22:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/16/18 22:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/16/18 22:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/16/18 22:14	1
Chloromethane	ND		1.0		ug/L			10/16/18 22:14	1
Bromomethane	ND		1.0		ug/L			10/16/18 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/16/18 22:14	1
EDB	ND		0.50		ug/L			10/16/18 22:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/18 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/16/18 22:14*	*1*
4-Bromofluorobenzene	*93*		*67 - 130*		*10/16/18 22:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*10/16/18 22:14*	*1*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T9B-101118

Lab Sample ID: 720-89095-4

Date Collected: 10/11/18 11:00
Date Received: 10/11/18 18:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**1.7**		0.50		ug/L			10/17/18 02:53	1
1,1-Dichloroethane	**0.64**		0.50		ug/L			10/17/18 02:53	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/17/18 02:53	1
Vinyl chloride	**1.4**	*	0.50		ug/L			10/17/18 02:53	1
Chloroethane	ND		1.0		ug/L			10/17/18 02:53	1
Trichlorofluoromethane	ND	*	1.0		ug/L			10/17/18 02:53	1
Methylene Chloride	ND		5.0		ug/L			10/17/18 02:53	1
trans-1,2-Dichloroethene	**2.9**		0.50		ug/L			10/17/18 02:53	1
cis-1,2-Dichloroethene	**220**		5.0		ug/L			10/17/18 21:21	10
Chloroform	ND		1.0		ug/L			10/17/18 02:53	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/17/18 02:53	1
Carbon tetrachloride	ND		0.50		ug/L			10/17/18 02:53	1
1,2-Dichloroethane	ND		0.50		ug/L			10/17/18 02:53	1
Trichloroethene	**170**		0.50		ug/L			10/17/18 02:53	1
1,2-Dichloropropane	ND		0.50		ug/L			10/17/18 02:53	1
Dichlorobromomethane	ND		0.50		ug/L			10/17/18 02:53	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/17/18 02:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/17/18 02:53	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/17/18 02:53	1
Tetrachloroethene	ND		0.50		ug/L			10/17/18 02:53	1
Chlorodibromomethane	ND		0.50		ug/L			10/17/18 02:53	1
Chlorobenzene	ND		0.50		ug/L			10/17/18 02:53	1
Bromoform	ND		1.0		ug/L			10/17/18 02:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/17/18 02:53	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/17/18 02:53	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/17/18 02:53	1
1,2-Dichlorobenzene	**0.98**		0.50		ug/L			10/17/18 02:53	1
Chloromethane	ND	*	1.0		ug/L			10/17/18 02:53	1
Bromomethane	ND		1.0		ug/L			10/17/18 02:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/17/18 02:53	1
EDB	ND		0.50		ug/L			10/17/18 02:53	1
1,2,4-Trichlorobenzene	ND	*	1.0		ug/L			10/17/18 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/17/18 02:53*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/17/18 21:21*	*10*
4-Bromofluorobenzene	*76*		*67 - 130*		*10/17/18 02:53*	*1*
4-Bromofluorobenzene	*84*		*67 - 130*		*10/17/18 21:21*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*10/17/18 02:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*10/17/18 21:21*	*10*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T17B-101118

Lab Sample ID: 720-89095-5
Date Collected: 10/11/18 12:00
Date Received: 10/11/18 18:30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0		ug/L			10/16/18 22:43	10
1,1-Dichloroethane	ND		5.0		ug/L			10/16/18 22:43	10
Dichlorodifluoromethane	ND		5.0		ug/L			10/16/18 22:43	10
Vinyl chloride	ND		5.0		ug/L			10/16/18 22:43	10
Chloroethane	ND		10		ug/L			10/16/18 22:43	10
Trichlorofluoromethane	ND		10		ug/L			10/16/18 22:43	10
Methylene Chloride	ND		50		ug/L			10/16/18 22:43	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/16/18 22:43	10
cis-1,2-Dichloroethene	**300**		5.0		ug/L			10/16/18 22:43	10
Chloroform	ND		10		ug/L			10/16/18 22:43	10
1,1,1-Trichloroethane	ND		5.0		ug/L			10/16/18 22:43	10
Carbon tetrachloride	ND		5.0		ug/L			10/16/18 22:43	10
1,2-Dichloroethane	ND		5.0		ug/L			10/16/18 22:43	10
Trichloroethene	**170**		5.0		ug/L			10/16/18 22:43	10
1,2-Dichloropropane	ND		5.0		ug/L			10/16/18 22:43	10
Dichlorobromomethane	ND		5.0		ug/L			10/16/18 22:43	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			10/16/18 22:43	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			10/16/18 22:43	10
1,1,2-Trichloroethane	ND		5.0		ug/L			10/16/18 22:43	10
Tetrachloroethene	ND		5.0		ug/L			10/16/18 22:43	10
Chlorodibromomethane	ND		5.0		ug/L			10/16/18 22:43	10
Chlorobenzene	ND		5.0		ug/L			10/16/18 22:43	10
Bromoform	ND		10		ug/L			10/16/18 22:43	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/16/18 22:43	10
1,3-Dichlorobenzene	ND		5.0		ug/L			10/16/18 22:43	10
1,4-Dichlorobenzene	ND		5.0		ug/L			10/16/18 22:43	10
1,2-Dichlorobenzene	ND		5.0		ug/L			10/16/18 22:43	10
Chloromethane	ND		10		ug/L			10/16/18 22:43	10
Bromomethane	ND		10		ug/L			10/16/18 22:43	10
1,1,2-Trichloro-1,2,2-trifluoroethane	**7.4**		5.0		ug/L			10/16/18 22:43	10
EDB	ND		5.0		ug/L			10/16/18 22:43	10
1,2,4-Trichlorobenzene	ND		10		ug/L			10/16/18 22:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/18 22:43*	*10*
4-Bromofluorobenzene	*87*		*67 - 130*		*10/16/18 22:43*	*10*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*10/16/18 22:43*	*10*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T5B-101118-1

Lab Sample ID: 720-89095-6
Date Collected: 10/11/18 13:10
Matrix: Water
Date Received: 10/11/18 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		25		ug/L			10/16/18 23:12	50
1,1-Dichloroethane	ND		25		ug/L			10/16/18 23:12	50
Dichlorodifluoromethane	ND		25		ug/L			10/16/18 23:12	50
Vinyl chloride	ND		25		ug/L			10/16/18 23:12	50
Chloroethane	ND		50		ug/L			10/16/18 23:12	50
Trichlorofluoromethane	ND		50		ug/L			10/16/18 23:12	50
Methylene Chloride	ND		250		ug/L			10/16/18 23:12	50
trans-1,2-Dichloroethene	ND		25		ug/L			10/16/18 23:12	50
cis-1,2-Dichloroethene	**39**		25		ug/L			10/16/18 23:12	50
Chloroform	ND		50		ug/L			10/16/18 23:12	50
1,1,1-Trichloroethane	ND		25		ug/L			10/16/18 23:12	50
Carbon tetrachloride	ND		25		ug/L			10/16/18 23:12	50
1,2-Dichloroethane	ND		25		ug/L			10/16/18 23:12	50
Trichloroethene	**1200**		25		ug/L			10/16/18 23:12	50
1,2-Dichloropropane	ND		25		ug/L			10/16/18 23:12	50
Dichlorobromomethane	ND		25		ug/L			10/16/18 23:12	50
trans-1,3-Dichloropropene	ND		25		ug/L			10/16/18 23:12	50
cis-1,3-Dichloropropene	ND		25		ug/L			10/16/18 23:12	50
1,1,2-Trichloroethane	ND		25		ug/L			10/16/18 23:12	50
Tetrachloroethene	ND		25		ug/L			10/16/18 23:12	50
Chlorodibromomethane	ND		25		ug/L			10/16/18 23:12	50
Chlorobenzene	ND		25		ug/L			10/16/18 23:12	50
Bromoform	ND		50		ug/L			10/16/18 23:12	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/16/18 23:12	50
1,3-Dichlorobenzene	ND		25		ug/L			10/16/18 23:12	50
1,4-Dichlorobenzene	ND		25		ug/L			10/16/18 23:12	50
1,2-Dichlorobenzene	ND		25		ug/L			10/16/18 23:12	50
Chloromethane	ND		50		ug/L			10/16/18 23:12	50
Bromomethane	ND		50		ug/L			10/16/18 23:12	50
1,1,2-Trichloro-1,2,2-trifluoroethane	**120**		25		ug/L			10/16/18 23:12	50
EDB	ND		25		ug/L			10/16/18 23:12	50
1,2,4-Trichlorobenzene	ND		50		ug/L			10/16/18 23:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/16/18 23:12*	*50*
4-Bromofluorobenzene	*88*		*67 - 130*		*10/16/18 23:12*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*10/16/18 23:12*	*50*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T5B-101118-2
Date Collected: 10/11/18 13:15
Date Received: 10/11/18 18:30

Lab Sample ID: 720-89095-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		50		ug/L			10/16/18 23:41	100
1,1-Dichloroethane	ND		50		ug/L			10/16/18 23:41	100
Dichlorodifluoromethane	ND		50		ug/L			10/16/18 23:41	100
Vinyl chloride	ND		50		ug/L			10/16/18 23:41	100
Chloroethane	ND		100		ug/L			10/16/18 23:41	100
Trichlorofluoromethane	ND		100		ug/L			10/16/18 23:41	100
Methylene Chloride	ND		500		ug/L			10/16/18 23:41	100
trans-1,2-Dichloroethene	ND		50		ug/L			10/16/18 23:41	100
cis-1,2-Dichloroethene	ND		50		ug/L			10/16/18 23:41	100
Chloroform	ND		100		ug/L			10/16/18 23:41	100
1,1,1-Trichloroethane	ND		50		ug/L			10/16/18 23:41	100
Carbon tetrachloride	ND		50		ug/L			10/16/18 23:41	100
1,2-Dichloroethane	ND		50		ug/L			10/16/18 23:41	100
Trichloroethene	**1200**		50		ug/L			10/16/18 23:41	100
1,2-Dichloropropane	ND		50		ug/L			10/16/18 23:41	100
Dichlorobromomethane	ND		50		ug/L			10/16/18 23:41	100
trans-1,3-Dichloropropene	ND		50		ug/L			10/16/18 23:41	100
cis-1,3-Dichloropropene	ND		50		ug/L			10/16/18 23:41	100
1,1,2-Trichloroethane	ND		50		ug/L			10/16/18 23:41	100
Tetrachloroethene	ND		50		ug/L			10/16/18 23:41	100
Chlorodibromomethane	ND		50		ug/L			10/16/18 23:41	100
Chlorobenzene	ND		50		ug/L			10/16/18 23:41	100
Bromoform	ND		100		ug/L			10/16/18 23:41	100
1,1,2,2-Tetrachloroethane	ND		50		ug/L			10/16/18 23:41	100
1,3-Dichlorobenzene	ND		50		ug/L			10/16/18 23:41	100
1,4-Dichlorobenzene	ND		50		ug/L			10/16/18 23:41	100
1,2-Dichlorobenzene	ND		50		ug/L			10/16/18 23:41	100
Chloromethane	ND		100		ug/L			10/16/18 23:41	100
Bromomethane	ND		100		ug/L			10/16/18 23:41	100
1,1,2-Trichloro-1,2,2-trifluoroethane	**140**		50		ug/L			10/16/18 23:41	100
EDB	ND		50		ug/L			10/16/18 23:41	100
1,2,4-Trichlorobenzene	ND		100		ug/L			10/16/18 23:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/16/18 23:41*	*100*
4-Bromofluorobenzene	*90*		*67 - 130*		*10/16/18 23:41*	*100*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*10/16/18 23:41*	*100*

Client Sample Results

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T10C-101118

Lab Sample ID: 720-89095-8
Date Collected: 10/11/18 15:05
Date Received: 10/11/18 18:30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		25		ug/L			10/17/18 00:10	50
1,1-Dichloroethane	ND		25		ug/L			10/17/18 00:10	50
Dichlorodifluoromethane	ND		25		ug/L			10/17/18 00:10	50
Vinyl chloride	**38**		25		ug/L			10/17/18 00:10	50
Chloroethane	ND		50		ug/L			10/17/18 00:10	50
Trichlorofluoromethane	ND		50		ug/L			10/17/18 00:10	50
Methylene Chloride	ND		250		ug/L			10/17/18 00:10	50
trans-1,2-Dichloroethene	ND		25		ug/L			10/17/18 00:10	50
cis-1,2-Dichloroethene	**890**		25		ug/L			10/17/18 00:10	50
Chloroform	ND		50		ug/L			10/17/18 00:10	50
1,1,1-Trichloroethane	ND		25		ug/L			10/17/18 00:10	50
Carbon tetrachloride	ND		25		ug/L			10/17/18 00:10	50
1,2-Dichloroethane	ND		25		ug/L			10/17/18 00:10	50
Trichloroethene	**260**		25		ug/L			10/17/18 00:10	50
1,2-Dichloropropane	ND		25		ug/L			10/17/18 00:10	50
Dichlorobromomethane	ND		25		ug/L			10/17/18 00:10	50
trans-1,3-Dichloropropene	ND		25		ug/L			10/17/18 00:10	50
cis-1,3-Dichloropropene	ND		25		ug/L			10/17/18 00:10	50
1,1,2-Trichloroethane	ND		25		ug/L			10/17/18 00:10	50
Tetrachloroethene	ND		25		ug/L			10/17/18 00:10	50
Chlorodibromomethane	ND		25		ug/L			10/17/18 00:10	50
Chlorobenzene	ND		25		ug/L			10/17/18 00:10	50
Bromoform	ND		50		ug/L			10/17/18 00:10	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/17/18 00:10	50
1,3-Dichlorobenzene	ND		25		ug/L			10/17/18 00:10	50
1,4-Dichlorobenzene	ND		25		ug/L			10/17/18 00:10	50
1,2-Dichlorobenzene	ND		25		ug/L			10/17/18 00:10	50
Chloromethane	ND		50		ug/L			10/17/18 00:10	50
Bromomethane	ND		50		ug/L			10/17/18 00:10	50
1,1,2-Trichloro-1,2,2-trifluoroethane	**140**		25		ug/L			10/17/18 00:10	50
EDB	ND		25		ug/L			10/17/18 00:10	50
1,2,4-Trichlorobenzene	ND		50		ug/L			10/17/18 00:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/17/18 00:10*	*50*
4-Bromofluorobenzene	*86*		*67 - 130*		*10/17/18 00:10*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*10/17/18 00:10*	*50*

Surrogate Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TOL (70-130)	BFB (67-130)	DCA (72-130)
720-89095-1	TRIPBLANK-J6038-101118	96	98	120
720-89095-2	J6038-T22B-101118	100	90	110
720-89095-3	J6038-T24B-101118	104	93	105
720-89095-4	J6038-T9B-101118	93	76	110
720-89095-4	J6038-T9B-101118	96	84	112
720-89095-5	J6038-T17B-101118	100	87	104
720-89095-6	J6038-T5B-101118-1	103	88	101
720-89095-7	J6038-T5B-101118-2	103	90	107
720-89095-8	J6038-T10C-101118	103	86	100
LCS 720-253548/5	Lab Control Sample	102	99	122
LCS 720-253550/5	Lab Control Sample	101	99	98
LCS 720-253558/5	Lab Control Sample	92	101	105
LCS 720-253630/5	Lab Control Sample	113	101	101
LCSD 720-253548/6	Lab Control Sample Dup	101	99	119
LCSD 720-253550/6	Lab Control Sample Dup	103	99	96
LCSD 720-253558/6	Lab Control Sample Dup	99	111	99
LCSD 720-253630/6	Lab Control Sample Dup	101	103	100
MB 720-253548/4	Method Blank	99	97	121
MB 720-253550/4	Method Blank	102	89	101
MB 720-253558/4	Method Blank	94	87	105
MB 720-253630/4	Method Blank	93	83	107

