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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,4-DCBZ	1,4-dichlorobenzene
1,1-DCE	1,1-dichloroethene
A/E	Architect/Engineering
AFWBZ	Alameda Formation Water-Bearing Zone
AVGAS	aviation gasoline
AWQC	Ambient Water Quality Criteria
BCT	Base Closure Team
bgs	below ground surface
BRAC	Base Realignment and Closure
BSU	Bay Sediment Unit
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAN	Container Storage Area
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	contaminant of potential concern
CTO	Contract Task Order
cis-1,2-DCE	cis-1,2-dichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
EBS	Environmental Baseline Survey
EBMUD	East Bay Municipal Utility District
E&E	Ecology & Environment, Inc
EPA	United States Environmental Protection Agency
FISCA	Fleet and Industrial Supply Center Oakland, Alameda Facility/Alameda Annex
FWBZ	First Water-Bearing Zone
HSZ	hydrostratigraphic zone
ID/IQ	Indefinite Delivery/Indefinite Quantity
IDW	investigation-derived waste
IR	Installation Restoration
IT	IT Corporation
ITSI	Innovative Technical Solutions, Inc.
IWTP	Industrial Wastewater Treatment Plant

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

LEL	lower explosive limit
MCL	maximum contaminant level
mg/L	milligrams per liter
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
MTBE	methyl tertiary-butyl ether
NAS	Naval Air Station
Navy	U.S. Department of the Navy
NOAA	National Oceanic and Atmospheric Administration
ORP	oxidation-reduction potential
OU	operable unit
OWS	oil/water separator
PAH	polycyclic aromatic hydrocarbon
PBSP	Petroleum Basewide Sampling Program
pCi/L	picocuries per liter
PCB	polychlorinated biphenyls
PCE	tetrachloroethene
PMO	Program Management Office
Ppb	parts per billion
ppbv	parts per billion by volume
QC	quality control
RCRA	Resource Conservation and Recovery Act
RWQCB	Regional Water Quality Control Board, San Francisco Bay
Shaw	Shaw Environmental, Inc.
SIM	Selective Ion Monitoring
SVOC	semi-volatile organic compound
SWBZ	Second Water-Bearing Zone
TCE	trichloroethene
TDS	total dissolved solids
Tetra Tech	Tetra Tech Environmental Management, Inc.
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOC	volatile organic compound
YBM	Yerba Buena Mud

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report has been prepared by Innovative Technical Solutions, Inc. (ITSI), on behalf of the U.S. Department of the Navy (Navy), Base Realignment and Closure (BRAC) Program Management Office (PMO) West, San Diego, California, under Architect/Engineering (A/E) Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract Number N68711-02-D-8213, Contract Task Order (CTO) 0016. This Report presents the results of the Basewide Groundwater Monitoring Program activities at the former Naval Air Station (NAS) Alameda, now referred to as Alameda Point. Alameda Point is located on the western end of the Island of Alameda, on the eastern side of the San Francisco Bay, and is separated from the City of Oakland by the Oakland Inner Harbor, which opens to San Francisco Bay (Figure 1-1).

This report presents the results of the past year of groundwater and soil gas sampling under the basewide monitoring program. The analytical data generated from this monitoring program provide additional information on the presence and distribution of contaminants in groundwater and in the vadose zone and is intended to complement other information generated by ongoing site investigations and remedial actions. Sampling for the Groundwater Monitoring Program was conducted in accordance with the sampling approach and sampling design presented in the Final Work Plan (Shaw Environmental Inc. [Shaw], 2004), the ITSI SAP Addendum 02 (ITSI, 2004) and the Technical Memorandum (ITSI, 2005), and is more fully described in Section 2.4. These monitoring activities are being conducted within the National Priority-listed portion of Alameda Point in Alameda, California, except for those at Installation Restoration (IR) 25, where monitoring activities extend onto the former Fleet and Industrial Supply Center Oakland, Alameda Facility/Alameda Annex [FISCA] property, which is not on the National Priority List. Figure 1-2 presents the Installation Restoration sites and monitoring well locations at Alameda Point.

1.1 OBJECTIVES

The Alameda Basewide Groundwater Monitoring Program provides groundwater and soil gas analytical data to be used, in conjunction with other information generated by ongoing site investigations and remedial actions, to define the nature and extent of contamination in

groundwater at Alameda Point. Thirteen IR sites within Alameda Point (in eight separate Operable Units) were monitored for groundwater quality and three IR sites were monitored for soil gas in the vadose zone.

1.2 PROGRAM OVERVIEW

A number of individual or commingled groundwater plumes have been identified for inclusion in the basewide monitoring program. The plumes generally consist of chlorinated constituents, petroleum hydrocarbons, fuel-related compounds, metals, or a combination of these contaminants. In order to monitor these plumes, groundwater samples are collected from selected existing monitoring wells and analyzed for site-specific parameters at an off-site analytical laboratory. Table 1-1 summarizes the selected chemical characterization constituents, natural attenuation parameters, and the sampling frequency for each IR site. To the extent practicable, considering site access conditions and other logistics, sampling was initiated at or outside the assumed plume boundaries (i.e., the least-contaminated monitoring wells) and then working inward.

1.3 SUMMER 2006 THROUGH SPRING 2007 GROUNDWATER MONITORING PROGRAM

The sampling year discussed in this report covers the time period beginning with Summer 2006 through Spring 2007 and includes four separate sampling events:

- Summer 2006 (June 2006)
- Fall 2006 (September-October 2006)
- Winter 2006 (December 2006)
- Spring 2007 (March 2007).

The Basewide Groundwater Monitoring Program sampling matrix is shown on Table 1-1. The current sampling program was the product of negotiations between the Navy and the Alameda Base Closure Team (BCT). Recommended changes to the original Basewide Groundwater Monitoring Program were agreed to during a groundwater technical session held by the Navy and the BCT on February 8, 2006. No changes were made to the landfill gas sampling, other than the reduction of the sampling frequency for Fixed Gases at IR Site 25 Group from quarterly to annual, in accordance with the original Shaw Work Plan. The schedule for landfill soil gas sampling is presented in Table 1-2.

Most of the wells in the current program are sampled on a semiannual basis, with annual sampling for selected analytes, most notably natural attenuation parameters. The semiannual events are timed to coincide with the seasonal periods of high (Spring) and low (Fall) groundwater elevation, with annual sampling conducted during the Spring event. Additionally, groundwater elevation measurements are taken on a quarterly basis for approximately 300 wells basewide, and new wells are generally sampled quarterly during their first two years in the program. A total of nine wells (5 at IR Site 3 Group and 4 at IR Site 28) continue to be sampled on a quarterly basis.

The current program schedule was initiated in Spring 2006, and followed throughout the current sampling year. The field sampling activities were consistent with the procedures and guidelines described in the Final Work Plan (Shaw, 2004). The following minor deviations from the scheduled sampling were implemented with Navy approval during the Spring 2007 sampling event in order to avoid duplication of sampling efforts and analytical costs between the Basewide Program and an ongoing CERCLA Data Gap Investigation running concurrently at selected sites:

- Analysis for 1, 4-dioxane was added for six wells within IR Site 3 Group (operable unit [OU]-2B): M03-10, M03-15, M03-16, MW360-1, MW360-2, and MW360-4.
- Analysis for 1, 4-dioxane was added for three wells within IR Site 9 Group (OU-2A): MWD13-4, MW410-2, and MW410-3 (beginning Fall 2007).
- Sampling of eight wells within IR Site 5 Group (OU-2C) was deferred to the concurrent Data Gap Investigation.