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DCA = 1,2-Dichloroethane-d4 (Surr)

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

Lab Sample ID: MB 720-253548/4
Matrix: Water
Analysis Batch: 253548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			10/16/18 18:42	1
1,1-Dichloroethane	ND		0.50		ug/L			10/16/18 18:42	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/16/18 18:42	1
Vinyl chloride	ND		0.50		ug/L			10/16/18 18:42	1
Chloroethane	ND		1.0		ug/L			10/16/18 18:42	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/18 18:42	1
Methylene Chloride	ND		5.0		ug/L			10/16/18 18:42	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 18:42	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 18:42	1
Chloroform	ND		1.0		ug/L			10/16/18 18:42	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/16/18 18:42	1
Carbon tetrachloride	ND		0.50		ug/L			10/16/18 18:42	1
1,2-Dichloroethane	ND		0.50		ug/L			10/16/18 18:42	1
Trichloroethene	ND		0.50		ug/L			10/16/18 18:42	1
1,2-Dichloropropane	ND		0.50		ug/L			10/16/18 18:42	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/18 18:42	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 18:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 18:42	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/16/18 18:42	1
Tetrachloroethene	ND		0.50		ug/L			10/16/18 18:42	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/18 18:42	1
Chlorobenzene	ND		0.50		ug/L			10/16/18 18:42	1
Bromoform	ND		1.0		ug/L			10/16/18 18:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/18 18:42	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/16/18 18:42	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/16/18 18:42	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/16/18 18:42	1
Chloromethane	ND		1.0		ug/L			10/16/18 18:42	1
Bromomethane	ND		1.0		ug/L			10/16/18 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/16/18 18:42	1
EDB	ND		0.50		ug/L			10/16/18 18:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/18 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/18 18:42*	*1*
4-Bromofluorobenzene	*97*		*67 - 130*		*10/16/18 18:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*72 - 130*		*10/16/18 18:42*	*1*

Lab Sample ID: LCS 720-253548/5
Matrix: Water
Analysis Batch: 253548

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	25.0	23.6		ug/L		94	69 - 119
1,1-Dichloroethane	25.0	23.1		ug/L		92	77 - 119
Dichlorodifluoromethane	25.0	33.2		ug/L		133	21 - 150
Vinyl chloride	25.0	22.6		ug/L		90	58 - 138
Chloroethane	25.0	21.5		ug/L		86	70 - 131

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

Lab Sample ID: LCS 720-253548/5
Matrix: Water
Analysis Batch: 253548

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	31.5		ug/L		126	75 - 141
Methylene Chloride	25.0	22.6		ug/L		90	75 - 117
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	79 - 117
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	77 - 117
Chloroform	25.0	27.6		ug/L		110	82 - 119
1,1,1-Trichloroethane	25.0	30.1		ug/L		120	74 - 130
Carbon tetrachloride	25.0	32.5		ug/L		130	72 - 142
1,2-Dichloroethane	25.0	30.4		ug/L		121	73 - 122
Trichloroethene	25.0	27.3		ug/L		109	80 - 123
1,2-Dichloropropane	25.0	21.8		ug/L		87	79 - 119
Dichlorobromomethane	25.0	29.3		ug/L		117	81 - 130
trans-1,3-Dichloropropene	25.0	28.1		ug/L		112	76 - 122
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	82 - 119
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	80 - 117
Tetrachloroethene	25.0	29.9		ug/L		120	81 - 130
Chlorodibromomethane	25.0	30.6		ug/L		123	77 - 133
Chlorobenzene	25.0	24.5		ug/L		98	76 - 116
Bromoform	25.0	29.4		ug/L		118	75 - 127
1,1,2,2-Tetrachloroethane	25.0	18.5		ug/L		74	70 - 115
1,3-Dichlorobenzene	25.0	24.9		ug/L		99	76 - 116
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	76 - 116
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	77 - 117
Chloromethane	25.0	21.8		ug/L		87	49 - 134
Bromomethane	25.0	26.4		ug/L		106	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.3		ug/L		113	70 - 133
EDB	25.0	25.9		ug/L		104	80 - 121
1,2,4-Trichlorobenzene	25.0	27.3		ug/L		109	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*122*		*72 - 130*

Lab Sample ID: LCSD 720-253548/6
Matrix: Water
Analysis Batch: 253548

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-Dichloroethene	25.0	24.8		ug/L		99	69 - 119	5	20
1,1-Dichloroethane	25.0	23.2		ug/L		93	77 - 119	0	20
Dichlorodifluoromethane	25.0	35.2		ug/L		141	21 - 150	6	20
Vinyl chloride	25.0	24.3		ug/L		97	58 - 138	8	20
Chloroethane	25.0	22.5		ug/L		90	70 - 131	5	20
Trichlorofluoromethane	25.0	31.9		ug/L		128	75 - 141	1	20
Methylene Chloride	25.0	22.7		ug/L		91	75 - 117	0	20
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	79 - 117	3	20
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	77 - 117	1	20

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

Lab Sample ID: LCSD 720-253548/6
Matrix: Water
Analysis Batch: 253548

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
Chloroform	25.0	27.1		ug/L		108	82 - 119	2	20
1,1,1-Trichloroethane	25.0	30.1		ug/L		121	74 - 130	0	20
Carbon tetrachloride	25.0	32.6		ug/L		130	72 - 142	0	20
1,2-Dichloroethane	25.0	29.6		ug/L		118	73 - 122	3	20
Trichloroethene	25.0	27.6		ug/L		110	80 - 123	1	20
1,2-Dichloropropane	25.0	21.7		ug/L		87	79 - 119	0	20
Dichlorobromomethane	25.0	28.6		ug/L		114	81 - 130	2	20
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	76 - 122	0	20
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	82 - 119	1	20
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	80 - 117	0	20
Tetrachloroethene	25.0	30.2		ug/L		121	81 - 130	1	20
Chlorodibromomethane	25.0	30.7		ug/L		123	77 - 133	0	20
Chlorobenzene	25.0	24.4		ug/L		98	76 - 116	0	20
Bromoform	25.0	29.2		ug/L		117	75 - 127	1	20
1,1,2,2-Tetrachloroethane	25.0	18.8		ug/L		75	70 - 115	2	20
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	76 - 116	1	20
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	76 - 116	0	20
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	77 - 117	0	20
Chloromethane	25.0	23.5		ug/L		94	49 - 134	7	20
Bromomethane	25.0	27.7		ug/L		111	70 - 132	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.7		ug/L		123	70 - 133	8	20
EDB	25.0	26.2		ug/L		105	80 - 121	1	20
1,2,4-Trichlorobenzene	25.0	29.1		ug/L		116	78 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 130*

Lab Sample ID: MB 720-253550/4
Matrix: Water
Analysis Batch: 253550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			10/16/18 19:22	1
1,1-Dichloroethane	ND		0.50		ug/L			10/16/18 19:22	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/16/18 19:22	1
Vinyl chloride	ND		0.50		ug/L			10/16/18 19:22	1
Chloroethane	ND		1.0		ug/L			10/16/18 19:22	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/18 19:22	1
Methylene Chloride	ND		5.0		ug/L			10/16/18 19:22	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 19:22	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 19:22	1
Chloroform	ND		1.0		ug/L			10/16/18 19:22	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/16/18 19:22	1
Carbon tetrachloride	ND		0.50		ug/L			10/16/18 19:22	1
1,2-Dichloroethane	ND		0.50		ug/L			10/16/18 19:22	1

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

Lab Sample ID: MB 720-253550/4
Matrix: Water
Analysis Batch: 253550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50		ug/L			10/16/18 19:22	1
1,2-Dichloropropane	ND		0.50		ug/L			10/16/18 19:22	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/18 19:22	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 19:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 19:22	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/16/18 19:22	1
Tetrachloroethene	ND		0.50		ug/L			10/16/18 19:22	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/18 19:22	1
Chlorobenzene	ND		0.50		ug/L			10/16/18 19:22	1
Bromoform	ND		1.0		ug/L			10/16/18 19:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/18 19:22	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/16/18 19:22	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/16/18 19:22	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/16/18 19:22	1
Chloromethane	ND		1.0		ug/L			10/16/18 19:22	1
Bromomethane	ND		1.0		ug/L			10/16/18 19:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/16/18 19:22	1
EDB	ND		0.50		ug/L			10/16/18 19:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/18 19:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/16/18 19:22*	*1*
4-Bromofluorobenzene	*89*		*67 - 130*		*10/16/18 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*10/16/18 19:22*	*1*

Lab Sample ID: LCS 720-253550/5
Matrix: Water
Analysis Batch: 253550

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	25.0	26.2		ug/L		105	69 - 119
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 119
Dichlorodifluoromethane	25.0	26.8		ug/L		107	21 - 150
Vinyl chloride	25.0	25.6		ug/L		102	58 - 138
Chloroethane	25.0	27.6		ug/L		110	70 - 131
Trichlorofluoromethane	25.0	26.7		ug/L		107	75 - 141
Methylene Chloride	25.0	26.2		ug/L		105	75 - 117
trans-1,2-Dichloroethene	25.0	26.6		ug/L		106	79 - 117
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 117
Chloroform	25.0	24.9		ug/L		100	82 - 119
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	74 - 130
Carbon tetrachloride	25.0	26.1		ug/L		104	72 - 142
1,2-Dichloroethane	25.0	23.2		ug/L		93	73 - 122
Trichloroethene	25.0	26.1		ug/L		104	80 - 123
1,2-Dichloropropane	25.0	25.2		ug/L		101	79 - 119
Dichlorobromomethane	25.0	24.3		ug/L		97	81 - 130
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	76 - 122
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	82 - 119

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

Lab Sample ID: LCS 720-253550/5
Matrix: Water
Analysis Batch: 253550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	80 - 117
Tetrachloroethene	25.0	26.2		ug/L		105	81 - 130
Chlorodibromomethane	25.0	23.5		ug/L		94	77 - 133
Chlorobenzene	25.0	24.8		ug/L		99	76 - 116
Bromoform	25.0	23.8		ug/L		95	75 - 127
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 115
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	76 - 116
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	76 - 116
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 117
Chloromethane	25.0	25.1		ug/L		100	49 - 134
Bromomethane	25.0	26.2		ug/L		105	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.1		ug/L		116	70 - 133
EDB	25.0	24.6		ug/L		98	80 - 121
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*

Lab Sample ID: LCSD 720-253550/6
Matrix: Water
Analysis Batch: 253550

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-Dichloroethene	25.0	27.3		ug/L		109	69 - 119	4	20
1,1-Dichloroethane	25.0	26.0		ug/L		104	77 - 119	1	20
Dichlorodifluoromethane	25.0	29.9		ug/L		120	21 - 150	11	20
Vinyl chloride	25.0	27.9		ug/L		112	58 - 138	8	20
Chloroethane	25.0	28.8		ug/L		115	70 - 131	4	20
Trichlorofluoromethane	25.0	28.0		ug/L		112	75 - 141	5	20
Methylene Chloride	25.0	27.6		ug/L		110	75 - 117	5	20
trans-1,2-Dichloroethene	25.0	26.6		ug/L		107	79 - 117	0	20
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	77 - 117	1	20
Chloroform	25.0	24.3		ug/L		97	82 - 119	2	20
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	74 - 130	1	20
Carbon tetrachloride	25.0	27.4		ug/L		110	72 - 142	5	20
1,2-Dichloroethane	25.0	23.3		ug/L		93	73 - 122	1	20
Trichloroethene	25.0	26.4		ug/L		106	80 - 123	1	20
1,2-Dichloropropane	25.0	25.3		ug/L		101	79 - 119	0	20
Dichlorobromomethane	25.0	24.2		ug/L		97	81 - 130	1	20
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	76 - 122	6	20
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	82 - 119	2	20
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	80 - 117	8	20
Tetrachloroethene	25.0	27.1		ug/L		108	81 - 130	3	20
Chlorodibromomethane	25.0	24.7		ug/L		99	77 - 133	5	20
Chlorobenzene	25.0	24.3		ug/L		97	76 - 116	2	20

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

Lab Sample ID: LCSD 720-253550/6
Matrix: Water
Analysis Batch: 253550

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
Bromoform	25.0	24.4		ug/L		97	75 - 127	3	20
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 115	1	20
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	76 - 116	0	20
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	76 - 116	1	20
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	77 - 117	1	20
Chloromethane	25.0	25.8		ug/L		103	49 - 134	3	20
Bromomethane	25.0	27.4		ug/L		110	70 - 132	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.7		ug/L		123	70 - 133	5	20
EDB	25.0	26.1		ug/L		105	80 - 121	6	20
1,2,4-Trichlorobenzene	25.0	28.0		ug/L		112	78 - 120	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*

Lab Sample ID: MB 720-253558/4
Matrix: Water
Analysis Batch: 253558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			10/16/18 20:39	1
1,1-Dichloroethane	ND		0.50		ug/L			10/16/18 20:39	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/16/18 20:39	1
Vinyl chloride	ND		0.50		ug/L			10/16/18 20:39	1
Chloroethane	ND		1.0		ug/L			10/16/18 20:39	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/18 20:39	1
Methylene Chloride	ND		5.0		ug/L			10/16/18 20:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 20:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/16/18 20:39	1
Chloroform	ND		1.0		ug/L			10/16/18 20:39	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/16/18 20:39	1
Carbon tetrachloride	ND		0.50		ug/L			10/16/18 20:39	1
1,2-Dichloroethane	ND		0.50		ug/L			10/16/18 20:39	1
Trichloroethene	ND		0.50		ug/L			10/16/18 20:39	1
1,2-Dichloropropane	ND		0.50		ug/L			10/16/18 20:39	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/18 20:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 20:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/16/18 20:39	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/16/18 20:39	1
Tetrachloroethene	ND		0.50		ug/L			10/16/18 20:39	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/18 20:39	1
Chlorobenzene	ND		0.50		ug/L			10/16/18 20:39	1
Bromoform	ND		1.0		ug/L			10/16/18 20:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/18 20:39	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/16/18 20:39	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/16/18 20:39	1

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

Lab Sample ID: MB 720-253558/4
Matrix: Water
Analysis Batch: 253558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50		ug/L			10/16/18 20:39	1
Chloromethane	ND		1.0		ug/L			10/16/18 20:39	1
Bromomethane	ND		1.0		ug/L			10/16/18 20:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/16/18 20:39	1
EDB	ND		0.50		ug/L			10/16/18 20:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/18 20:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/16/18 20:39*	*1*
4-Bromofluorobenzene	*87*		*67 - 130*		*10/16/18 20:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*10/16/18 20:39*	*1*