Analytical data for the Spring 2007 sampling event, including the results for field duplicates and quality control samples listed by IR Site, are presented in Appendix A. Data quality issues pertaining to the current sampling year are discussed in Appendix B. Field forms for the 2006–2007 sampling events are included in Appendix C.

1.4 REPORT ORGANIZATION

The Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report is organized into the following Sections, as described below:

- **Section 1, Introduction:** This section states the overall objectives of the project, gives a brief program overview, describes the groundwater monitoring and landfill gas sampling program for the current year and presents the report organization.
- **Section 2, Site Hydrogeology and Groundwater Monitoring:** This section briefly summarizes site hydrogeology, beneficial use determination and tidal influence studies and presents a description of sampling methodology and analytical strategy for collecting groundwater, vapor (landfill gas and soil gas), and investigation-derived waste (IDW) samples during the Basewide Groundwater Monitoring Program.
- **Section 3, Operable Unit 1:** This section presents the results of groundwater level measurement and groundwater monitoring well sampling and analysis for Operable Unit (OU) 1 during the Summer 2006 through Spring 2007 sampling year. The OU-1 sites included in the Basewide Groundwater Monitoring Program are Installation Restoration (IR) Site 6, IR Site 7, IR Site 8, IR Site 14, and IR Site 16.
- **Section 4, Operable Unit 2A:** This section presents the results of groundwater level measurement and groundwater monitoring well sampling and analysis for OU-2A during the Summer 2006 through Spring 2007 sampling year. The OU-2A sites included in the Basewide Groundwater Monitoring Program are IR Site 9, IR Site 13, IR Site 19, IR Site 22, and IR Site 23. These sites are collectively referred to as the IR Site 9 Group.
- **Section 5, Operable Unit 2B:** This section presents the results of groundwater level measurement and groundwater monitoring well sampling and analysis for OU-2B during the Summer 2006 through Spring 2007 sampling year. The OU-2B sites included in the Basewide Groundwater Monitoring Program are IR Site 3, IR Site 4, IR Site 11, and IR Site 21. These sites are collectively referred to as the IR Site 3 Group.
- **Section 6, Operable Unit 2C:** This section presents the results of groundwater level measurement and groundwater monitoring well sampling and analysis for OU-2C during the Summer 2006 through Spring 2007 sampling year. The OU-2C sites included in the Basewide Groundwater Monitoring Program are IR Site 5, IR Site 10, and IR Site 12. These sites are collectively referred to as the IR Site 5 Group.
- **Section 7, Operable Unit 3:** This section presents the results of groundwater level measurement, groundwater monitoring well sampling and analysis, and landfill gas sampling and analysis for OU-3 during the Summer 2006 through Spring 2007 sampling year. OU-3 is comprised of IR Site 1 and IR Site 32.
- **Section 8, Operable Unit 4A:** This section presents the results of groundwater level measurement, groundwater monitoring well sampling and analysis, and landfill gas sampling and analysis for OU-4A during the Summer 2006 through Spring 2007 sampling year. OU-4A is comprised of IR Site 2.

- **Section 9, Operable Unit 5:** This section presents the results of groundwater level measurement, groundwater monitoring well sampling and analysis, and landfill gas sampling and analysis for OU-5 during the Summer 2006 through Spring 2007 sampling year. OU-5 is comprised of IR Site 25.
- **Section 10, Operable Unit 6:** This section presents the results of groundwater level measurement and groundwater monitoring well sampling and analysis for OU-6 during the Summer 2006 through Spring 2007 sampling year. The OU-6 sites included in the Basewide Groundwater Monitoring Program are IR Site 27 and IR Site 28. IR Site 26 wells are monitored for groundwater elevations only.
- **Section 11, Summary of Recommendations:** This section summarizes recommended changes to the Basewide Groundwater Monitoring Program.
- **Section 12, References:** This section lists references used in preparation of the Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report and those cited in the text.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 1-1

ALAMEDA POINT
Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency 2006 through 2007

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
Operable Unit 1																												
IR Site 6	13-MW-03	FWBZ			S	S																						
IR Site 6	M06-01	FWBZ			S	S																						
IR Site 6	M06-02	FWBZ			S	S																						
IR Site 6	M06-03	FWBZ	A	A	S	S					A			A	A	A	A	A										
IR Site 6	M06-05	FWBZ	A	A	S	S					A			A	A	A	A	A										
IR Site 6	M06-06	FWBZ	A	A	S	S					A			A	A	A	A	A										
IR Site 6	M06-07	FWBZ			S	S	S							A	A	A	A	A										
IR Site 7	M07A-03	FWBZ	S	S	S			S			S			A	A	A	A	A										
IR Site 7	M07A-10	FWBZ	S	S	S			S			S			A	A	A	A	A										
IR Site 8	M08-01	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-03	FWBZ	S	S	S	S			S		S[1]			A	A	A	A	A										
IR Site 8	M08-05	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-06	FWBZ	S	S	S	S			S		S[1]			A	A	A	A	A										
IR Site 8	M08-07	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-08	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	D08-01	SWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 14	M101-A	FWBZ	S	S	S						S[1]			A	A	A	A	A										
IR Site 14	M14-01	FWBZ	S	S	S						S[1]			A	A	A	A	A										
IR Site 16	608MJ-MW2	FWBZ	S	S	S	S			S	S	S[1]			A	A	A	A	A										
IR Site 16	F16SS-MW06	FWBZ			S	S			S	S				A	A	A	A	A										
IR Site 16	MW16-05	FWBZ			S	S			S	S	S[1]			A	A	A	A	A										
IR Site 16	MW16-06	FWBZ			S	S			S	S	S[1]			A	A	A	A	A										
IR Site 16	MWC2-3	FWBZ	S	S	S	S			S	S	S[1]			A	A	A	A	A										

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ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency 2006 through 2007

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES									
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
Operable Unit 2A																												
IR Site 9	M07C-08	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	M13-06	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	M13-07	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	M13-08	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	M13-09	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	MW410-1	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	MW410-2	FWBZ	S	S	S	S[1]					A[1]			A	A	A	A	A										
IR Site 9	MW410-3	FWBZ	S	S	S	S[1]					A[1]			A	A	A	A	A										
IR Site 9	MW410-4	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	MWD13-3	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	MWD13-4	FWBZ	S	S	S	S[1]					A[1]			A	A	A	A	A										
IR Site 9	MWOR-4	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	D07C-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D09-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D10B-02	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D13-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D19-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
Operable Unit 2B																												
IR Site 3	372-MW1	FWBZ	A	A	A						A[1]			A	A	A	A	A	A										
IR Site 3	398-MW4	FWBZ	S	S	S						S[1]			A	A	A	A	A	A										
IR Site 3	M03-04	FWBZ	S	S	S						S[1]				A				A										
IR Site 3	M03-05	FWBZ	S	S	S						S[1]			A	A	A	A	A	A										
IR Site 3	M03-06	FWBZ	S	S	S						S[1]			A	A	A	A	A	A										
IR Site 3	M03-07	FWBZ	S	S	S						S[1]				A														
IR Site 3	M03-09	FWBZ	S	S	S						S[1]																		