Lab Sample ID: LCS 720-253558/5
Matrix: Water
Analysis Batch: 253558

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	25.0	22.4		ug/L		89	69 - 119
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 119
Dichlorodifluoromethane	25.0	20.5		ug/L		82	21 - 150
Vinyl chloride	25.0	18.7		ug/L		75	58 - 138
Chloroethane	25.0	19.4		ug/L		78	70 - 131
Trichlorofluoromethane	25.0	25.0		ug/L		100	75 - 141
Methylene Chloride	25.0	24.8		ug/L		99	75 - 117
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	79 - 117
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	77 - 117
Chloroform	25.0	25.9		ug/L		104	82 - 119
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	74 - 130
Carbon tetrachloride	25.0	24.5		ug/L		98	72 - 142
1,2-Dichloroethane	25.0	25.3		ug/L		101	73 - 122
Trichloroethene	25.0	23.1		ug/L		93	80 - 123
1,2-Dichloropropane	25.0	26.3		ug/L		105	79 - 119
Dichlorobromomethane	25.0	24.7		ug/L		99	81 - 130
trans-1,3-Dichloropropene	25.0	23.8		ug/L		95	76 - 122
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	82 - 119
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	80 - 117
Tetrachloroethene	25.0	22.3		ug/L		89	81 - 130
Chlorodibromomethane	25.0	24.1		ug/L		96	77 - 133
Chlorobenzene	25.0	26.3		ug/L		105	76 - 116
Bromoform	25.0	24.6		ug/L		98	75 - 127
1,1,2,2-Tetrachloroethane	25.0	23.5		ug/L		94	70 - 115
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	76 - 116
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	76 - 116
1,2-Dichlorobenzene	25.0	24.1		ug/L		97	77 - 117
Chloromethane	25.0	21.3		ug/L		85	49 - 134
Bromomethane	25.0	18.6		ug/L		74	70 - 132
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	22.8		ug/L		91	70 - 133

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

Lab Sample ID: LCS 720-253558/5
Matrix: Water
Analysis Batch: 253558

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
EDB	25.0	23.0		ug/L		92	80 - 121
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*

Lab Sample ID: LCSD 720-253558/6
Matrix: Water
Analysis Batch: 253558

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-Dichloroethene	25.0	23.5		ug/L		94	69 - 119	5	20
1,1-Dichloroethane	25.0	26.5		ug/L		106	77 - 119	2	20
Dichlorodifluoromethane	25.0	24.6		ug/L		98	21 - 150	18	20
Vinyl chloride	25.0	24.6	*	ug/L		98	58 - 138	27	20
Chloroethane	25.0	23.5		ug/L		94	70 - 131	19	20
Trichlorofluoromethane	25.0	30.9	*	ug/L		124	75 - 141	21	20
Methylene Chloride	25.0	24.5		ug/L		98	75 - 117	1	20
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	79 - 117	3	20
cis-1,2-Dichloroethene	25.0	26.8		ug/L		107	77 - 117	1	20
Chloroform	25.0	25.9		ug/L		103	82 - 119	0	20
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	74 - 130	2	20
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 142	1	20
1,2-Dichloroethane	25.0	24.6		ug/L		98	73 - 122	3	20
Trichloroethene	25.0	24.6		ug/L		98	80 - 123	6	20
1,2-Dichloropropane	25.0	27.7		ug/L		111	79 - 119	5	20
Dichlorobromomethane	25.0	25.3		ug/L		101	81 - 130	2	20
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	76 - 122	3	20
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	82 - 119	7	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	80 - 117	0	20
Tetrachloroethene	25.0	25.1		ug/L		100	81 - 130	12	20
Chlorodibromomethane	25.0	24.0		ug/L		96	77 - 133	0	20
Chlorobenzene	25.0	26.0		ug/L		104	76 - 116	1	20
Bromoform	25.0	22.2		ug/L		89	75 - 127	10	20
1,1,2,2-Tetrachloroethane	25.0	21.2		ug/L		85	70 - 115	10	20
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	76 - 116	1	20
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	76 - 116	7	20
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 117	1	20
Chloromethane	25.0	27.4	*	ug/L		110	49 - 134	25	20
Bromomethane	25.0	22.2		ug/L		89	70 - 132	18	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	22.9		ug/L		92	70 - 133	1	20
EDB	25.0	23.2		ug/L		93	80 - 121	1	20
1,2,4-Trichlorobenzene	25.0	30.3	*	ug/L		121	78 - 120	13	20

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

Lab Sample ID: LCSD 720-253558/6
Matrix: Water
Analysis Batch: 253558

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene	*111*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*

Lab Sample ID: MB 720-253630/4
Matrix: Water
Analysis Batch: 253630

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/17/18 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/17/18 18:57*	*1*
4-Bromofluorobenzene	*83*		*67 - 130*		*10/17/18 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*10/17/18 18:57*	*1*

Lab Sample ID: LCS 720-253630/5
Matrix: Water
Analysis Batch: 253630

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	77 - 117

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*70 - 130*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*

Lab Sample ID: LCSD 720-253630/6
Matrix: Water
Analysis Batch: 253630

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-1,2-Dichloroethene	25.0	27.0		ug/L		108	77 - 117	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*

QC Association Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

GC/MS VOA

Analysis Batch: 253548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89095-1	TRIPBLANK-J6038-101118	Total/NA	Water	8260B	
MB 720-253548/4	Method Blank	Total/NA	Water	8260B	
LCS 720-253548/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-253548/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 253550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89095-2	J6038-T22B-101118	Total/NA	Water	8260B	
720-89095-3	J6038-T24B-101118	Total/NA	Water	8260B	
720-89095-5	J6038-T17B-101118	Total/NA	Water	8260B	
720-89095-6	J6038-T5B-101118-1	Total/NA	Water	8260B	
720-89095-7	J6038-T5B-101118-2	Total/NA	Water	8260B	
720-89095-8	J6038-T10C-101118	Total/NA	Water	8260B	
MB 720-253550/4	Method Blank	Total/NA	Water	8260B	
LCS 720-253550/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-253550/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 253558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89095-4	J6038-T9B-101118	Total/NA	Water	8260B	
MB 720-253558/4	Method Blank	Total/NA	Water	8260B	
LCS 720-253558/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-253558/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 253630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-89095-4	J6038-T9B-101118	Total/NA	Water	8260B	
MB 720-253630/4	Method Blank	Total/NA	Water	8260B	
LCS 720-253630/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-253630/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: TRIPBLANK-J6038-101118 — Lab Sample ID: 720-89095-1

Date Collected: 10/11/18 07:30
Date Received: 10/11/18 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	253548	10/16/18 21:47	JRM	TAL PLS

Client Sample ID: J6038-T22B-101118 — Lab Sample ID: 720-89095-2

Date Collected: 10/11/18 08:15
Date Received: 10/11/18 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	253550	10/16/18 21:45	JRM	TAL PLS

Client Sample ID: J6038-T24B-101118 — Lab Sample ID: 720-89095-3

Date Collected: 10/11/18 09:25
Date Received: 10/11/18 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	253550	10/16/18 22:14	JRM	TAL PLS

Client Sample ID: J6038-T9B-101118 — Lab Sample ID: 720-89095-4

Date Collected: 10/11/18 11:00
Date Received: 10/11/18 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	253558	10/17/18 02:53	JRM	TAL PLS
Total/NA	Analysis	8260B		10	253630	10/17/18 21:21	JRM	TAL PLS

Client Sample ID: J6038-T17B-101118 — Lab Sample ID: 720-89095-5

Date Collected: 10/11/18 12:00
Date Received: 10/11/18 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	253550	10/16/18 22:43	JRM	TAL PLS

Client Sample ID: J6038-T5B-101118-1 — Lab Sample ID: 720-89095-6

Date Collected: 10/11/18 13:10
Date Received: 10/11/18 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	253550	10/16/18 23:12	JRM	TAL PLS

Lab Chronicle

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Client Sample ID: J6038-T5B-101118-2

Lab Sample ID: 720-89095-7

Date Collected: 10/11/18 13:15
Date Received: 10/11/18 18:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	253550	10/16/18 23:41	JRM	TAL PLS

Client Sample ID: J6038-T10C-101118

Lab Sample ID: 720-89095-8

Date Collected: 10/11/18 15:05
Date Received: 10/11/18 18:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	253550	10/17/18 00:10	JRM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Laboratory: TestAmerica Pleasanton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20
USDA	Federal		P330-17-00380	12-11-20

Method Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: AECOM
Project/Site: Former TRW Microwave

TestAmerica Job ID: 720-89095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-89095-1	TRIPBLANK-J6038-101118	Water	10/11/18 07:30	10/11/18 18:30
720-89095-2	J6038-T22B-101118	Water	10/11/18 08:15	10/11/18 18:30
720-89095-3	J6038-T24B-101118	Water	10/11/18 09:25	10/11/18 18:30
720-89095-4	J6038-T9B-101118	Water	10/11/18 11:00	10/11/18 18:30
720-89095-5	J6038-T17B-101118	Water	10/11/18 12:00	10/11/18 18:30
720-89095-6	J6038-T5B-101118-1	Water	10/11/18 13:10	10/11/18 18:30
720-89095-7	J6038-T5B-101118-2	Water	10/11/18 13:15	10/11/18 18:30
720-89095-8	J6038-T10C-101118	Water	10/11/18 15:05	10/11/18 18:30

BLAINE TECH SERVICES

720-89095

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

CHAIN OF CUSTODY — BTS # 181008-DL1

CLIENT: AECOM

SITE: Former TRW Microwave
825 Stewart Dr., Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT: HVOC's (8260B)

LAB: Test An...

ALL ANALYSES MUST MEET SPECIFIC... LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER #186019

SPECIAL INSTRUCTIONS

Invoice to: NGC

Attn:

Report to: AECOM - Holly Holbrook

714.689.7215 - Holly.Holbrook@aecom.com

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	HVOC's (8260B)						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
TripBlank-J6038-101118	10/11/18	0730	W	3	HCL VOA		X									1
J6038-T22B-101118		0815	W	3			X									2
J6038-T24B 101118		0925	W	3			X									3
J6038-T9B-101118		1100	W	3			X									4
J6038-T17B-101118		1200	W	3			X									5
J6038-T5B-101118-1		1310	W	3			X									6
J6038-T5B-101118-2		1315	W	3			X									7
J6038-T10C-101118		1525	W	3			X									8
																1.30

SAMPLING COMPLETED: DATE 10/11/18 TIME 1520

SAMPLING PERFORMED BY: Vinn Dooley

RESULTS NEEDED NO LATER THAN: Standard TAT 10-11-18

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/11/18	1525	TAPLS	10-11-18	1525
TA PLS	10-11-18	~~1830~~ 18:30	TA PLS	10/11/18	1830 ~~1630~~

SHIPPED VIA | DATE SENT | TIME SENT | COO...

720-89095 Chain of Custody

Login Sample Receipt Checklist

Client: AECOM

Job Number: 720-89095-1

Login Number: 89095
List Number: 1
Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-90321-1
Client Project/Site: TRW Microwave

For:
AECOM Technical Services Inc.
999 Town & Country Road
Ist Floor
Orange, California 92868

Attn: Ms. Holly Holbrook

Authorized for release by:
12/21/2018 11:04:23 AM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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
Surrogate Summary 14
QC Sample Results 15
QC Association Summary 35
Lab Chronicle 36
Certification Summary 37
Method Summary 38
Sample Summary 39
Chain of Custody 40
Receipt Checklists 41

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Job ID: 720-90321-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-90321-1

Comments
No additional comments.

Receipt
The samples were received on 12/14/2018 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 720-257144 recovered outside control limits for the following analytes: 1,2,4-Trimethylbenzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-TRIPBLANK-121418 — Lab Sample ID: 720-90321-1

No Detections.

Client Sample ID: J6038-T-25BD-121418 — Lab Sample ID: 720-90321-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	77		5.0		ug/L	10		8260B	Total/NA
Tetrachloroethene	8.2		5.0		ug/L	10		8260B	Total/NA
Trichloroethene	450		5.0		ug/L	10		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1		5.0		ug/L	10		8260B	Total/NA

Client Sample ID: J6038-T-25BS-121418 — Lab Sample ID: 720-90321-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	270		5.0		ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	6.6		5.0		ug/L	10		8260B	Total/NA
Trichloroethene	350		5.0		ug/L	10		8260B	Total/NA

Client Sample ID: J6038-EB-121418 — Lab Sample ID: 720-90321-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-TRIPBLANK-121418

Lab Sample ID: 720-90321-1

Date Collected: 12/14/18 09:00
Date Received: 12/14/18 16:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/17/18 17:20	1
Acetone	ND		50		ug/L			12/17/18 17:20	1
Benzene	ND		0.50		ug/L			12/17/18 17:20	1
Dichlorobromomethane	ND		0.50		ug/L			12/17/18 17:20	1
Bromobenzene	ND		1.0		ug/L			12/17/18 17:20	1
Chlorobromomethane	ND		1.0		ug/L			12/17/18 17:20	1
Bromoform	ND		1.0		ug/L			12/17/18 17:20	1
Bromomethane	ND		1.0		ug/L			12/17/18 17:20	1
2-Butanone (MEK)	ND		50		ug/L			12/17/18 17:20	1
n-Butylbenzene	ND		1.0		ug/L			12/17/18 17:20	1
sec-Butylbenzene	ND		1.0		ug/L			12/17/18 17:20	1
tert-Butylbenzene	ND		1.0		ug/L			12/17/18 17:20	1
Carbon disulfide	ND		5.0		ug/L			12/17/18 17:20	1
Carbon tetrachloride	ND		0.50		ug/L			12/17/18 17:20	1
Chlorobenzene	ND		0.50		ug/L			12/17/18 17:20	1
Chloroethane	ND		1.0		ug/L			12/17/18 17:20	1
Chloroform	ND		1.0		ug/L			12/17/18 17:20	1
Chloromethane	ND		1.0		ug/L			12/17/18 17:20	1
2-Chlorotoluene	ND		0.50		ug/L			12/17/18 17:20	1
4-Chlorotoluene	ND		0.50		ug/L			12/17/18 17:20	1
Chlorodibromomethane	ND		0.50		ug/L			12/17/18 17:20	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/17/18 17:20	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/17/18 17:20	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/17/18 17:20	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/18 17:20	1
1,1-Dichloropropene	ND		0.50		ug/L			12/17/18 17:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/18 17:20	1
Ethylene Dibromide	ND		0.50		ug/L			12/17/18 17:20	1
Dibromomethane	ND		0.50		ug/L			12/17/18 17:20	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/17/18 17:20	1
1,1-Dichloroethane	ND		0.50		ug/L			12/17/18 17:20	1
1,2-Dichloroethane	ND		0.50		ug/L			12/17/18 17:20	1
1,1-Dichloroethene	ND		0.50		ug/L			12/17/18 17:20	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 17:20	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 17:20	1
1,2-Dichloropropane	ND		0.50		ug/L			12/17/18 17:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 17:20	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 17:20	1
Ethylbenzene	ND		0.50		ug/L			12/17/18 17:20	1
Hexachlorobutadiene	ND		1.0		ug/L			12/17/18 17:20	1
2-Hexanone	ND		50		ug/L			12/17/18 17:20	1
Isopropylbenzene	ND		0.50		ug/L			12/17/18 17:20	1
4-Isopropyltoluene	ND		1.0		ug/L			12/17/18 17:20	1
Methylene Chloride	ND		5.0		ug/L			12/17/18 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/17/18 17:20	1
Naphthalene	ND		1.0		ug/L			12/17/18 17:20	1
N-Propylbenzene	ND		1.0		ug/L			12/17/18 17:20	1
Styrene	ND		0.50		ug/L			12/17/18 17:20	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 17:20	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-TRIPBLANK-121418

Lab Sample ID: 720-90321-1

Date Collected: 12/14/18 09:00
Date Received: 12/14/18 16:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 17:20	1
Tetrachloroethene	ND		0.50		ug/L			12/17/18 17:20	1
Toluene	ND		0.50		ug/L			12/17/18 17:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/17/18 17:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/18 17:20	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/17/18 17:20	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/17/18 17:20	1
Trichloroethene	ND		0.50		ug/L			12/17/18 17:20	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/18 17:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/18 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/17/18 17:20	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/17/18 17:20	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/17/18 17:20	1
Vinyl acetate	ND		10		ug/L			12/17/18 17:20	1
Vinyl chloride	ND		0.50		ug/L			12/17/18 17:20	1
Xylenes, Total	ND		0.50		ug/L			12/17/18 17:20	1
2,2-Dichloropropane	ND		0.50		ug/L			12/17/18 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*67 - 130*		*12/17/18 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*12/17/18 17:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/17/18 17:20*	*1*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-T-25BD-121418
Date Collected: 12/14/18 09:27
Date Received: 12/14/18 16:30

Lab Sample ID: 720-90321-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/L			12/18/18 13:42	10
Acetone	ND		500		ug/L			12/18/18 13:42	10
Benzene	ND		5.0		ug/L			12/18/18 13:42	10
Dichlorobromomethane	ND		5.0		ug/L			12/18/18 13:42	10
Bromobenzene	ND		10		ug/L			12/18/18 13:42	10
Chlorobromomethane	ND		10		ug/L			12/18/18 13:42	10
Bromoform	ND		10		ug/L			12/18/18 13:42	10
Bromomethane	ND		10		ug/L			12/18/18 13:42	10
2-Butanone (MEK)	ND		500		ug/L			12/18/18 13:42	10
n-Butylbenzene	ND		10		ug/L			12/18/18 13:42	10
sec-Butylbenzene	ND		10		ug/L			12/18/18 13:42	10
tert-Butylbenzene	ND		10		ug/L			12/18/18 13:42	10
Carbon disulfide	ND		50		ug/L			12/18/18 13:42	10
Carbon tetrachloride	ND		5.0		ug/L			12/18/18 13:42	10
Chlorobenzene	ND		5.0		ug/L			12/18/18 13:42	10
Chloroethane	ND		10		ug/L			12/18/18 13:42	10
Chloroform	ND		10		ug/L			12/18/18 13:42	10
Chloromethane	ND		10		ug/L			12/18/18 13:42	10
2-Chlorotoluene	ND		5.0		ug/L			12/18/18 13:42	10
4-Chlorotoluene	ND		5.0		ug/L			12/18/18 13:42	10
Chlorodibromomethane	ND		5.0		ug/L			12/18/18 13:42	10
1,2-Dichlorobenzene	ND		5.0		ug/L			12/18/18 13:42	10
1,3-Dichlorobenzene	ND		5.0		ug/L			12/18/18 13:42	10
1,4-Dichlorobenzene	ND		5.0		ug/L			12/18/18 13:42	10
1,3-Dichloropropane	ND		10		ug/L			12/18/18 13:42	10
1,1-Dichloropropene	ND		5.0		ug/L			12/18/18 13:42	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			12/18/18 13:42	10
Ethylene Dibromide	ND		5.0		ug/L			12/18/18 13:42	10
Dibromomethane	ND		5.0		ug/L			12/18/18 13:42	10
Dichlorodifluoromethane	ND		5.0		ug/L			12/18/18 13:42	10
1,1-Dichloroethane	ND		5.0		ug/L			12/18/18 13:42	10
1,2-Dichloroethane	ND		5.0		ug/L			12/18/18 13:42	10
1,1-Dichloroethene	ND		5.0		ug/L			12/18/18 13:42	10
cis-1,2-Dichloroethene	**77**		5.0		ug/L			12/18/18 13:42	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			12/18/18 13:42	10
1,2-Dichloropropane	ND		5.0		ug/L			12/18/18 13:42	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			12/18/18 13:42	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			12/18/18 13:42	10
Ethylbenzene	ND		5.0		ug/L			12/18/18 13:42	10
Hexachlorobutadiene	ND		10		ug/L			12/18/18 13:42	10
2-Hexanone	ND		500		ug/L			12/18/18 13:42	10
Isopropylbenzene	ND		5.0		ug/L			12/18/18 13:42	10
4-Isopropyltoluene	ND		10		ug/L			12/18/18 13:42	10
Methylene Chloride	ND		50		ug/L			12/18/18 13:42	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			12/18/18 13:42	10
Naphthalene	ND		10		ug/L			12/18/18 13:42	10
N-Propylbenzene	ND		10		ug/L			12/18/18 13:42	10
Styrene	ND		5.0		ug/L			12/18/18 13:42	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			12/18/18 13:42	10

Client Sample ID: J6038-T-25BD-121418

Lab Sample ID: 720-90321-2

Date Collected: 12/14/18 09:27

Matrix: Water

Date Received: 12/14/18 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			12/18/18 13:42	10
Tetrachloroethene	**8.2**		5.0		ug/L			12/18/18 13:42	10
Toluene	ND		5.0		ug/L			12/18/18 13:42	10
1,2,3-Trichlorobenzene	ND		10		ug/L			12/18/18 13:42	10
1,2,4-Trichlorobenzene	ND		10		ug/L			12/18/18 13:42	10
1,1,1-Trichloroethane	ND		5.0		ug/L			12/18/18 13:42	10
1,1,2-Trichloroethane	ND		5.0		ug/L			12/18/18 13:42	10
Trichloroethene	**450**		5.0		ug/L			12/18/18 13:42	10
Trichlorofluoromethane	ND		10		ug/L			12/18/18 13:42	10
1,2,3-Trichloropropane	ND		10		ug/L			12/18/18 13:42	10
1,1,2-Trichloro-1,2,2-trifluoroethane	**5.1**		5.0		ug/L			12/18/18 13:42	10
1,2,4-Trimethylbenzene	ND	*	5.0		ug/L			12/18/18 13:42	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			12/18/18 13:42	10
Vinyl acetate	ND		100		ug/L			12/18/18 13:42	10
Vinyl chloride	ND		5.0		ug/L			12/18/18 13:42	10
Xylenes, Total	ND		5.0		ug/L			12/18/18 13:42	10
2,2-Dichloropropane	ND		5.0		ug/L			12/18/18 13:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*67 - 130*		*12/18/18 13:42*	*10*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/18/18 13:42*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/18/18 13:42*	*10*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-T-25BS-121418
Date Collected: 12/14/18 10:35
Date Received: 12/14/18 16:30

Lab Sample ID: 720-90321-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/L			12/18/18 13:14	10
Acetone	ND		500		ug/L			12/18/18 13:14	10
Benzene	ND		5.0		ug/L			12/18/18 13:14	10
Dichlorobromomethane	ND		5.0		ug/L			12/18/18 13:14	10
Bromobenzene	ND		10		ug/L			12/18/18 13:14	10
Chlorobromomethane	ND		10		ug/L			12/18/18 13:14	10
Bromoform	ND		10		ug/L			12/18/18 13:14	10
Bromomethane	ND		10		ug/L			12/18/18 13:14	10
2-Butanone (MEK)	ND		500		ug/L			12/18/18 13:14	10
n-Butylbenzene	ND		10		ug/L			12/18/18 13:14	10
sec-Butylbenzene	ND		10		ug/L			12/18/18 13:14	10
tert-Butylbenzene	ND		10		ug/L			12/18/18 13:14	10
Carbon disulfide	ND		50		ug/L			12/18/18 13:14	10
Carbon tetrachloride	ND		5.0		ug/L			12/18/18 13:14	10
Chlorobenzene	ND		5.0		ug/L			12/18/18 13:14	10
Chloroethane	ND		10		ug/L			12/18/18 13:14	10
Chloroform	ND		10		ug/L			12/18/18 13:14	10
Chloromethane	ND		10		ug/L			12/18/18 13:14	10
2-Chlorotoluene	ND		5.0		ug/L			12/18/18 13:14	10
4-Chlorotoluene	ND		5.0		ug/L			12/18/18 13:14	10
Chlorodibromomethane	ND		5.0		ug/L			12/18/18 13:14	10
1,2-Dichlorobenzene	ND		5.0		ug/L			12/18/18 13:14	10
1,3-Dichlorobenzene	ND		5.0		ug/L			12/18/18 13:14	10
1,4-Dichlorobenzene	ND		5.0		ug/L			12/18/18 13:14	10
1,3-Dichloropropane	ND		10		ug/L			12/18/18 13:14	10
1,1-Dichloropropene	ND		5.0		ug/L			12/18/18 13:14	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			12/18/18 13:14	10
Ethylene Dibromide	ND		5.0		ug/L			12/18/18 13:14	10
Dibromomethane	ND		5.0		ug/L			12/18/18 13:14	10
Dichlorodifluoromethane	ND		5.0		ug/L			12/18/18 13:14	10
1,1-Dichloroethane	ND		5.0		ug/L			12/18/18 13:14	10
1,2-Dichloroethane	ND		5.0		ug/L			12/18/18 13:14	10
1,1-Dichloroethene	ND		5.0		ug/L			12/18/18 13:14	10
cis-1,2-Dichloroethene	**270**		5.0		ug/L			12/18/18 13:14	10
trans-1,2-Dichloroethene	**6.6**		5.0		ug/L			12/18/18 13:14	10
1,2-Dichloropropane	ND		5.0		ug/L			12/18/18 13:14	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			12/18/18 13:14	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			12/18/18 13:14	10
Ethylbenzene	ND		5.0		ug/L			12/18/18 13:14	10
Hexachlorobutadiene	ND		10		ug/L			12/18/18 13:14	10
2-Hexanone	ND		500		ug/L			12/18/18 13:14	10
Isopropylbenzene	ND		5.0		ug/L			12/18/18 13:14	10
4-Isopropyltoluene	ND		10		ug/L			12/18/18 13:14	10
Methylene Chloride	ND		50		ug/L			12/18/18 13:14	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			12/18/18 13:14	10
Naphthalene	ND		10		ug/L			12/18/18 13:14	10
N-Propylbenzene	ND		10		ug/L			12/18/18 13:14	10
Styrene	ND		5.0		ug/L			12/18/18 13:14	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			12/18/18 13:14	10

Client Sample ID: J6038-T-25BS-121418

Lab Sample ID: 720-90321-3

Date Collected: 12/14/18 10:35

Matrix: Water

Date Received: 12/14/18 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			12/18/18 13:14	10
Tetrachloroethene	ND		5.0		ug/L			12/18/18 13:14	10
Toluene	ND		5.0		ug/L			12/18/18 13:14	10
1,2,3-Trichlorobenzene	ND		10		ug/L			12/18/18 13:14	10
1,2,4-Trichlorobenzene	ND		10		ug/L			12/18/18 13:14	10
1,1,1-Trichloroethane	ND		5.0		ug/L			12/18/18 13:14	10
1,1,2-Trichloroethane	ND		5.0		ug/L			12/18/18 13:14	10
Trichloroethene	**350**		5.0		ug/L			12/18/18 13:14	10
Trichlorofluoromethane	ND		10		ug/L			12/18/18 13:14	10
1,2,3-Trichloropropane	ND		10		ug/L			12/18/18 13:14	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			12/18/18 13:14	10
1,2,4-Trimethylbenzene	ND	*	5.0		ug/L			12/18/18 13:14	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			12/18/18 13:14	10
Vinyl acetate	ND		100		ug/L			12/18/18 13:14	10
Vinyl chloride	ND		5.0		ug/L			12/18/18 13:14	10
Xylenes, Total	ND		5.0		ug/L			12/18/18 13:14	10
2,2-Dichloropropane	ND		5.0		ug/L			12/18/18 13:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*67 - 130*		*12/18/18 13:14*	*10*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/18/18 13:14*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/18/18 13:14*	*10*

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-EB-121418

Lab Sample ID: 720-90321-4

Date Collected: 12/14/18 10:55
Date Received: 12/14/18 16:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/17/18 16:58	1
Acetone	ND		50		ug/L			12/17/18 16:58	1
Benzene	ND		0.50		ug/L			12/17/18 16:58	1
Dichlorobromomethane	ND		0.50		ug/L			12/17/18 16:58	1
Bromobenzene	ND		1.0		ug/L			12/17/18 16:58	1
Chlorobromomethane	ND		1.0		ug/L			12/17/18 16:58	1
Bromoform	ND		1.0		ug/L			12/17/18 16:58	1
Bromomethane	ND		1.0		ug/L			12/17/18 16:58	1
2-Butanone (MEK)	ND		50		ug/L			12/17/18 16:58	1
n-Butylbenzene	ND		1.0		ug/L			12/17/18 16:58	1
sec-Butylbenzene	ND		1.0		ug/L			12/17/18 16:58	1
tert-Butylbenzene	ND		1.0		ug/L			12/17/18 16:58	1
Carbon disulfide	ND		5.0		ug/L			12/17/18 16:58	1
Carbon tetrachloride	ND		0.50		ug/L			12/17/18 16:58	1
Chlorobenzene	ND		0.50		ug/L			12/17/18 16:58	1
Chloroethane	ND		1.0		ug/L			12/17/18 16:58	1
Chloroform	ND		1.0		ug/L			12/17/18 16:58	1
Chloromethane	ND		1.0		ug/L			12/17/18 16:58	1
2-Chlorotoluene	ND		0.50		ug/L			12/17/18 16:58	1
4-Chlorotoluene	ND		0.50		ug/L			12/17/18 16:58	1
Chlorodibromomethane	ND		0.50		ug/L			12/17/18 16:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/17/18 16:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/17/18 16:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/17/18 16:58	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/18 16:58	1
1,1-Dichloropropene	ND		0.50		ug/L			12/17/18 16:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/18 16:58	1
Ethylene Dibromide	ND		0.50		ug/L			12/17/18 16:58	1
Dibromomethane	ND		0.50		ug/L			12/17/18 16:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/17/18 16:58	1
1,1-Dichloroethane	ND		0.50		ug/L			12/17/18 16:58	1
1,2-Dichloroethane	ND		0.50		ug/L			12/17/18 16:58	1
1,1-Dichloroethene	ND		0.50		ug/L			12/17/18 16:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 16:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 16:58	1
1,2-Dichloropropane	ND		0.50		ug/L			12/17/18 16:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 16:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 16:58	1
Ethylbenzene	ND		0.50		ug/L			12/17/18 16:58	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 12:03	1
2-Hexanone	ND		50		ug/L			12/17/18 16:58	1
Isopropylbenzene	ND		0.50		ug/L			12/17/18 16:58	1
4-Isopropyltoluene	ND		1.0		ug/L			12/17/18 16:58	1
Methylene Chloride	ND		5.0		ug/L			12/17/18 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/17/18 16:58	1
Naphthalene	ND		1.0		ug/L			12/19/18 12:03	1
N-Propylbenzene	ND		1.0		ug/L			12/17/18 16:58	1
Styrene	ND		0.50		ug/L			12/17/18 16:58	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 16:58	1