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ALAMEDA POINT
Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency 2006 through 2007

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 *Modified*)	COMMENTS
IR Site 3	M03-10	FWBZ	S	S	S	S[2]					S[1]																	
IR Site 3	M03-11	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-12	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-13	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-14	FWBZ			S																							
IR Site 3	M03-15	FWBZ			S	S[2]					S																	
IR Site 3	M03-16	FWBZ			S	S[2]					S																	
IR Site 3	M04-05	FWBZ	S	S	S						S[1]			A	A	A	A	A	A									
IR Site 3	M04-06	FWBZ	S	S	S						S[1]				A				A									
IR Site 3	M07B-01	FWBZ	A	A	A						A[1]				A			A	A									
IR Site 3	M11-01	FWBZ									S[1]																	
IR Site 3	M11-04	FWBZ	S	S	S						S[1]				A				A									
IR Site 3	M11-05	FWBZ	S	S	S						S[1]			A	A	A	A	A	A									
IR Site 3	M11-06	FWBZ	S	S	S						S[1]				A				A									
IR Site 3	MW360-1	FWBZ	A	A	A	A[2]					A[1]				A				A									
IR Site 3	MW360-2	FWBZ	S	S	S	S[2]					S[1]			A	A	A	A	A	A									
IR Site 3	MW360-3	FWBZ	S	S	S						S[1]				A				A									
IR Site 3	MW360-4	FWBZ	A	A	A	A[2]					A[1]				A				A									
IR Site 3	MW97-3	FWBZ	S	S	S						S[1]				A				A									
IR Site 3	OU2B-MW01	FWBZ	S	S	S						Q			A	A	A	A	A	A									
IR Site 3	OU2B-MW02	FWBZ	S	S	S						Q				A				A									
IR Site 3	OU2B-MW03	FWBZ	S	S	S						Q				A				A									
IR Site 3	OU2B-MW04	FWBZ	S	S	S						Q				A				A									
IR Site 3	OU2B-MW05	FWBZ	S	S	S						Q			A	A	A	A	A	A									
IR Site 3	D03-01	SWBZ	S	S	A						S[1]				A				A									
IR Site 3	D03-02	SWBZ			S						S																	

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Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency 2006 through 2007

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES									
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 3	D03-03	SWBZ			A						S																	
IR Site 3	D03-04	SWBZ			A						S																	
IR Site 3	D04-01	SWBZ	A	A	A						A[1]			A	A	A	A	A	A									
IR Site 3	D04-02	SWBZ	A	A	A						A[1]			A	A	A	A	A	A									
IR Site 3	D04-03	SWBZ	S	S	S						S[1]				A				A									
IR Site 3	D11-01	SWBZ	S	S	A						S[1]			A	A	A	A	A	A									
Operable Unit 2C																												
IR Site 5	2MW8S	FWBZ	S	S	S		A	A	S		S[1]	S		A	A	A	A	A										
IR Site 5	M05-02	FWBZ			S*						S*																	
IR Site 5	M05-04	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M05-05	FWBZ	S*	S*	S*						S[1]	S*		A*	A*	A*	A*	A*										
IR Site 5	M05-06	FWBZ	S*	S*	S*						S[1]	S*																
IR Site 5	M05-08	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M05-09	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M05-11	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M05HW-01	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M10-01	FWBZ	S	S	S				S		S[1]	S		A	A	A	A	A										
IR Site 5	M10-02	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M117-E	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M12-04	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	D05-01	SWBZ	A*	A*	A*						A[1*]	A*		A*	A*	A*	A*	A*										
IR Site 5	D05-03	SWBZ	S*	S*	S*						S[1]	S*																
IR Site 5	D05-04	SWBZ			S*										A*	A*	A*	A*										
IR Site 5	D05-05	SWBZ			S*										A*	A*	A*	A*										
IR Site 5	D05-06	SWBZ			S										A	A	A	A										
IR Site 5	D12-01	SWBZ	A	A	A						A[1]	A		A	A	A	A	A										

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Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency 2006 through 2007

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
Operable Unit 3																												
IR Site 1	M001-A	FWBZ									A		A															
IR Site 1	M001-E	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M002-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M003-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M004-A	FWBZ												A	A	A	A	A	A									
IR Site 1	M005-A	FWBZ			S															S	S	S	S	S	S	S	S	
IR Site 1	M006-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M007-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M025-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M026-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M027-A	FWBZ			S		A		A	A	A		A	A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M028-A	FWBZ							A		A									S	S	S	S	S	S	S	S	
IR Site 1	M028-E	FWBZ			S		A		A	A	A		A	A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M029-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M030-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M031-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M032-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M033-A	FWBZ			S		A				A		A	A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M034-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M035-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M001-B	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M003-B	SWBZ			A						A			A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M025-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M027-B	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M027-C	SWBZ			A						A									S	S	S	S	S	S	S	S	

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IR Site 1	M028-C	SWBZ			A						A			A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M030-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M031-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
Operable Unit 4A																													
IR Site 2	442-MW1	FWBZ	S	S	S		A	A	S	A	S				A	A	A			S	S	S	S	S	S	S	S	
IR Site 2	M010-A	FWBZ			S																								
IR Site 2	M011-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M012-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M013-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M014-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M016-A	FWBZ	S	S	S		A	A	S	A					A	A	A		A									
IR Site 2	M016-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M017-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M018-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M018-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M019-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M019-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M020-A	FWBZ	S	S	S		A	A	S	A	S																	
IR Site 2	M020-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M021-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M021-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M022-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M022-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M023-A	FWBZ	S	S	S			A	S	A	S																	
IR Site 2	M023-E	FWBZ					A				S									S	S	S	S	S	S	S	S	
IR Site 2	M024-A	FWBZ	S	S	S		A	A	S	A	S																	

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IR Site 2	M024-E	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M036-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A									
IR Site 2	M036-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M037-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A									
IR Site 2	M037-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M038-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A									
IR Site 2	M038-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M039-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M010-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M012-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M013-C	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M014-B	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M016-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M020-B	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M021-C	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M023-B	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M023-C	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M036-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M037-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M038-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M039-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
Operable Unit 5																												
IR Site 25	M25-01	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-02	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-04	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-05	FWBZ			S			S			S			A	A	A	A	A										

Table 1-1

ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency 2006 through 2007

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 25	M25-06	FWBZ			S			S																				
IR Site 25	M25-07	FWBZ			S			S																				
IR Site 25	M25-08	FWBZ			S			S																				
IR Site 25	M25-09	FWBZ			S			S			S			A	A	A	A	A										Replacement for M25-03
IR Site 25	P181-MW45	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	P181-MW46	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	P181-MW47	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	PW-12	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	S-16-R	FWBZ			S			S			S			A	A	A	A	A										Replacement for S-16
IR Site 25	S-35R-2	FWBZ			S			S			S			A	A	A	A	A										Replacement for S-35
IR Site 25	D-02R	SWBZ			A			A			S			A	A	A	A	A										
Operable Unit 6																												
IR Site 27	15-MW1	FWBZ		S	S						S^1			A	A	A	A	A										
IR Site 27	15-MW2	FWBZ		S	S						S^1			A	A	A	A	A										
IR Site 27	15-MW3	FWBZ		S	S						S^1			A	A	A	A	A										
IR Site 27	27MW06	FWBZ		S	S						S^1			A	A	A	A											
IR Site 28	28SW01	FWBZ									Q	Q							Q									
IR Site 28	28SW02	FWBZ									Q	Q							Q									
IR Site 28	28SW03	FWBZ									Q	Q							Q									
IR Site 28	28SW04	FWBZ									Q	Q							Q									