Client Sample ID: J6038-EB-121418

Lab Sample ID: 720-90321-4

Date Collected: 12/14/18 10:55
Date Received: 12/14/18 16:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 16:58	1
Tetrachloroethene	ND		0.50		ug/L			12/17/18 16:58	1
Toluene	ND		0.50		ug/L			12/17/18 16:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 12:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 12:03	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/17/18 16:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/17/18 16:58	1
Trichloroethene	ND		0.50		ug/L			12/17/18 16:58	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/18 16:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/18 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/17/18 16:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/17/18 16:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/17/18 16:58	1
Vinyl acetate	ND		10		ug/L			12/17/18 16:58	1
Vinyl chloride	ND		0.50		ug/L			12/17/18 16:58	1
Xylenes, Total	ND		0.50		ug/L			12/17/18 16:58	1
2,2-Dichloropropane	ND		0.50		ug/L			12/17/18 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*12/17/18 16:58*	*1*
4-Bromofluorobenzene	*98*		*67 - 130*		*12/19/18 12:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/17/18 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/19/18 12:03*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/17/18 16:58*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/18 12:03*	*1*

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-90321-1	J6038-TRIPBLANK-121418	90	109	101
720-90321-2	J6038-T-25BD-121418	86	104	101
720-90321-3	J6038-T-25BS-121418	90	104	101
720-90321-4	J6038-EB-121418	104	104	106
720-90321-4	J6038-EB-121418	98	104	98
LCS 720-257057/5	Lab Control Sample	108	106	108
LCS 720-257059/5	Lab Control Sample	101	102	103
LCS 720-257144/5	Lab Control Sample	103	97	103
LCS 720-257216/5	Lab Control Sample	102	100	99
LCSD 720-257057/6	Lab Control Sample Dup	107	104	106
LCSD 720-257059/6	Lab Control Sample Dup	104	102	104
LCSD 720-257144/6	Lab Control Sample Dup	102	100	103
LCSD 720-257216/6	Lab Control Sample Dup	101	102	98
MB 720-257057/4	Method Blank	106	103	103
MB 720-257059/4	Method Blank	93	105	100
MB 720-257144/4	Method Blank	95	107	101
MB 720-257216/4	Method Blank	99	103	98

Surrogate Legend

BFB = 4-Bromofluorobenzene

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 720-257057/4
Matrix: Water
Analysis Batch: 257057

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/17/18 10:18	1
Acetone	ND		50		ug/L			12/17/18 10:18	1
Benzene	ND		0.50		ug/L			12/17/18 10:18	1
Dichlorobromomethane	ND		0.50		ug/L			12/17/18 10:18	1
Bromobenzene	ND		1.0		ug/L			12/17/18 10:18	1
Chlorobromomethane	ND		1.0		ug/L			12/17/18 10:18	1
Bromoform	ND		1.0		ug/L			12/17/18 10:18	1
Bromomethane	ND		1.0		ug/L			12/17/18 10:18	1
2-Butanone (MEK)	ND		50		ug/L			12/17/18 10:18	1
n-Butylbenzene	ND		1.0		ug/L			12/17/18 10:18	1
sec-Butylbenzene	ND		1.0		ug/L			12/17/18 10:18	1
tert-Butylbenzene	ND		1.0		ug/L			12/17/18 10:18	1
Carbon disulfide	ND		5.0		ug/L			12/17/18 10:18	1
Carbon tetrachloride	ND		0.50		ug/L			12/17/18 10:18	1
Chlorobenzene	ND		0.50		ug/L			12/17/18 10:18	1
Chloroethane	ND		1.0		ug/L			12/17/18 10:18	1
Chloroform	ND		1.0		ug/L			12/17/18 10:18	1
Chloromethane	ND		1.0		ug/L			12/17/18 10:18	1
2-Chlorotoluene	ND		0.50		ug/L			12/17/18 10:18	1
4-Chlorotoluene	ND		0.50		ug/L			12/17/18 10:18	1
Chlorodibromomethane	ND		0.50		ug/L			12/17/18 10:18	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/17/18 10:18	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/17/18 10:18	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/17/18 10:18	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/18 10:18	1
1,1-Dichloropropene	ND		0.50		ug/L			12/17/18 10:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/18 10:18	1
Ethylene Dibromide	ND		0.50		ug/L			12/17/18 10:18	1
Dibromomethane	ND		0.50		ug/L			12/17/18 10:18	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/17/18 10:18	1
1,1-Dichloroethane	ND		0.50		ug/L			12/17/18 10:18	1
1,2-Dichloroethane	ND		0.50		ug/L			12/17/18 10:18	1
1,1-Dichloroethene	ND		0.50		ug/L			12/17/18 10:18	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 10:18	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 10:18	1
1,2-Dichloropropane	ND		0.50		ug/L			12/17/18 10:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 10:18	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 10:18	1
Ethylbenzene	ND		0.50		ug/L			12/17/18 10:18	1
Hexachlorobutadiene	ND		1.0		ug/L			12/17/18 10:18	1
2-Hexanone	ND		50		ug/L			12/17/18 10:18	1
Isopropylbenzene	ND		0.50		ug/L			12/17/18 10:18	1
4-Isopropyltoluene	ND		1.0		ug/L			12/17/18 10:18	1
Methylene Chloride	ND		5.0		ug/L			12/17/18 10:18	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/17/18 10:18	1
Naphthalene	ND		1.0		ug/L			12/17/18 10:18	1
N-Propylbenzene	ND		1.0		ug/L			12/17/18 10:18	1
Styrene	ND		0.50		ug/L			12/17/18 10:18	1

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

Lab Sample ID: MB 720-257057/4
Matrix: Water
Analysis Batch: 257057

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 10:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 10:18	1
Tetrachloroethene	ND		0.50		ug/L			12/17/18 10:18	1
Toluene	ND		0.50		ug/L			12/17/18 10:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/17/18 10:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/18 10:18	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/17/18 10:18	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/17/18 10:18	1
Trichloroethene	ND		0.50		ug/L			12/17/18 10:18	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/18 10:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/18 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/17/18 10:18	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/17/18 10:18	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/17/18 10:18	1
Vinyl acetate	ND		10		ug/L			12/17/18 10:18	1
Vinyl chloride	ND		0.50		ug/L			12/17/18 10:18	1
Xylenes, Total	ND		0.50		ug/L			12/17/18 10:18	1
2,2-Dichloropropane	ND		0.50		ug/L			12/17/18 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*		*12/17/18 10:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*12/17/18 10:18*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/17/18 10:18*	*1*

Lab Sample ID: LCS 720-257057/5
Matrix: Water
Analysis Batch: 257057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	28.5		ug/L		114	70 - 130
Acetone	125	138		ug/L		111	61 - 147
Benzene	25.0	26.3		ug/L		105	79 - 119
Dichlorobromomethane	25.0	27.2		ug/L		109	81 - 130
Bromobenzene	25.0	25.9		ug/L		104	77 - 117
Chlorobromomethane	25.0	24.7		ug/L		99	81 - 122
Bromoform	25.0	26.0		ug/L		104	75 - 127
Bromomethane	25.0	21.9		ug/L		88	70 - 132
2-Butanone (MEK)	125	133		ug/L		107	66 - 133
n-Butylbenzene	25.0	27.4		ug/L		110	78 - 119
sec-Butylbenzene	25.0	26.7		ug/L		107	78 - 118
tert-Butylbenzene	25.0	26.8		ug/L		107	78 - 118
Carbon disulfide	25.0	25.9		ug/L		104	64 - 127
Carbon tetrachloride	25.0	26.7		ug/L		107	72 - 142
Chlorobenzene	25.0	25.6		ug/L		102	76 - 116
Chloroethane	25.0	22.3		ug/L		89	70 - 131
Chloroform	25.0	25.9		ug/L		104	82 - 119
Chloromethane	25.0	21.2		ug/L		85	49 - 134
2-Chlorotoluene	25.0	27.0		ug/L		108	75 - 115

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

Lab Sample ID: LCS 720-257057/5
Matrix: Water
Analysis Batch: 257057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	25.0	27.4		ug/L		110	73 - 119
Chlorodibromomethane	25.0	27.2		ug/L		109	77 - 133
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 117
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	76 - 116
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	76 - 116
1,3-Dichloropropane	25.0	27.1		ug/L		108	77 - 117
1,1-Dichloropropene	25.0	26.6		ug/L		106	83 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	74 - 126
Ethylene Dibromide	25.0	26.6		ug/L		106	80 - 121
Dibromomethane	25.0	25.5		ug/L		102	79 - 117
Dichlorodifluoromethane	25.0	20.8		ug/L		83	21 - 150
1,1-Dichloroethane	25.0	26.9		ug/L		108	77 - 119
1,2-Dichloroethane	25.0	26.1		ug/L		104	73 - 122
1,1-Dichloroethene	25.0	25.3		ug/L		101	69 - 119
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	77 - 117
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	79 - 117
1,2-Dichloropropane	25.0	27.5		ug/L		110	79 - 119
cis-1,3-Dichloropropene	25.0	29.0		ug/L		116	82 - 119
trans-1,3-Dichloropropene	25.0	28.5		ug/L		114	76 - 122
Ethylbenzene	25.0	26.4		ug/L		106	77 - 117
Hexachlorobutadiene	25.0	27.4		ug/L		110	78 - 140
2-Hexanone	125	143		ug/L		115	63 - 140
Isopropylbenzene	25.0	27.2		ug/L		109	77 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		107	80 - 120
Methylene Chloride	25.0	26.0		ug/L		104	75 - 117
4-Methyl-2-pentanone (MIBK)	125	142		ug/L		113	66 - 140
Naphthalene	25.0	26.1		ug/L		104	81 - 121
N-Propylbenzene	25.0	27.4		ug/L		110	77 - 117
Styrene	25.0	28.1		ug/L		113	76 - 116
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	81 - 121
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 115
Tetrachloroethene	25.0	26.1		ug/L		104	81 - 130
Toluene	25.0	26.2		ug/L		105	75 - 120
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	87 - 123
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	78 - 120
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	74 - 130
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	80 - 117
Trichloroethene	25.0	25.1		ug/L		100	80 - 123
Trichlorofluoromethane	25.0	25.9		ug/L		103	75 - 141
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	25.2		ug/L		101	70 - 133
1,2,4-Trimethylbenzene	25.0	27.8		ug/L		111	75 - 115
1,3,5-Trimethylbenzene	25.0	27.9		ug/L		111	77 - 117
Vinyl acetate	25.0	28.5		ug/L		114	50 - 126
Vinyl chloride	25.0	20.5		ug/L		82	58 - 138
m-Xylene & p-Xylene	25.0	26.8		ug/L		107	74 - 119
o-Xylene	25.0	26.8		ug/L		107	77 - 118

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

Lab Sample ID: LCS 720-257057/5
Matrix: Water
Analysis Batch: 257057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	25.0	28.4		ug/L		114	74 - 156

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 720-257057/6
Matrix: Water
Analysis Batch: 257057

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
Methyl tert-butyl ether	25.0	27.7		ug/L		111	70 - 130	3	20
Acetone	125	135		ug/L		108	61 - 147	3	30
Benzene	25.0	26.0		ug/L		104	79 - 119	1	20
Dichlorobromomethane	25.0	26.6		ug/L		106	81 - 130	2	20
Bromobenzene	25.0	26.1		ug/L		105	77 - 117	1	20
Chlorobromomethane	25.0	24.4		ug/L		97	81 - 122	1	20
Bromoform	25.0	25.8		ug/L		103	75 - 127	1	20
Bromomethane	25.0	21.4		ug/L		86	70 - 132	2	20
2-Butanone (MEK)	125	132		ug/L		105	66 - 133	1	22
n-Butylbenzene	25.0	28.1		ug/L		112	78 - 119	3	20
sec-Butylbenzene	25.0	27.1		ug/L		108	78 - 118	1	20
tert-Butylbenzene	25.0	27.3		ug/L		109	78 - 118	2	20
Carbon disulfide	25.0	25.8		ug/L		103	64 - 127	0	20
Carbon tetrachloride	25.0	26.6		ug/L		107	72 - 142	0	20
Chlorobenzene	25.0	25.6		ug/L		103	76 - 116	0	20
Chloroethane	25.0	21.5		ug/L		86	70 - 131	3	20
Chloroform	25.0	25.5		ug/L		102	82 - 119	1	20
Chloromethane	25.0	21.0		ug/L		84	49 - 134	1	20
2-Chlorotoluene	25.0	27.2		ug/L		109	75 - 115	1	20
4-Chlorotoluene	25.0	27.4		ug/L		109	73 - 119	0	20
Chlorodibromomethane	25.0	26.7		ug/L		107	77 - 133	2	20
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	77 - 117	2	20
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	76 - 116	1	20
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	76 - 116	0	20
1,3-Dichloropropane	25.0	26.2		ug/L		105	77 - 117	3	20
1,1-Dichloropropene	25.0	26.6		ug/L		106	83 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	26.1		ug/L		104	74 - 126	3	20
Ethylene Dibromide	25.0	25.9		ug/L		104	80 - 121	3	20
Dibromomethane	25.0	25.4		ug/L		102	79 - 117	0	20
Dichlorodifluoromethane	25.0	21.1		ug/L		84	21 - 150	2	20
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 - 119	1	20
1,2-Dichloroethane	25.0	25.8		ug/L		103	73 - 122	1	20
1,1-Dichloroethene	25.0	24.9		ug/L		100	69 - 119	2	20
cis-1,2-Dichloroethene	25.0	25.9		ug/L		103	77 - 117	1	20
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	79 - 117	0	20
1,2-Dichloropropane	25.0	27.0		ug/L		108	79 - 119	2	20

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

Lab Sample ID: LCSD 720-257057/6
Matrix: Water
Analysis Batch: 257057

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	25.0	28.2		ug/L		113	82 - 119	3	20
trans-1,3-Dichloropropene	25.0	28.0		ug/L		112	76 - 122	2	20
Ethylbenzene	25.0	26.4		ug/L		106	77 - 117	0	20
Hexachlorobutadiene	25.0	28.6		ug/L		114	78 - 140	4	20
2-Hexanone	125	141		ug/L		113	63 - 140	2	24
Isopropylbenzene	25.0	27.3		ug/L		109	77 - 130	0	20
4-Isopropyltoluene	25.0	27.2		ug/L		109	80 - 120	2	20
Methylene Chloride	25.0	25.4		ug/L		101	75 - 117	2	20
4-Methyl-2-pentanone (MIBK)	125	138		ug/L		110	66 - 140	3	21
Naphthalene	25.0	27.0		ug/L		108	81 - 121	4	20
N-Propylbenzene	25.0	27.8		ug/L		111	77 - 117	1	20
Styrene	25.0	28.1		ug/L		113	76 - 116	0	20
1,1,1,2-Tetrachloroethane	25.0	26.4		ug/L		106	81 - 121	0	20
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 115	0	20
Tetrachloroethene	25.0	25.9		ug/L		103	81 - 130	1	20
Toluene	25.0	26.2		ug/L		105	75 - 120	0	20
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	87 - 123	4	20
1,2,4-Trichlorobenzene	25.0	27.8		ug/L		111	78 - 120	3	20
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	74 - 130	0	20
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	80 - 117	3	20
Trichloroethene	25.0	25.1		ug/L		100	80 - 123	0	20
Trichlorofluoromethane	25.0	26.0		ug/L		104	75 - 141	0	20
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	77 - 120	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3		ug/L		101	70 - 133	0	20
1,2,4-Trimethylbenzene	25.0	28.0		ug/L		112	75 - 115	1	20
1,3,5-Trimethylbenzene	25.0	28.2		ug/L		113	77 - 117	1	20
Vinyl acetate	25.0	27.8		ug/L		111	50 - 126	2	20
Vinyl chloride	25.0	20.3		ug/L		81	58 - 138	1	20
m-Xylene & p-Xylene	25.0	26.7		ug/L		107	74 - 119	0	20
o-Xylene	25.0	26.7		ug/L		107	77 - 118	0	20
2,2-Dichloropropane	25.0	28.2		ug/L		113	74 - 156	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 720-257059/4
Matrix: Water
Analysis Batch: 257059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/17/18 10:36	1
Acetone	ND		50		ug/L			12/17/18 10:36	1
Benzene	ND		0.50		ug/L			12/17/18 10:36	1
Dichlorobromomethane	ND		0.50		ug/L			12/17/18 10:36	1
Bromobenzene	ND		1.0		ug/L			12/17/18 10:36	1

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

Lab Sample ID: MB 720-257059/4
Matrix: Water
Analysis Batch: 257059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		1.0		ug/L			12/17/18 10:36	1
Bromoform	ND		1.0		ug/L			12/17/18 10:36	1
Bromomethane	ND		1.0		ug/L			12/17/18 10:36	1
2-Butanone (MEK)	ND		50		ug/L			12/17/18 10:36	1
n-Butylbenzene	ND		1.0		ug/L			12/17/18 10:36	1
sec-Butylbenzene	ND		1.0		ug/L			12/17/18 10:36	1
tert-Butylbenzene	ND		1.0		ug/L			12/17/18 10:36	1
Carbon disulfide	ND		5.0		ug/L			12/17/18 10:36	1
Carbon tetrachloride	ND		0.50		ug/L			12/17/18 10:36	1
Chlorobenzene	ND		0.50		ug/L			12/17/18 10:36	1
Chloroethane	ND		1.0		ug/L			12/17/18 10:36	1
Chloroform	ND		1.0		ug/L			12/17/18 10:36	1
Chloromethane	ND		1.0		ug/L			12/17/18 10:36	1
2-Chlorotoluene	ND		0.50		ug/L			12/17/18 10:36	1
4-Chlorotoluene	ND		0.50		ug/L			12/17/18 10:36	1
Chlorodibromomethane	ND		0.50		ug/L			12/17/18 10:36	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/17/18 10:36	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/17/18 10:36	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/17/18 10:36	1
1,3-Dichloropropane	ND		1.0		ug/L			12/17/18 10:36	1
1,1-Dichloropropene	ND		0.50		ug/L			12/17/18 10:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/18 10:36	1
Ethylene Dibromide	ND		0.50		ug/L			12/17/18 10:36	1
Dibromomethane	ND		0.50		ug/L			12/17/18 10:36	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/17/18 10:36	1
1,1-Dichloroethane	ND		0.50		ug/L			12/17/18 10:36	1
1,2-Dichloroethane	ND		0.50		ug/L			12/17/18 10:36	1
1,1-Dichloroethene	ND		0.50		ug/L			12/17/18 10:36	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 10:36	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/17/18 10:36	1
1,2-Dichloropropane	ND		0.50		ug/L			12/17/18 10:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 10:36	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/17/18 10:36	1
Ethylbenzene	ND		0.50		ug/L			12/17/18 10:36	1
Hexachlorobutadiene	ND		1.0		ug/L			12/17/18 10:36	1
2-Hexanone	ND		50		ug/L			12/17/18 10:36	1
Isopropylbenzene	ND		0.50		ug/L			12/17/18 10:36	1
4-Isopropyltoluene	ND		1.0		ug/L			12/17/18 10:36	1
Methylene Chloride	ND		5.0		ug/L			12/17/18 10:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/17/18 10:36	1
Naphthalene	ND		1.0		ug/L			12/17/18 10:36	1
N-Propylbenzene	ND		1.0		ug/L			12/17/18 10:36	1
Styrene	ND		0.50		ug/L			12/17/18 10:36	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 10:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/17/18 10:36	1
Tetrachloroethene	ND		0.50		ug/L			12/17/18 10:36	1
Toluene	ND		0.50		ug/L			12/17/18 10:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/17/18 10:36	1

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

Lab Sample ID: MB 720-257059/4
Matrix: Water
Analysis Batch: 257059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/17/18 10:36	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/17/18 10:36	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/17/18 10:36	1
Trichloroethene	ND		0.50		ug/L			12/17/18 10:36	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/18 10:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/18 10:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/17/18 10:36	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/17/18 10:36	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/17/18 10:36	1
Vinyl acetate	ND		10		ug/L			12/17/18 10:36	1
Vinyl chloride	ND		0.50		ug/L			12/17/18 10:36	1
Xylenes, Total	ND		0.50		ug/L			12/17/18 10:36	1
2,2-Dichloropropane	ND		0.50		ug/L			12/17/18 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*12/17/18 10:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*12/17/18 10:36*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/17/18 10:36*	*1*

Lab Sample ID: LCS 720-257059/5
Matrix: Water
Analysis Batch: 257059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Acetone	125	126		ug/L		101	61 - 147
Benzene	25.0	25.4		ug/L		102	79 - 119
Dichlorobromomethane	25.0	26.5		ug/L		106	81 - 130
Bromobenzene	25.0	25.3		ug/L		101	77 - 117
Chlorobromomethane	25.0	26.5		ug/L		106	81 - 122
Bromoform	25.0	26.7		ug/L		107	75 - 127
Bromomethane	25.0	23.3		ug/L		93	70 - 132
2-Butanone (MEK)	125	135		ug/L		108	66 - 133
n-Butylbenzene	25.0	28.7		ug/L		115	78 - 119
sec-Butylbenzene	25.0	28.3		ug/L		113	78 - 118
tert-Butylbenzene	25.0	27.2		ug/L		109	78 - 118
Carbon disulfide	25.0	26.4		ug/L		106	64 - 127
Carbon tetrachloride	25.0	26.2		ug/L		105	72 - 142
Chlorobenzene	25.0	25.9		ug/L		103	76 - 116
Chloroethane	25.0	24.0		ug/L		96	70 - 131
Chloroform	25.0	26.2		ug/L		105	82 - 119
Chloromethane	25.0	23.9		ug/L		96	49 - 134
2-Chlorotoluene	25.0	26.3		ug/L		105	75 - 115
4-Chlorotoluene	25.0	26.5		ug/L		106	73 - 119
Chlorodibromomethane	25.0	27.1		ug/L		108	77 - 133
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 117
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	76 - 116
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	76 - 116

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

Lab Sample ID: LCS 720-257059/5
Matrix: Water
Analysis Batch: 257059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	25.0	26.3		ug/L		105	77 - 117
1,1-Dichloropropene	25.0	26.8		ug/L		107	83 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.6		ug/L		107	74 - 126
Ethylene Dibromide	25.0	27.3		ug/L		109	80 - 121
Dibromomethane	25.0	26.3		ug/L		105	79 - 117
Dichlorodifluoromethane	25.0	24.0		ug/L		96	21 - 150
1,1-Dichloroethane	25.0	26.2		ug/L		105	77 - 119
1,2-Dichloroethane	25.0	25.8		ug/L		103	73 - 122
1,1-Dichloroethene	25.0	25.0		ug/L		100	69 - 119
cis-1,2-Dichloroethene	25.0	26.4		ug/L		105	77 - 117
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	79 - 117
1,2-Dichloropropane	25.0	26.2		ug/L		105	79 - 119
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	82 - 119
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	76 - 122
Ethylbenzene	25.0	27.4		ug/L		110	77 - 117
Hexachlorobutadiene	25.0	25.7		ug/L		103	78 - 140
2-Hexanone	125	140		ug/L		112	63 - 140
Isopropylbenzene	25.0	29.0		ug/L		116	77 - 130
4-Isopropyltoluene	25.0	28.0		ug/L		112	80 - 120
Methylene Chloride	25.0	25.8		ug/L		103	75 - 117
4-Methyl-2-pentanone (MIBK)	125	140		ug/L		112	66 - 140
Naphthalene	25.0	27.6		ug/L		110	81 - 121
N-Propylbenzene	25.0	28.3		ug/L		113	77 - 117
Styrene	25.0	28.7		ug/L		115	76 - 116
1,1,1,2-Tetrachloroethane	25.0	26.4		ug/L		105	81 - 121
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 115
Tetrachloroethene	25.0	27.0		ug/L		108	81 - 130
Toluene	25.0	24.1		ug/L		96	75 - 120
1,2,3-Trichlorobenzene	25.0	26.4		ug/L		105	87 - 123
1,2,4-Trichlorobenzene	25.0	27.0		ug/L		108	78 - 120
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	74 - 130
1,1,2-Trichloroethane	25.0	26.7		ug/L		107	80 - 117
Trichloroethene	25.0	26.8		ug/L		107	80 - 123
Trichlorofluoromethane	25.0	24.6		ug/L		99	75 - 141
1,2,3-Trichloropropane	25.0	25.8		ug/L		103	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	26.4		ug/L		106	70 - 133
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	75 - 115
1,3,5-Trimethylbenzene	25.0	27.8		ug/L		111	77 - 117
Vinyl acetate	25.0	27.9		ug/L		112	50 - 126
Vinyl chloride	25.0	23.8		ug/L		95	58 - 138
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	74 - 119
o-Xylene	25.0	27.5		ug/L		110	77 - 118
2,2-Dichloropropane	25.0	28.1		ug/L		112	74 - 156

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*

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

Lab Sample ID: LCS 720-257059/5
Matrix: Water
Analysis Batch: 257059

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 720-257059/6
Matrix: Water
Analysis Batch: 257059

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
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130	0	20
Acetone	125	133		ug/L		106	61 - 147	5	30
Benzene	25.0	25.4		ug/L		101	79 - 119	0	20
Dichlorobromomethane	25.0	26.3		ug/L		105	81 - 130	1	20
Bromobenzene	25.0	25.4		ug/L		101	77 - 117	0	20
Chlorobromomethane	25.0	26.3		ug/L		105	81 - 122	1	20
Bromoform	25.0	27.2		ug/L		109	75 - 127	2	20
Bromomethane	25.0	23.9		ug/L		96	70 - 132	2	20
2-Butanone (MEK)	125	136		ug/L		109	66 - 133	1	22
n-Butylbenzene	25.0	28.7		ug/L		115	78 - 119	0	20
sec-Butylbenzene	25.0	28.3		ug/L		113	78 - 118	0	20
tert-Butylbenzene	25.0	27.5		ug/L		110	78 - 118	1	20
Carbon disulfide	25.0	25.9		ug/L		104	64 - 127	2	20
Carbon tetrachloride	25.0	26.0		ug/L		104	72 - 142	1	20
Chlorobenzene	25.0	26.0		ug/L		104	76 - 116	1	20
Chloroethane	25.0	24.8		ug/L		99	70 - 131	3	20
Chloroform	25.0	25.8		ug/L		103	82 - 119	2	20
Chloromethane	25.0	24.0		ug/L		96	49 - 134	0	20
2-Chlorotoluene	25.0	26.3		ug/L		105	75 - 115	0	20
4-Chlorotoluene	25.0	26.6		ug/L		106	73 - 119	0	20
Chlorodibromomethane	25.0	27.4		ug/L		110	77 - 133	1	20
1,2-Dichlorobenzene	25.0	25.6		ug/L		103	77 - 117	2	20
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	76 - 116	0	20
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	76 - 116	1	20
1,3-Dichloropropane	25.0	26.4		ug/L		106	77 - 117	1	20
1,1-Dichloropropene	25.0	26.6		ug/L		106	83 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	27.7		ug/L		111	74 - 126	4	20
Ethylene Dibromide	25.0	27.3		ug/L		109	80 - 121	0	20
Dibromomethane	25.0	26.2		ug/L		105	79 - 117	0	20
Dichlorodifluoromethane	25.0	23.7		ug/L		95	21 - 150	1	20
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 119	0	20
1,2-Dichloroethane	25.0	25.4		ug/L		102	73 - 122	1	20
1,1-Dichloroethene	25.0	25.2		ug/L		101	69 - 119	1	20
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	77 - 117	1	20
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	79 - 117	2	20
1,2-Dichloropropane	25.0	26.1		ug/L		104	79 - 119	0	20
cis-1,3-Dichloropropene	25.0	27.4		ug/L		109	82 - 119	2	20
trans-1,3-Dichloropropene	25.0	28.0		ug/L		112	76 - 122	0	20
Ethylbenzene	25.0	27.4		ug/L		110	77 - 117	0	20
Hexachlorobutadiene	25.0	26.0		ug/L		104	78 - 140	1	20
2-Hexanone	125	142		ug/L		114	63 - 140	1	24

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

Lab Sample ID: LCSD 720-257059/6
Matrix: Water
Analysis Batch: 257059

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
Isopropylbenzene	25.0	28.9		ug/L		116	77 - 130	0	20
4-Isopropyltoluene	25.0	28.0		ug/L		112	80 - 120	0	20
Methylene Chloride	25.0	25.9		ug/L		103	75 - 117	0	20
4-Methyl-2-pentanone (MIBK)	125	141		ug/L		113	66 - 140	1	21
Naphthalene	25.0	28.3		ug/L		113	81 - 121	3	20
N-Propylbenzene	25.0	28.2		ug/L		113	77 - 117	0	20
Styrene	25.0	28.5		ug/L		114	76 - 116	1	20
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	81 - 121	1	20
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		101	70 - 115	1	20
Tetrachloroethene	25.0	26.4		ug/L		106	81 - 130	2	20
Toluene	25.0	24.3		ug/L		97	75 - 120	1	20
1,2,3-Trichlorobenzene	25.0	26.9		ug/L		108	87 - 123	2	20
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	78 - 120	2	20
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	74 - 130	1	20
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	80 - 117	0	20
Trichloroethene	25.0	26.6		ug/L		106	80 - 123	1	20
Trichlorofluoromethane	25.0	23.1		ug/L		92	75 - 141	7	20
1,2,3-Trichloropropane	25.0	26.4		ug/L		106	77 - 120	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.2		ug/L		105	70 - 133	1	20
1,2,4-Trimethylbenzene	25.0	28.2		ug/L		113	75 - 115	0	20
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	77 - 117	1	20
Vinyl acetate	25.0	27.5		ug/L		110	50 - 126	1	20
Vinyl chloride	25.0	22.9		ug/L		92	58 - 138	4	20
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	74 - 119	0	20
o-Xylene	25.0	27.5		ug/L		110	77 - 118	0	20
2,2-Dichloropropane	25.0	27.0		ug/L		108	74 - 156	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 720-257144/4
Matrix: Water
Analysis Batch: 257144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/18/18 10:21	1
Acetone	ND		50		ug/L			12/18/18 10:21	1
Benzene	ND		0.50		ug/L			12/18/18 10:21	1
Dichlorobromomethane	ND		0.50		ug/L			12/18/18 10:21	1
Bromobenzene	ND		1.0		ug/L			12/18/18 10:21	1
Chlorobromomethane	ND		1.0		ug/L			12/18/18 10:21	1
Bromoform	ND		1.0		ug/L			12/18/18 10:21	1
Bromomethane	ND		1.0		ug/L			12/18/18 10:21	1
2-Butanone (MEK)	ND		50		ug/L			12/18/18 10:21	1
n-Butylbenzene	ND		1.0		ug/L			12/18/18 10:21	1