Notes:

Analyte list based on Final Work Plan, Table 3-3a, with modifications per BCT.
FWBZ = First Water-Bearing Zone
SWBZ = Second Water-Bearing Zone

Q = Quarterly
S = Semiannual
A = Annual
[1] Priority Pollutant Metals Only
[2] Spring 2007 only

* Well NOT SAMPLED during scheduled Spring 2007 Event due to Supplemental RI Sampling

Table 1-2 **Schedule for Landfill Gas Sampling at Alameda Point**

					Soil Gas	
AREA	SAMPLE LOCATION	WATER-BEARING ZONE	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (TO15)	Fixed Gases by ASTM D1946 & TO-3 modified
IR Site 1	MG1-01-S	Vadose	Landfill	2 - 4	Q	A
IR Site 1	MG1-01-D	Vadose	Landfill	5 - 7	Q	A
IR Site 1	MG1-02-S	Vadose	Landfill	1 - 3	Q	A
IR Site 1	MG1-02-D	Vadose	Landfill	4 - 6	Q	A
IR Site 1	MG1-03-S	Vadose	Landfill	0 - 1	Q	A
IR Site 1	MG1-03-D	Vadose	Landfill	2 - 4	Q	A
IR Site 1	MG1-04-S	Vadose	Landfill	0 - 2	Q	A
IR Site 1	MG1-04-D	Vadose	Landfill	2.5 - 4.5	Q	A
IR Site 1	MG1-05-S	Vadose	Landfill	0.4 - 2.4	Q	A
IR Site 1	MG1-05-D	Vadose	Landfill	3 - 5	Q	A
IR Site 2	MG2-01-S	Vadose	Landfill	0.5 - 1.8	Q	A
IR Site 2	MG2-01-D	Vadose	Landfill	2.5 - 4	Q	A
IR Site 2	MG2-02-S	Vadose	Landfill	2 - 3	Q	A
IR Site 2	MG2-02-M	Vadose	Landfill	4.5 - 6	Q	A
IR Site 2	MG2-02-D	Vadose	Landfill	7 - 9	Q	A
IR Site 2	MG2-03-S	Vadose	Landfill	0.5 - 2	Q	A
IR Site 2	MG2-03-M	Vadose	Landfill	2.5 - 3.5	Q	A
IR Site 2	MG2-03-D	Vadose	Landfill	4.5 - 6	Q	A
IR Site 2	MG2-04-S	Vadose	Landfill	1.8 - 2.3	Q	A
IR Site 2	MG2-04-M	Vadose	Landfill	3.8 - 5.3	Q	A
IR Site 2	MG2-04-D	Vadose	Landfill	6.3 - 7.8	Q	A
IR Site 2	MG2-05-S	Vadose	Landfill	1 - 2.5	Q	A
IR Site 2	MG2-05-D	Vadose	Landfill	3.5 - 5	Q	A
IR Site 25 Group	OU5-SG-16-S	Vadose	Fill	3 - 3.5	Q	A
IR Site 25 Group	OU5-SG-16-D	Vadose	Fill	4.5 - 6	Q	A
IR Site 25 Group	OU5-SG-17-S	Vadose	Fill	1 - 2.5	Q	A
IR Site 25 Group	OU5-SG-17-D	Vadose	Fill	3.5 - 5	Q	A
IR Site 25 Group	OU5-SG-18-S	Vadose	Fill	2 - 4	Q	A
IR Site 25 Group	OU5-SG-18-D	Vadose	Fill	5 - 7	Q	A
IR Site 25 Group	OU5-SG-19-S	Vadose	Fill	1.5 - 3.5	Q	A
IR Site 25 Group	OU5-SG-19-D	Vadose	Fill	4.5 - 6.5	Q	A
IR Site 25 Group	OU5-SG-20-S	Vadose	Fill	2 - 4	Q	A
IR Site 25 Group	OU5-SG-20-D	Vadose	Fill	6 - 8	Q	A

Notes:

Q Well sampled for this parameter on a quarterly schedule.

A Well sampled for this parameter on an annual schedule.

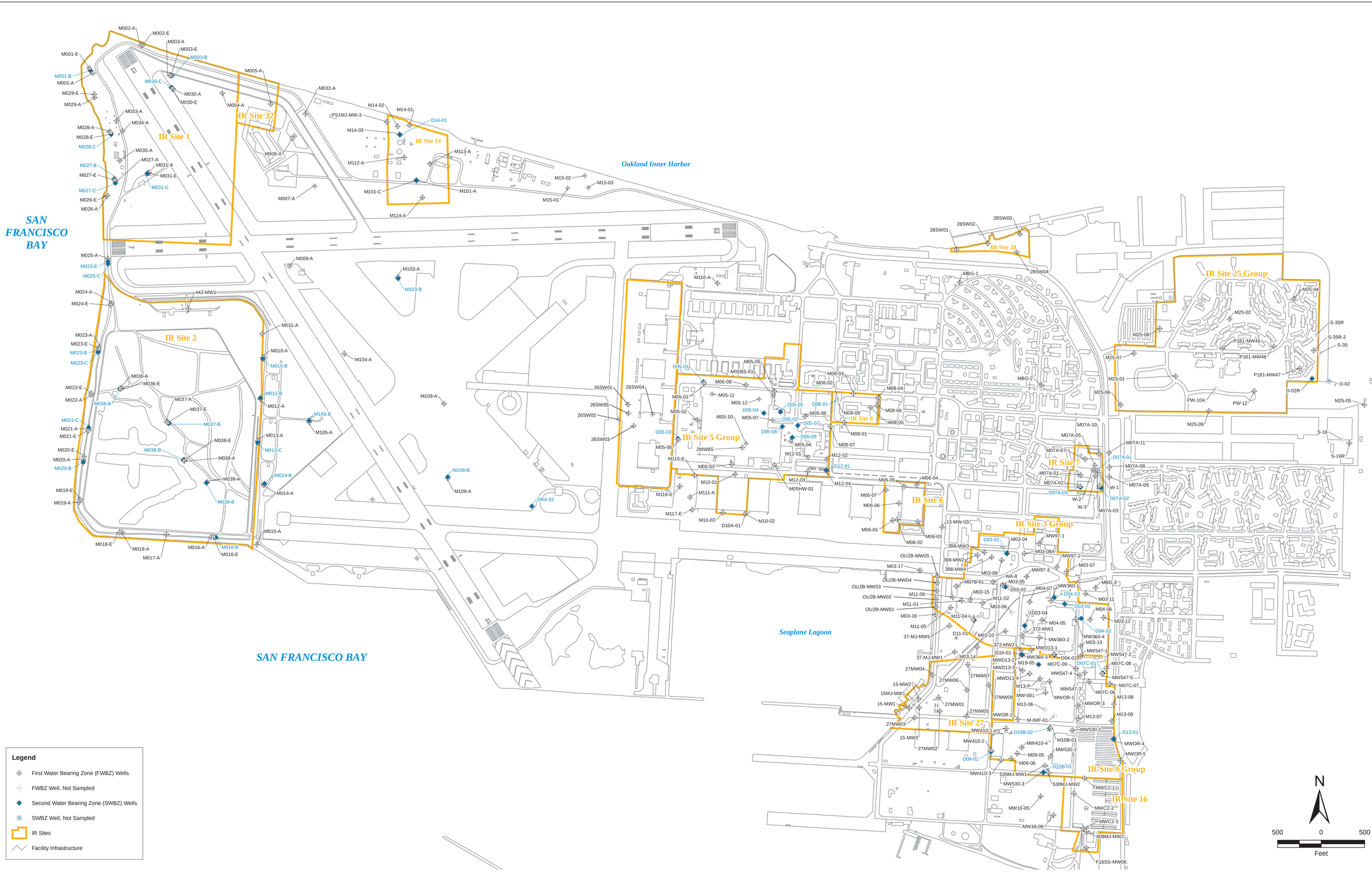
N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 1-1** FACILITY LOCATION MAP



Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 1-2
BASEWIDE WELL LOCATION MAP

2002 Projects\02-125-11\Graphics\Alameda Point GIS\2005 Maps\O Size Well Maps.mxd

2.0 SITE HYDROGEOLOGY AND GROUNDWATER MONITORING

This section presents the site hydrogeology and groundwater beneficial use determinations, summarizes recent tidal influence studies and describes the sampling methodology and analytical strategy for collecting groundwater, vapor (landfill gas and soil gas), and investigation-derived waste (IDW) samples during the Basewide Groundwater Monitoring Program.

2.1 HYDROGEOLOGY

Five distinct hydrostratigraphic zones (HSZs) have been recognized at Alameda Point, as follows:

- **First Water-Bearing Zone (FWBZ)**: shallow unconfined groundwater in Artificial Fill, the coarse-grained Bay Sediment unit (BSU) and locally, the upper Merritt Sand. Divided into two hydrologically distinct subintervals in some areas: FWBZ-upper (Artificial Fill) and FWBZ-lower (BSU sands and upper Merritt Sand). First encountered groundwater in the FWBZ is found at depths of 2 to 8 feet below ground surface (bgs). Potentiometric surface elevations for the FWBZ range from 2 to more than 11 feet above mean sea level (msl). The FWBZ is tidally influenced for approximately 250 to 300 feet inland on the northern and southern sides of the Island of Alameda, and approximately 1,000 to 1,500 feet inland on the west side.
- **Bay Sediment Unit (BSU)** Semi-Confining Layer: in areas where silts and clays of the BSU are of sufficient thickness, the unit acts as a confining to semi-confining layer between the FWBZ and the underlying Second Water-Bearing Zone (SWBZ). The BSU is not an effective aquitard in the southeastern portion of Alameda Point, where it is thin or not present at all.
- **Second Water-Bearing Zone (SWBZ)**: confined to semi-confined groundwater in Merritt Sand (where present) and the upper unit of the San Antonio Formation. Divided into two hydrogeologic subintervals: SWBZ-upper (Merritt Sand) and SWBZ-lower (Upper San Antonio Formation). Where the BSU is thin or absent, hydrologic isolation between the FWBZ and SWBZ has not been clearly established. Where the BSU is significantly thickened (representing deposition within paleochannels in the central portion of Alameda Point), the FWBZ-SWBZ zones are not clearly defined. The SWBZ is strongly tidally influenced in the vicinity of Seaplane Lagoon in the central, southwest, and southeast portions of Alameda Point. Available slug test-derived hydraulic conductivity estimates for the SWBZ are 1.8 to 5.3 feet per day.
- **Yerba Buena Mud (YBM)** Aquitard: a regionally continuous layer that forms a well-known regional aquitard. At Alameda Point, the unit is approximately 35 feet thick and is encountered at depths between 80 and 120 feet bgs. The YBM is

an effective confining layer between the relatively saline groundwater of the SWBZ and the underlying freshwater Alameda Formation Water-Bearing Zone.

- **Alameda Formation Water-Bearing Zone (AFWBZ)**: deep groundwater underlying the YBM Aquitard in Alameda Formation sediments. Little is known about the hydraulic properties of the deep aquifer system at Alameda Point.

Groundwater elevations and flow directions vary in the FWBZ at Alameda Point. The western portion of Alameda Point exhibits high groundwater elevations with apparent groundwater mounding in the central runway area. Groundwater flow in the central portion of Alameda Point appears to be toward the northwest, away from Seaplane Lagoon. Groundwater in the eastern part of central Alameda Point appears to be strongly influenced by former channels that were filled with dredged materials. Groundwater flow in southeastern Alameda Point is generally toward Seaplane Lagoon, but exhibits complex patterns near the historical island surface. In industrial areas, underground utility corridors may affect groundwater flow.

Local horizontal hydraulic gradients in the FWBZ range from 0.001 to 0.003 feet per foot. Vertical gradients have been observed between the FWBZ-upper and FWBZ-lower subintervals. The direction of vertical groundwater flow (up or down) in the FWBZ is primarily influenced by seasonal factors, e.g. precipitation and evapotranspiration (Shaw, 2004).

2.2 BENEFICIAL USE DETERMINATION

This summary of the beneficial use determination conducted for Alameda Point is based on the information provided in the Final Work Plan for the Basewide Groundwater Monitoring (Shaw, 2004); additional details are provided in that document and documents referenced therein. The beneficial use study *(Determination of the Beneficial Uses of Groundwater at Alameda Point, Alameda, California)* (Tetra Tech Environmental Management, Inc. [Tetra Tech], 2000) classified groundwater across the site based on the Guidelines of Groundwater Classification under the Environmental Protection Agency (EPA) Groundwater Protection Strategy (EPA, 1988). Criteria used to classify groundwater were total dissolved solids (TDS) and minimum well yield. The classifications are:

- Class I - an irreplaceable source of drinking water or ecologically vital
- Class II - current or potential source of drinking water and has other beneficial use
- Class III - not a potential source of drinking water and has limited beneficial use.

In the western portion of Alameda Point, the FWBZ beneath Sites 1, 14, and 15 is Class II groundwater based on federal TDS and yield criteria, while groundwater beneath Site 2 is Class III. The SWBZ within the western area is designated Class III groundwater, because TDS concentrations exceed 10,000 milligrams per liter (mg/L). The Class II groundwater in the western portion should not be considered a potential drinking water source for cleanup decisions in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) due to the following factors:

- Safe yield and maximum pumping rate are inadequate to support common uses of water as well as multiple domestic users.
- Existing saltwater intrusion at the base of the FWBZ would be accelerated by groundwater extraction.
- No supply wells currently exist within or downgradient of contaminated groundwater.
- No supply wells are likely to be installed within the golf course or landfill areas.
- State and county limitations restrict well construction due to a thin, vulnerable aquifer.

In consideration of these factors and planned property reuse, the Alameda Point Base Closure Team (BCT) concluded that the groundwater beneath Sites 1, 14, and 15 is unlikely to be used as a potential drinking water source.