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

Lab Sample ID: MB 720-257144/4
Matrix: Water
Analysis Batch: 257144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			12/18/18 10:21	1
tert-Butylbenzene	ND		1.0		ug/L			12/18/18 10:21	1
Carbon disulfide	ND		5.0		ug/L			12/18/18 10:21	1
Carbon tetrachloride	ND		0.50		ug/L			12/18/18 10:21	1
Chlorobenzene	ND		0.50		ug/L			12/18/18 10:21	1
Chloroethane	ND		1.0		ug/L			12/18/18 10:21	1
Chloroform	ND		1.0		ug/L			12/18/18 10:21	1
Chloromethane	ND		1.0		ug/L			12/18/18 10:21	1
2-Chlorotoluene	ND		0.50		ug/L			12/18/18 10:21	1
4-Chlorotoluene	ND		0.50		ug/L			12/18/18 10:21	1
Chlorodibromomethane	ND		0.50		ug/L			12/18/18 10:21	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/18/18 10:21	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/18/18 10:21	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/18/18 10:21	1
1,3-Dichloropropane	ND		1.0		ug/L			12/18/18 10:21	1
1,1-Dichloropropene	ND		0.50		ug/L			12/18/18 10:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/18/18 10:21	1
Ethylene Dibromide	ND		0.50		ug/L			12/18/18 10:21	1
Dibromomethane	ND		0.50		ug/L			12/18/18 10:21	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/18/18 10:21	1
1,1-Dichloroethane	ND		0.50		ug/L			12/18/18 10:21	1
1,2-Dichloroethane	ND		0.50		ug/L			12/18/18 10:21	1
1,1-Dichloroethene	ND		0.50		ug/L			12/18/18 10:21	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/18/18 10:21	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/18/18 10:21	1
1,2-Dichloropropane	ND		0.50		ug/L			12/18/18 10:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/18/18 10:21	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/18/18 10:21	1
Ethylbenzene	ND		0.50		ug/L			12/18/18 10:21	1
Hexachlorobutadiene	ND		1.0		ug/L			12/18/18 10:21	1
2-Hexanone	ND		50		ug/L			12/18/18 10:21	1
Isopropylbenzene	ND		0.50		ug/L			12/18/18 10:21	1
4-Isopropyltoluene	ND		1.0		ug/L			12/18/18 10:21	1
Methylene Chloride	ND		5.0		ug/L			12/18/18 10:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/18/18 10:21	1
Naphthalene	ND		1.0		ug/L			12/18/18 10:21	1
N-Propylbenzene	ND		1.0		ug/L			12/18/18 10:21	1
Styrene	ND		0.50		ug/L			12/18/18 10:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/18/18 10:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/18/18 10:21	1
Tetrachloroethene	ND		0.50		ug/L			12/18/18 10:21	1
Toluene	ND		0.50		ug/L			12/18/18 10:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/18/18 10:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/18/18 10:21	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/18/18 10:21	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/18/18 10:21	1
Trichloroethene	ND		0.50		ug/L			12/18/18 10:21	1
Trichlorofluoromethane	ND		1.0		ug/L			12/18/18 10:21	1

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

Lab Sample ID: MB 720-257144/4
Matrix: Water
Analysis Batch: 257144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/18/18 10:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/18/18 10:21	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/18/18 10:21	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/18/18 10:21	1
Vinyl acetate	ND		10		ug/L			12/18/18 10:21	1
Vinyl chloride	ND		0.50		ug/L			12/18/18 10:21	1
Xylenes, Total	ND		0.50		ug/L			12/18/18 10:21	1
2,2-Dichloropropane	ND		0.50		ug/L			12/18/18 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*12/18/18 10:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*12/18/18 10:21*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/18/18 10:21*	*1*

Lab Sample ID: LCS 720-257144/5
Matrix: Water
Analysis Batch: 257144

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130
Acetone	125	128		ug/L		102	61 - 147
Benzene	25.0	25.4		ug/L		101	79 - 119
Dichlorobromomethane	25.0	26.0		ug/L		104	81 - 130
Bromobenzene	25.0	25.2		ug/L		101	77 - 117
Chlorobromomethane	25.0	25.8		ug/L		103	81 - 122
Bromoform	25.0	25.4		ug/L		102	75 - 127
Bromomethane	25.0	22.7		ug/L		91	70 - 132
2-Butanone (MEK)	125	118		ug/L		94	66 - 133
n-Butylbenzene	25.0	29.3		ug/L		117	78 - 119
sec-Butylbenzene	25.0	28.8		ug/L		115	78 - 118
tert-Butylbenzene	25.0	27.7		ug/L		111	78 - 118
Carbon disulfide	25.0	26.1		ug/L		104	64 - 127
Carbon tetrachloride	25.0	25.9		ug/L		104	72 - 142
Chlorobenzene	25.0	26.0		ug/L		104	76 - 116
Chloroethane	25.0	25.1		ug/L		101	70 - 131
Chloroform	25.0	25.9		ug/L		104	82 - 119
Chloromethane	25.0	24.1		ug/L		97	49 - 134
2-Chlorotoluene	25.0	27.0		ug/L		108	75 - 115
4-Chlorotoluene	25.0	27.2		ug/L		109	73 - 119
Chlorodibromomethane	25.0	26.1		ug/L		104	77 - 133
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 117
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	76 - 116
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	76 - 116
1,3-Dichloropropane	25.0	25.6		ug/L		102	77 - 117
1,1-Dichloropropene	25.0	26.8		ug/L		107	83 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	74 - 126
Ethylene Dibromide	25.0	26.4		ug/L		106	80 - 121
Dibromomethane	25.0	25.6		ug/L		102	79 - 117

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

Lab Sample ID: LCS 720-257144/5
Matrix: Water
Analysis Batch: 257144

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	25.0	22.8		ug/L		91	21 - 150
1,1-Dichloroethane	25.0	25.9		ug/L		104	77 - 119
1,2-Dichloroethane	25.0	25.4		ug/L		102	73 - 122
1,1-Dichloroethene	25.0	25.0		ug/L		100	69 - 119
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	77 - 117
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	79 - 117
1,2-Dichloropropane	25.0	26.2		ug/L		105	79 - 119
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	82 - 119
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	76 - 122
Ethylbenzene	25.0	27.8		ug/L		111	77 - 117
Hexachlorobutadiene	25.0	24.9		ug/L		100	78 - 140
2-Hexanone	125	128		ug/L		103	63 - 140
Isopropylbenzene	25.0	29.2		ug/L		117	77 - 130
4-Isopropyltoluene	25.0	28.5		ug/L		114	80 - 120
Methylene Chloride	25.0	25.9		ug/L		104	75 - 117
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	66 - 140
Naphthalene	25.0	25.8		ug/L		103	81 - 121
N-Propylbenzene	25.0	29.0		ug/L		116	77 - 117
Styrene	25.0	28.6		ug/L		114	76 - 116
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	81 - 121
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 115
Tetrachloroethene	25.0	26.3		ug/L		105	81 - 130
Toluene	25.0	24.4		ug/L		98	75 - 120
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	87 - 123
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	78 - 120
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	74 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	80 - 117
Trichloroethene	25.0	26.7		ug/L		107	80 - 123
Trichlorofluoromethane	25.0	26.3		ug/L		105	75 - 141
1,2,3-Trichloropropane	25.0	25.0		ug/L		100	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.2		ug/L		105	70 - 133
1,2,4-Trimethylbenzene	25.0	28.7		ug/L		115	75 - 115
1,3,5-Trimethylbenzene	25.0	28.5		ug/L		114	77 - 117
Vinyl acetate	25.0	26.2		ug/L		105	50 - 126
Vinyl chloride	25.0	23.8		ug/L		95	58 - 138
m-Xylene & p-Xylene	25.0	27.3		ug/L		109	74 - 119
o-Xylene	25.0	28.2		ug/L		113	77 - 118
2,2-Dichloropropane	25.0	28.1		ug/L		112	74 - 156

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

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

Lab Sample ID: LCSD 720-257144/6
Matrix: Water
Analysis Batch: 257144

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
Methyl tert-butyl ether	25.0	25.0		ug/L		100	70 - 130	1	20
Acetone	125	123		ug/L		99	61 - 147	4	30
Benzene	25.0	25.4		ug/L		102	79 - 119	0	20
Dichlorobromomethane	25.0	26.1		ug/L		104	81 - 130	0	20
Bromobenzene	25.0	25.2		ug/L		101	77 - 117	0	20
Chlorobromomethane	25.0	26.0		ug/L		104	81 - 122	1	20
Bromoform	25.0	25.0		ug/L		100	75 - 127	1	20
Bromomethane	25.0	23.5		ug/L		94	70 - 132	3	20
2-Butanone (MEK)	125	123		ug/L		98	66 - 133	4	22
n-Butylbenzene	25.0	29.4		ug/L		118	78 - 119	0	20
sec-Butylbenzene	25.0	29.2		ug/L		117	78 - 118	1	20
tert-Butylbenzene	25.0	28.2		ug/L		113	78 - 118	2	20
Carbon disulfide	25.0	25.9		ug/L		104	64 - 127	1	20
Carbon tetrachloride	25.0	26.0		ug/L		104	72 - 142	1	20
Chlorobenzene	25.0	26.1		ug/L		105	76 - 116	0	20
Chloroethane	25.0	25.2		ug/L		101	70 - 131	0	20
Chloroform	25.0	26.0		ug/L		104	82 - 119	0	20
Chloromethane	25.0	23.7		ug/L		95	49 - 134	2	20
2-Chlorotoluene	25.0	27.2		ug/L		109	75 - 115	1	20
4-Chlorotoluene	25.0	27.3		ug/L		109	73 - 119	1	20
Chlorodibromomethane	25.0	26.0		ug/L		104	77 - 133	0	20
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 117	1	20
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	76 - 116	0	20
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	76 - 116	0	20
1,3-Dichloropropane	25.0	25.5		ug/L		102	77 - 117	0	20
1,1-Dichloropropene	25.0	27.1		ug/L		108	83 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	25.0		ug/L		100	74 - 126	1	20
Ethylene Dibromide	25.0	26.0		ug/L		104	80 - 121	2	20
Dibromomethane	25.0	25.3		ug/L		101	79 - 117	1	20
Dichlorodifluoromethane	25.0	22.6		ug/L		90	21 - 150	1	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	77 - 119	0	20
1,2-Dichloroethane	25.0	25.4		ug/L		102	73 - 122	0	20
1,1-Dichloroethene	25.0	25.0		ug/L		100	69 - 119	0	20
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	77 - 117	0	20
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	79 - 117	2	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	79 - 119	1	20
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	82 - 119	0	20
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	76 - 122	2	20
Ethylbenzene	25.0	27.6		ug/L		110	77 - 117	1	20
Hexachlorobutadiene	25.0	24.9		ug/L		99	78 - 140	0	20
2-Hexanone	125	126		ug/L		101	63 - 140	2	24
Isopropylbenzene	25.0	29.4		ug/L		118	77 - 130	1	20
4-Isopropyltoluene	25.0	28.6		ug/L		115	80 - 120	0	20
Methylene Chloride	25.0	25.9		ug/L		103	75 - 117	0	20
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	66 - 140	2	21
Naphthalene	25.0	25.4		ug/L		102	81 - 121	2	20
N-Propylbenzene	25.0	29.1		ug/L		116	77 - 117	0	20
Styrene	25.0	28.6		ug/L		115	76 - 116	0	20

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

Lab Sample ID: LCSD 720-257144/6
Matrix: Water
Analysis Batch: 257144

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
1,1,1,2-Tetrachloroethane	25.0	26.4		ug/L		105	81 - 121	0	20
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 115	2	20
Tetrachloroethene	25.0	26.1		ug/L		104	81 - 130	1	20
Toluene	25.0	24.3		ug/L		97	75 - 120	1	20
1,2,3-Trichlorobenzene	25.0	24.7		ug/L		99	87 - 123	2	20
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	78 - 120	3	20
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	74 - 130	1	20
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	80 - 117	1	20
Trichloroethene	25.0	25.9		ug/L		104	80 - 123	3	20
Trichlorofluoromethane	25.0	26.9		ug/L		108	75 - 141	2	20
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	77 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.0		ug/L		104	70 - 133	1	20
1,2,4-Trimethylbenzene	25.0	29.3	*	ug/L		117	75 - 115	2	20
1,3,5-Trimethylbenzene	25.0	28.8		ug/L		115	77 - 117	1	20
Vinyl acetate	25.0	26.4		ug/L		105	50 - 126	1	20
Vinyl chloride	25.0	22.6		ug/L		90	58 - 138	5	20
m-Xylene & p-Xylene	25.0	27.4		ug/L		110	74 - 119	0	20
o-Xylene	25.0	27.7		ug/L		111	77 - 118	2	20
2,2-Dichloropropane	25.0	27.1		ug/L		108	74 - 156	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 720-257216/4
Matrix: Water
Analysis Batch: 257216

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			12/19/18 10:07	1
Acetone	ND		50		ug/L			12/19/18 10:07	1
Benzene	ND		0.50		ug/L			12/19/18 10:07	1
Dichlorobromomethane	ND		0.50		ug/L			12/19/18 10:07	1
Bromobenzene	ND		1.0		ug/L			12/19/18 10:07	1
Chlorobromomethane	ND		1.0		ug/L			12/19/18 10:07	1
Bromoform	ND		1.0		ug/L			12/19/18 10:07	1
Bromomethane	ND		1.0		ug/L			12/19/18 10:07	1
2-Butanone (MEK)	ND		50		ug/L			12/19/18 10:07	1
n-Butylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
sec-Butylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
tert-Butylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
Carbon disulfide	ND		5.0		ug/L			12/19/18 10:07	1
Carbon tetrachloride	ND		0.50		ug/L			12/19/18 10:07	1
Chlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
Chloroethane	ND		1.0		ug/L			12/19/18 10:07	1
Chloroform	ND		1.0		ug/L			12/19/18 10:07	1