The FWBZ in the central portion of Alameda Point beneath Sites 5, 6, 7, 8, 10, and 12 is Class II groundwater based on federal TDS and yield criteria. The FWBZ and the SWBZ groundwater at IR Site 25 are Class III because TDS concentrations exceed 10,000 mg/L. The Class II groundwater in the central portion should not be considered a potential drinking water source, based on the following factors:

- Safe yield and maximum pumping rate are inadequate to support common uses of water as well as multiple domestic users.
- Existing saltwater intrusion at the base of the FWBZ would be accelerated by groundwater extraction.
- No supply wells currently exist within, or downgradient of, contaminated groundwater.

- State and county limitations restrict well construction due to a thin, vulnerable aquifer.

In consideration of the other mitigating factors and property reuse, the BCT has concluded that groundwater beneath Sites 5, 6, 7, 8, 10, and 12 is unlikely to be used as a drinking water source. However, contaminant mass reduction is required in the central portion of Alameda Point to facilitate long-term contaminant attenuation and allow for other beneficial uses of groundwater.

Groundwater in the southeastern portion of Alameda Point beneath Sites 3, 4, 9, 11, 13, 16, 19, 21, 22, and 23 is Class II groundwater, based on federal TDS and yield criteria. The FWBZ in the southeastern region of Alameda Point is connected to a Class II water-bearing zone (Merritt Sand) that is a potential drinking water source for off-base wells. Sixty upgradient wells are screened in the Merritt Sand immediately east (up to 1 mile) of Alameda Point, with an additional 113 upgradient wells screened in the Merritt Sand located between 1 and 2 miles east-southeast of Alameda Point. The majority of the wells were installed during the 1970s to provide a supplemental source of irrigation water for nearby homeowners. The existence of these wells, in addition to the classification of the aquifer as Class II, makes the groundwater in this area a potential current drinking water source.

In addition, the San Francisco Bay Regional Water Quality Control Board (RWQCB) has recommended removing the drinking water supply use designation for groundwater beneath the entire western portion and groundwater beneath part of the central portion (west of IR Site 8) in accordance with the recently completed *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* (RWQCB, 1999), the *Proposed Groundwater Amendments to the Water Quality Control Plan (Basin Plan)* (RWQCB, 2000a), and *Board Resolution 00-024* (RWQCB, 2000b) due to the following:

- High TDS levels
- Existing saltwater intrusion
- Potential for additional saltwater intrusion
- Vulnerability of the groundwater to point and non-point sources of contamination
- Groundwater not reasonably expected to serve as a public drinking water supply.

2.3 TIDAL INFLUENCE STUDIES

A tidal influence study was conducted in Fall 2004 and documented in a report entitled *Fall 2004 Tidal Study for Installation Restoration Sites 1 and 2* (Shaw, 2006). The purpose of the study was to quantify the influence of tides on water levels in Alameda Point wells. The report concluded that groundwater monitoring wells near the San Francisco Bay shoreline at IR Sites 1 and 2 are moderately to strongly influenced by tidal fluctuations in San Francisco Bay. The magnitude of this tidal influence is quantified in terms of *tidal range and tidal efficiency*. Tidal range is the absolute difference in water elevation between low and high tide at a given point. Tidal efficiency is the tidal range in the groundwater at a specific monitoring well location divided by the tidal range at the adjacent shoreline. Tidal efficiency, expressed as a percentage, ranges anywhere from 0.3 to 90.9 percent at IR Site 1 and from 0.3 to 100 percent at IR Site 2. Any well with a tidal efficiency of 8 percent or greater is considered to be "tidally affected". Tidally-affected wells have tidal variations that can cause water levels to fluctuate by as much as 0.5 feet or greater (Shaw 2006). The tidally-affected wells at IR Sites 1 and 2 are listed below:

Installation Restoration Site 1			
Well	**Geologic Unit**	**Hydrologic Unit**	**Tidal Efficiency (percent)**
M002-A	FILL	FWBZ	14.3
M026-A	FILL	FWBZ	57
M029-A	FILL	FWBZ	8.7
M002-E	FILL	FWBZ	90.9
M025-E	FILL/BSU	SWBZ	52.6
M026-E	FILL/BSU	FWBZ	37
M030-E	FILL	FWBZ	10

Installation Restoration Site 2			
Well	**Geologic Unit**	**Hydrologic Unit**	**Tidal Efficiency (percent)**
M015-A	FILL	FWBZ	8.3
M016-A	FILL	FWBZ	20.8
M018-A	FILL	FWBZ	35.7
M019-A	FILL	FWBZ	33.3
M022-A	FILL	FWBZ	83.3
M023-A	FILL	FWBZ	37
M016-E	FILL	FWBZ	23.3
M019-E	BSU	FWBZ	100
M022-E	FILL	FWBZ	100
M023-E	FILL	FWBZ	73.8
M024-E	FILL	FWBZ	40

The tidally-affected wells are located mainly on the shoreline perimeters of the two IR Sites. Interior wells at these sites exhibit low to immeasurable tidal efficiencies.

In Spring 2006, an informal tidal study was conducted to evaluate whether near-shore FWBZ wells outside of IR Sites 1 and 2 are tidally affected. Pressure transducers were placed in 23 wells located throughout Alameda Point, to investigate areas where groundwater was considered to be potentially tidally affected. A few wells were purposely selected outside of suspected areas of tidal influence to act as controls on the investigation. Each transducer logged hourly groundwater-level measurements over the course of a 25-hour period. The transducers were then removed from their respective wells and the information collected was downloaded for evaluation. Of the 23 well locations included in the tidal study, 7 showed notable tidal influences, i.e., water levels in these wells showed sinusoidal fluctuations that mirrored the mixed-semidiurnal tides that characterize the San Francisco Bay. In all cases the tidally-influenced wells were within 100 feet of the shoreline. The results of the informal tidal investigation are summarized below:

IR Site	Well ID	Geologic Unit	Tidally-Affected?
3	372-MW1	Fill	NO
3	M03-04	Fill-BSU	NO
3	M07B-01	Fill-BSU	NO
3	M11-05	Fill-BSU-Upper Merritt	NO
3	**OU2B-MW-01**	**Fill-Upper Merritt**	**YES**
3	**OU2B-MW-05**	**Fill-Upper Merritt**	**YES**
5	M10-02	Fill	NO
5	M117-E	Fill-BSU	NO
6	M06-03	Fill	NO
9	MW410-2	Fill-BSU	NO
9	MWOR2	Fill-BSU	NO
14	M101-A	Fill	NO
14	**M14-01**	**Fill-BSU**	**YES**
14	M14-03	Fill-BSU	NO
16	608MJ-MW2	Fill-BSU	NO
16	MW16-06	Fill-BSU	NO
25	M25-02	Fill-BSU	NO
25	M25-04	Fill-BSU	NO
27	**15-MW1**	**Fill-BSU**	**YES**
27	**15-MW2**	**Fill-BSU**	**YES**
27	27-MW05	Fill-BSU	NO
28	**28SW01**	**Fill-BSU**	**YES**
28	**28SW03**	**Fill-BSU**	**YES**

Tidal efficiencies were calculated for the tidally-influenced wells with the following results:

Summary of Study Well Tidal Efficiencies – Spring 2006

Well ID	IR Site	Tidal Efficiency	% Tidal Efficiency
OU2B-MW01	3	0.197	19.7
OU2B-MW05	3	0.194	19.4
M14-01	14	0.518	51.8
15-MW1	27	0.500	50.0
15-MW2	27	0.511	51.1
28SW01	28	0.107	10.7
28SW03	28	0.516	51.6

The results for the tidally-influenced wells were compared to the predicted water levels at tidal monitoring station 9414750. Maintained by the National Oceanic and Atmospheric Administration (NOAA), this station is located at Alameda Point and is characterized by a mixed-semidiurnal (12-hour) tide.

It is important to note tidally-affected wells when collecting groundwater elevation data, since groundwater levels collected from tidally-influenced wells may not reflect the true hydraulic gradient. Tidally-affected wells, unless properly corrected for tidal influence, will introduce errors when included on potentiometric surface maps. In order to maximize the usefulness and applicability of water level data, groundwater elevation measurement rounds at Alameda Point are conducted such that all potentially tidally-affected wells are measured during equivalent tidal stages, preferably within one hour of the daily lower-low tide.

2.4 GROUNDWATER MONITORING PROGRAM FIELD ACTIVITIES

Groundwater monitoring program field activities consisted of collecting water level elevation measurements, and collecting groundwater, landfill gas, and soil gas samples for analysis. A visual inspection was performed at each well prior to initiating the actual groundwater sampling activities during each sampling event. Any changes in the surroundings and conditions that could potentially compromise the data or sampling results were documented on field sample collection logs (included in Appendix C) such as limited site access, flooding or buried wells.

2.4.1 Groundwater Elevation Measurements

Approximately 300 wells were measured for groundwater elevation during each sampling event. Groundwater levels and well depths were measured to an accuracy of 0.01-foot from a surveyed

measuring point marked on top of the well casing. The water level in each well was measured by lowering the measuring tape of a water level sounder until the probe contacted the groundwater and triggered a sound at the surface. The tape was then read to the nearest hundredth of a foot against the surveyed mark on the top of well casing and recorded on a water level form upon verifying that the groundwater level was equilibrated (depth to groundwater was stabilized) within each well. Measurements were conducted using a product interface probe so that the thickness of dense non-aqueous phase liquids or light non-aqueous phase liquids could be measured, if present at any of the wells. Total depth measurements were obtained by lowering the tape until the bottom of the well could be felt and then reading the tape at the top of the well casing. The portion of the water level sounder that contacted groundwater was decontaminated after each use to prevent cross-contamination. The groundwater elevation measurements were used to produce the comprehensive Basewide Groundwater Elevation Map included as Figure 2-1 and 2-2.

2.4.2 Groundwater Sample Collection

A low-flow purging technique was used to collect representative groundwater samples in wells scheduled for sampling. A peristaltic pump was used to draw groundwater to the surface through dedicated tubing, the input end of which was generally set at the middle of the well screen. A controlled low flow rate, ranging from 300 to 500 milliliters per minute, was maintained; the water level was monitored and the pump flow rate adjusted to achieve a steady state (i.e., inflow into the well casing from the formation and outflow through the tubing were approximately equivalent). Prior to the collection of a sample, the wells were purged and water quality parameters were monitored approximately every 3 to 5 minutes for pH, specific conductivity, temperature, turbidity, oxidation-reduction potential (ORP), and dissolved oxygen (DO). A minimum of three successive measurements of water quality parameters were recorded during the purging process at each well until stabilization of parameters was achieved. Stabilization was defined by achieving three successive readings within plus or minus 0.1 pH units, plus or minus 1 degree Celsius for temperature, 3 percent conductivity, and 10 percent DO concentrations. If water quality parameters had not stabilized in a well after three readings, purging was continued until stabilization occurred, or until a maximum of three calculated well volumes had been purged. Following purging, groundwater samples were collected directly

from the discharge pump line into the laboratory-supplied containers, appropriately labeled in the field, and immediately placed in a cooler with ice.

2.4.3 Landfill and Soil Gas Sample Collection

Landfill gas and soil gas monitoring were performed for three IR sites (1, 2, and 25) during the Summer 2006 through Spring 2007 events. Landfill gas and soil gas were collected as grab samples with a passivated 6-liter Summa® canister. Vapors in each gas probe were initially purged a minimum of two casing volumes using a portable landfill gas monitor (Landtec 2000) and were then monitored for methane (percent and percent lower explosive limit [LEL]), oxygen (percent), carbon dioxide (percent), balance gas (percent, assumed to be nitrogen), volatile organic compounds (VOCs) (parts per million), and hydrogen sulfide (parts per million). Grab sampling was performed when all parameters monitored during purging were verified to have stabilized. Collection of gas samples from monitoring points was conducted by:

- Verifying that the canisters had a vacuum pressure of no less than 27 inches of mercury prior to sample collection and recording the initial vacuum;
- Attaching the Summa® canister to the well and slowly opening the canister valve,
- Upon completion of sample collection, closing the Summa® canister valve and disconnecting the filter and flow meter;
- Measuring and recording the final pressure of the canister;
- Labeling the sample using the tag attached to the canister;
- Storing the canister properly to avoid exposure to high temperatures (cold storage is not required);
- Resealing the probe upon completion of monitoring (ensuring that the probe is always sealed when not being monitored).

2.4.4 Quality Assurance/Quality Control Samples

Field quality control (QC) samples for this project included field duplicates, trip blanks, temperature blanks, and matrix spike/matrix spike duplicate (MS/MSD) samples. Field duplicate samples were collected in the field at a frequency of 10 percent for each of the thirteen IR sites, and analyzed for the same analytes as their corresponding primary samples. Trip blanks were placed in coolers used for samples from wells requiring VOC analysis and analyzed for VOCs as well. Temperature blanks were placed in coolers for cooler temperature checks. MS/MSD samples were collected at a frequency of every 20 groundwater field samples per IR site.

2.4.5 Decontamination Procedures

Water level sounders were appropriately decontaminated by spraying with a non-phosphate detergent and thoroughly rinsing with de-ionized water after a well was sampled. Other intrusive sampling materials, such as tubing used to purge and sample groundwater and vapors, were either dedicated to specific use at individual monitoring wells or were disposable, thus eliminating the need for decontamination.

2.4.6 Investigation-Derived Waste Management

IDW produced under the groundwater monitoring program consisted of solid and liquid wastes generated from the sampling activities. Solid wastes were mainly consisted of used nitrile gloves and discarded tubing and bailers placed in regular trash bags and disposed of as regular wastes in a trash receptacle. Liquid wastes were mainly consisted of groundwater accumulated from the purging of each well, and a lesser amount of fluid used for decontamination.

A total volume of approximately 900 gallons of liquid waste was accumulated from the combined Summer 2006 and Spring 2007 events. The liquid wastes were stored in a double-contained 2,400-gallon poly-tank and 55-gallon drums in the Navy storage yard pending analysis. Liquid waste samples were collected from the poly-tank and drums with a disposable bailer and transferred to laboratory supplied containers at the end of the Spring 2007 field activities. Based on the analytical results, East Bay Municipal Utility District (EBMUD) profiled and classified the waste stream as non-hazardous waste, and approved the Waste Acceptance Agreement permit authorizing the disposal in their facility. On May 17, 2007, all liquid waste was transferred to a tank truck and transported for final disposal at the EBMUD facility in Oakland, California.