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

Lab Sample ID: MB 720-257216/4
Matrix: Water
Analysis Batch: 257216

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			12/19/18 10:07	1
2-Chlorotoluene	ND		0.50		ug/L			12/19/18 10:07	1
4-Chlorotoluene	ND		0.50		ug/L			12/19/18 10:07	1
Chlorodibromomethane	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,3-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,4-Dichlorobenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,3-Dichloropropane	ND		1.0		ug/L			12/19/18 10:07	1
1,1-Dichloropropene	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/19/18 10:07	1
Ethylene Dibromide	ND		0.50		ug/L			12/19/18 10:07	1
Dibromomethane	ND		0.50		ug/L			12/19/18 10:07	1
Dichlorodifluoromethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1-Dichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1-Dichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
1,2-Dichloropropane	ND		0.50		ug/L			12/19/18 10:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 10:07	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			12/19/18 10:07	1
Ethylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
Hexachlorobutadiene	ND		1.0		ug/L			12/19/18 10:07	1
2-Hexanone	ND		50		ug/L			12/19/18 10:07	1
Isopropylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
4-Isopropyltoluene	ND		1.0		ug/L			12/19/18 10:07	1
Methylene Chloride	ND		5.0		ug/L			12/19/18 10:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			12/19/18 10:07	1
Naphthalene	ND		1.0		ug/L			12/19/18 10:07	1
N-Propylbenzene	ND		1.0		ug/L			12/19/18 10:07	1
Styrene	ND		0.50		ug/L			12/19/18 10:07	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			12/19/18 10:07	1
Tetrachloroethene	ND		0.50		ug/L			12/19/18 10:07	1
Toluene	ND		0.50		ug/L			12/19/18 10:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/19/18 10:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/19/18 10:07	1
1,1,1-Trichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,1,2-Trichloroethane	ND		0.50		ug/L			12/19/18 10:07	1
Trichloroethene	ND		0.50		ug/L			12/19/18 10:07	1
Trichlorofluoromethane	ND		1.0		ug/L			12/19/18 10:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/19/18 10:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			12/19/18 10:07	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/19/18 10:07	1
Vinyl acetate	ND		10		ug/L			12/19/18 10:07	1
Vinyl chloride	ND		0.50		ug/L			12/19/18 10:07	1
Xylenes, Total	ND		0.50		ug/L			12/19/18 10:07	1

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

Lab Sample ID: MB 720-257216/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 257216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50		ug/L			12/19/18 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/19/18 10:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*12/19/18 10:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/19/18 10:07*	*1*

Lab Sample ID: LCS 720-257216/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 257216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.1		ug/L		100	70 - 130
Acetone	125	119		ug/L		95	61 - 147
Benzene	25.0	26.1		ug/L		105	79 - 119
Dichlorobromomethane	25.0	28.1		ug/L		112	81 - 130
Bromobenzene	25.0	26.0		ug/L		104	77 - 117
Chlorobromomethane	25.0	26.4		ug/L		106	81 - 122
Bromoform	25.0	27.1		ug/L		108	75 - 127
Bromomethane	25.0	24.8		ug/L		99	70 - 132
2-Butanone (MEK)	125	120		ug/L		96	66 - 133
n-Butylbenzene	25.0	26.6		ug/L		107	78 - 119
sec-Butylbenzene	25.0	26.2		ug/L		105	78 - 118
tert-Butylbenzene	25.0	25.8		ug/L		103	78 - 118
Carbon disulfide	25.0	27.7		ug/L		111	64 - 127
Carbon tetrachloride	25.0	26.7		ug/L		107	72 - 142
Chlorobenzene	25.0	26.7		ug/L		107	76 - 116
Chloroethane	25.0	25.1		ug/L		101	70 - 131
Chloroform	25.0	27.2		ug/L		109	82 - 119
Chloromethane	25.0	23.6		ug/L		94	49 - 134
2-Chlorotoluene	25.0	26.4		ug/L		106	75 - 115
4-Chlorotoluene	25.0	26.9		ug/L		107	73 - 119
Chlorodibromomethane	25.0	28.5		ug/L		114	77 - 133
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	77 - 117
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	76 - 116
1,4-Dichlorobenzene	25.0	27.1		ug/L		108	76 - 116
1,3-Dichloropropane	25.0	26.3		ug/L		105	77 - 117
1,1-Dichloropropene	25.0	26.7		ug/L		107	83 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	74 - 126
Ethylene Dibromide	25.0	26.6		ug/L		106	80 - 121
Dibromomethane	25.0	26.3		ug/L		105	79 - 117
Dichlorodifluoromethane	25.0	23.9		ug/L		95	21 - 150
1,1-Dichloroethane	25.0	27.0		ug/L		108	77 - 119
1,2-Dichloroethane	25.0	26.6		ug/L		106	73 - 122
1,1-Dichloroethene	25.0	27.4		ug/L		109	69 - 119
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	77 - 117
trans-1,2-Dichloroethene	25.0	28.0		ug/L		112	79 - 117
1,2-Dichloropropane	25.0	27.9		ug/L		112	79 - 119

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

Lab Sample ID: LCS 720-257216/5
Matrix: Water
Analysis Batch: 257216

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	28.4		ug/L		113	82 - 119
trans-1,3-Dichloropropene	25.0	26.9		ug/L		107	76 - 122
Ethylbenzene	25.0	26.3		ug/L		105	77 - 117
Hexachlorobutadiene	25.0	25.9		ug/L		104	78 - 140
2-Hexanone	125	123		ug/L		98	63 - 140
Isopropylbenzene	25.0	26.9		ug/L		108	77 - 130
4-Isopropyltoluene	25.0	26.7		ug/L		107	80 - 120
Methylene Chloride	25.0	24.5		ug/L		98	75 - 117
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	66 - 140
Naphthalene	25.0	24.6		ug/L		98	81 - 121
N-Propylbenzene	25.0	26.7		ug/L		107	77 - 117
Styrene	25.0	25.6		ug/L		102	76 - 116
1,1,1,2-Tetrachloroethane	25.0	27.4		ug/L		110	81 - 121
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 115
Tetrachloroethene	25.0	26.6		ug/L		106	81 - 130
Toluene	25.0	25.5		ug/L		102	75 - 120
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	87 - 123
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	78 - 120
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	74 - 130
1,1,2-Trichloroethane	25.0	27.4		ug/L		110	80 - 117
Trichloroethene	25.0	26.3		ug/L		105	80 - 123
Trichlorofluoromethane	25.0	25.4		ug/L		102	75 - 141
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2		ug/L		109	70 - 133
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	75 - 115
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	77 - 117
Vinyl acetate	25.0	23.7		ug/L		95	50 - 126
Vinyl chloride	25.0	26.0		ug/L		104	58 - 138
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	74 - 119
o-Xylene	25.0	26.9		ug/L		108	77 - 118
2,2-Dichloropropane	25.0	26.4		ug/L		106	74 - 156

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-257216/6
Matrix: Water
Analysis Batch: 257216

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
Methyl tert-butyl ether	25.0	25.6		ug/L		102	70 - 130	2	20
Acetone	125	115		ug/L		92	61 - 147	4	30
Benzene	25.0	26.2		ug/L		105	79 - 119	0	20
Dichlorobromomethane	25.0	28.3		ug/L		113	81 - 130	1	20
Bromobenzene	25.0	26.6		ug/L		107	77 - 117	2	20

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

Lab Sample ID: LCSD 720-257216/6
Matrix: Water
Analysis Batch: 257216

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
Chlorobromomethane	25.0	26.8		ug/L		107	81 - 122	2	20
Bromoform	25.0	27.5		ug/L		110	75 - 127	1	20
Bromomethane	25.0	24.4		ug/L		98	70 - 132	2	20
2-Butanone (MEK)	125	116		ug/L		92	66 - 133	4	22
n-Butylbenzene	25.0	26.2		ug/L		105	78 - 119	2	20
sec-Butylbenzene	25.0	26.1		ug/L		104	78 - 118	0	20
tert-Butylbenzene	25.0	26.0		ug/L		104	78 - 118	1	20
Carbon disulfide	25.0	27.5		ug/L		110	64 - 127	1	20
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 142	1	20
Chlorobenzene	25.0	26.6		ug/L		106	76 - 116	1	20
Chloroethane	25.0	24.3		ug/L		97	70 - 131	3	20
Chloroform	25.0	27.5		ug/L		110	82 - 119	1	20
Chloromethane	25.0	23.4		ug/L		94	49 - 134	1	20
2-Chlorotoluene	25.0	26.9		ug/L		108	75 - 115	2	20
4-Chlorotoluene	25.0	27.2		ug/L		109	73 - 119	1	20
Chlorodibromomethane	25.0	29.1		ug/L		116	77 - 133	2	20
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	77 - 117	1	20
1,3-Dichlorobenzene	25.0	27.2		ug/L		109	76 - 116	1	20
1,4-Dichlorobenzene	25.0	27.5		ug/L		110	76 - 116	1	20
1,3-Dichloropropane	25.0	26.8		ug/L		107	77 - 117	2	20
1,1-Dichloropropene	25.0	26.4		ug/L		106	83 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.1		ug/L		92	74 - 126	1	20
Ethylene Dibromide	25.0	27.3		ug/L		109	80 - 121	3	20
Dibromomethane	25.0	27.0		ug/L		108	79 - 117	3	20
Dichlorodifluoromethane	25.0	23.0		ug/L		92	21 - 150	4	20
1,1-Dichloroethane	25.0	27.0		ug/L		108	77 - 119	0	20
1,2-Dichloroethane	25.0	27.0		ug/L		108	73 - 122	1	20
1,1-Dichloroethene	25.0	27.2		ug/L		109	69 - 119	0	20
cis-1,2-Dichloroethene	25.0	27.3		ug/L		109	77 - 117	1	20
trans-1,2-Dichloroethene	25.0	28.1		ug/L		113	79 - 117	1	20
1,2-Dichloropropane	25.0	27.9		ug/L		112	79 - 119	0	20
cis-1,3-Dichloropropene	25.0	29.0		ug/L		116	82 - 119	2	20
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	76 - 122	3	20
Ethylbenzene	25.0	26.0		ug/L		104	77 - 117	1	20
Hexachlorobutadiene	25.0	24.6		ug/L		99	78 - 140	5	20
2-Hexanone	125	124		ug/L		99	63 - 140	1	24
Isopropylbenzene	25.0	26.7		ug/L		107	77 - 130	1	20
4-Isopropyltoluene	25.0	26.6		ug/L		107	80 - 120	0	20
Methylene Chloride	25.0	25.0		ug/L		100	75 - 117	2	20
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	66 - 140	0	21
Naphthalene	25.0	24.2		ug/L		97	81 - 121	2	20
N-Propylbenzene	25.0	26.8		ug/L		107	77 - 117	0	20
Styrene	25.0	25.5		ug/L		102	76 - 116	0	20
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	81 - 121	1	20
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		110	70 - 115	3	20
Tetrachloroethene	25.0	26.1		ug/L		105	81 - 130	2	20
Toluene	25.0	25.5		ug/L		102	75 - 120	0	20
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	87 - 123	3	20

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

Lab Sample ID: LCSD 720-257216/6
Matrix: Water
Analysis Batch: 257216

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
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	78 - 120	3	20
1,1,1-Trichloroethane	25.0	26.6		ug/L		107	74 - 130	0	20
1,1,2-Trichloroethane	25.0	28.3		ug/L		113	80 - 117	3	20
Trichloroethene	25.0	26.4		ug/L		105	80 - 123	0	20
Trichlorofluoromethane	25.0	25.0		ug/L		100	75 - 141	2	20
1,2,3-Trichloropropane	25.0	25.8		ug/L		103	77 - 120	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5		ug/L		106	70 - 133	3	20
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	75 - 115	0	20
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	77 - 117	1	20
Vinyl acetate	25.0	23.9		ug/L		96	50 - 126	1	20
Vinyl chloride	25.0	25.6		ug/L		103	58 - 138	2	20
m-Xylene & p-Xylene	25.0	25.9		ug/L		103	74 - 119	1	20
o-Xylene	25.0	26.8		ug/L		107	77 - 118	1	20
2,2-Dichloropropane	25.0	26.2		ug/L		105	74 - 156	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

GC/MS VOA

Analysis Batch: 257057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90321-4	J6038-EB-121418	Total/NA	Water	8260B	
MB 720-257057/4	Method Blank	Total/NA	Water	8260B	
LCS 720-257057/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-257057/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 257059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90321-1	J6038-TRIPBLANK-121418	Total/NA	Water	8260B	
MB 720-257059/4	Method Blank	Total/NA	Water	8260B	
LCS 720-257059/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-257059/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 257144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90321-2	J6038-T-25BD-121418	Total/NA	Water	8260B	
720-90321-3	J6038-T-25BS-121418	Total/NA	Water	8260B	
MB 720-257144/4	Method Blank	Total/NA	Water	8260B	
LCS 720-257144/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-257144/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 257216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90321-4	J6038-EB-121418	Total/NA	Water	8260B	
MB 720-257216/4	Method Blank	Total/NA	Water	8260B	
LCS 720-257216/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-257216/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Client Sample ID: J6038-TRIPBLANK-121418

Lab Sample ID: 720-90321-1

Date Collected: 12/14/18 09:00
Date Received: 12/14/18 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	257059	12/17/18 17:20	AJS	TAL PLS

Client Sample ID: J6038-T-25BD-121418

Lab Sample ID: 720-90321-2

Date Collected: 12/14/18 09:27
Date Received: 12/14/18 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	257144	12/18/18 13:42	JD1	TAL PLS

Client Sample ID: J6038-T-25BS-121418

Lab Sample ID: 720-90321-3

Date Collected: 12/14/18 10:35
Date Received: 12/14/18 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	257144	12/18/18 13:14	JD1	TAL PLS

Client Sample ID: J6038-EB-121418

Lab Sample ID: 720-90321-4

Date Collected: 12/14/18 10:55
Date Received: 12/14/18 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	257216	12/19/18 12:03	A1C	TAL PLS
Total/NA	Analysis	8260B		1	257057	12/17/18 16:58	AJS	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

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

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
5030B	Purge and Trap	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: TRW Microwave

TestAmerica Job ID: 720-90321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90321-1	J6038-TRIPBLANK-121418	Water	12/14/18 09:00	12/14/18 16:30
720-90321-2	J6038-T-25BD-121418	Water	12/14/18 09:27	12/14/18 16:30
720-90321-3	J6038-T-25BS-121418	Water	12/14/18 10:35	12/14/18 16:30
720-90321-4	J6038-EB-121418	Water	12/14/18 10:55	12/14/18 16:30

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-90321

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: 187340

Date 12/14/18 Page 1 of 1

Report To

Attn: Holly Holbrook
Company: AECOM
Address: 499 W. Town & Country Rd. Orange, CA
Email: HOLLY.HOLBROOK@AECOM.COM
Bill To: NGC
Sampled By: Ryan Briniger
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
J6038-TripBlank-121418	12/14/18	0700	W	HCl	X																				
J6038-T-25Bd-121418	12/14/18	0927	W	HCl	X																				
J6038-T-25Bs-121418	12/14/18	1035	W	HCl	X																				
J6038-EB-121418	12/14/18	1055	W	HCl	X																				

720-90321 Chain of Custody

Project Info.

Project Name/ #: 60592696
PO#:
Credit Card Y/N If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other: Standard

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1115	Signature: [signature] Time: 1400	Signature: Time:
Printed Name: Ryan Briniger Date: 12/14/18	Printed Name: K.C.H. Date: 12-14-18	Printed Name: Date:
Company: AECOM	Company: TA PLS	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1115	Signature: [signature] Time: 1900	Signature: Time:
Printed Name: K.C.H. Date: 12-14-18	Printed Name: Dennis Argue Date: 12-14-18	Printed Name: Date:
Company: TA PLS	Company: TA-PLS	Company:

3C

Rev.11/2014

12/21/2018

Page 40 of 41

ED_013761_00001459-00263

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 720-90321-1

Login Number: 90321
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

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	