2.5 GROUNDWATER MONITORING PROGRAM EVALUATION AND RECOMMENDATIONS

One of the requirements of the Basewide Groundwater Monitoring Program is to periodically inventory, assess, and evaluate the adequacy of the existing basewide monitoring well network based on the needs of data users and the ongoing Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) cleanup activities at Alameda Point. Analytical results for groundwater and soil gas samples collected since the Basewide Program was initiated

in Summer 2002 through the Spring 2007 event were reviewed and evaluated as part of this assessment. The results of the evaluation are presented in the "Conclusions and Recommendations" subsection at the end of each site-specific section (Sections 3 through 10) and summarized in Section 11.

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FIGURES

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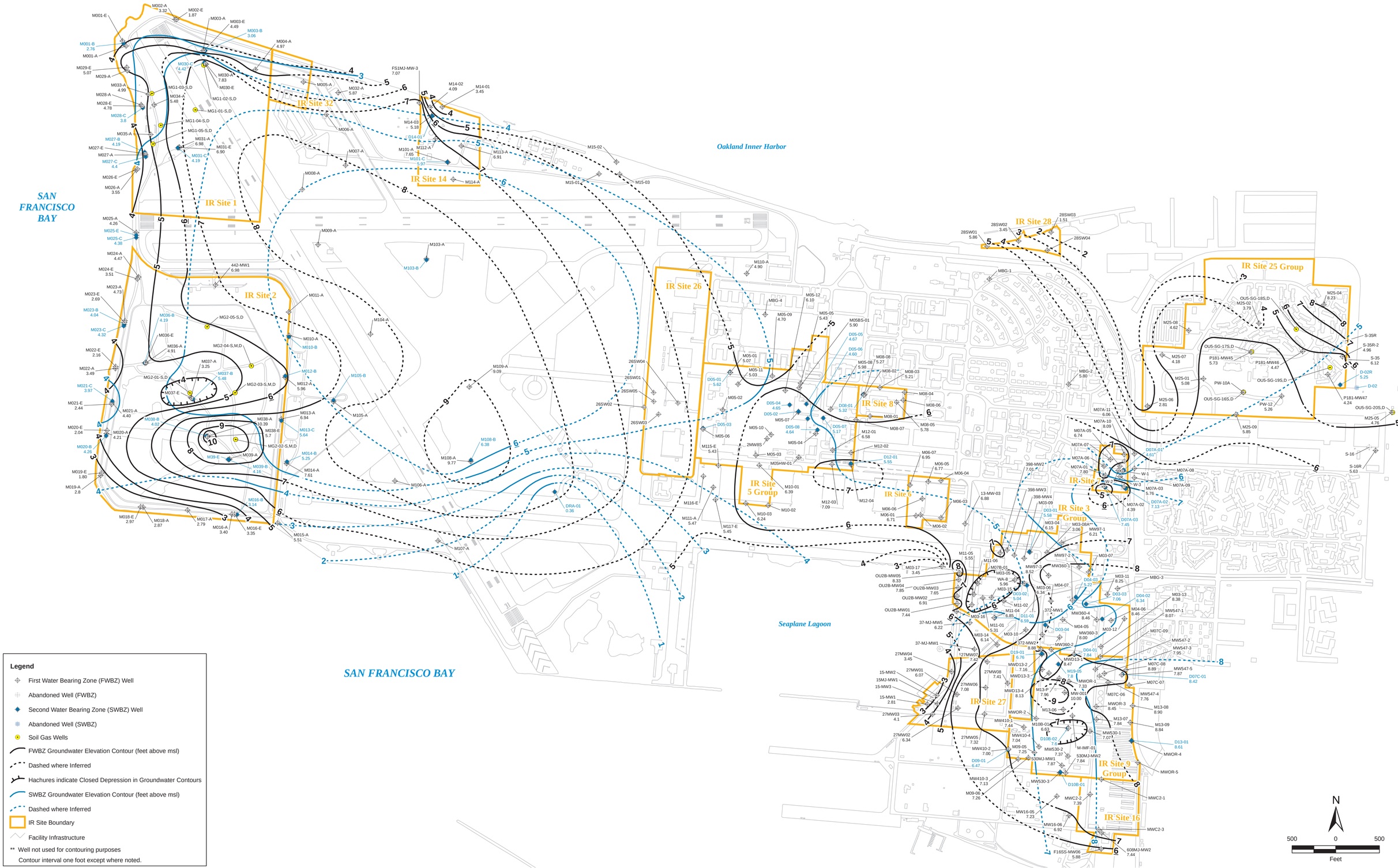

Legend

- First Water Bearing Zone (FWBZ) Well
- Abandoned Well (FWBZ)
- Second Water Bearing Zone (SWBZ) Well
- Abandoned Well (SWBZ)
- Soil Gas Wells
- FWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- SWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- IR Site Boundary
- Facility Infrastructure

** Well not used for contouring purposes

Contour interval one foot except where noted.

2002 Projects\82-125.11\GIS_PRO\Alameda Point GIS\2006 Maps\D Size GW Contour Map w/WTER 2006.mxd

Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

PLATE 2-1
GROUNDWATER ELEVATIONS
WINTER 2006

Legend

- First Water Bearing Zone (FWBZ) Wells
- FWBZ Well, Not Sampled
- Second Water Bearing Zone (SWBZ) Wells
- SWBZ Well, Not Sampled
- FWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- SWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- IR Site Boundary
- Facility Infrastructure

** Well not used for contouring purposes

Contour interval one foot except where noted.

Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

PLATE 2-2
GROUNDWATER ELEVATIONS
SPRING 2007

2006 Projects\052-211.11\Graphics\Alameda Point GIS\2006 Maps\D Size GW Contour Map Sum 2006.mxd

3.0 OPERABLE UNIT 1

Operable Unit 1 is comprised of Installation Restoration Sites 6, 7, 8, 14, and 16. The following subsections (3.1 through 3.5) discuss the site history, analytical results, groundwater flow and recommendations for each of these IR sites.

3.1 INSTALLATION RESTORATION SITE 6

IR Site 6 (Aircraft Intermediate Maintenance Facility) was an aircraft operation and support facility in the east-central section of Alameda Point (Figure 1-2) while the NAS was active. The site encompasses Buildings 41 and 273 and the apron area west of these two structures. Building 41 was originally used as a hangar for seaplanes and was later used for the repair of aircraft components. In addition to an aircraft component repair shop, Building 41 housed an equipment wash pad and a paint stripping area. An oil/water separator (OWS) was located southwest of the building. Above-ground solvent storage and paint stripping tanks, a small hazardous waste storage area, and several portable avionics laboratories were located northwest of Building 41. Industrial activities related to the NAS ceased at the site in September 1996; all equipment and above-ground stored waste were removed by March 1997. The oil/water separator has not been removed to date. Potential sources of chemical contaminants in groundwater at IR Site 6 include:

- Waste discharges to an oil/water separator from paint stripping and equipment washing activities;
- Spills or leaks from above-ground solvent storage and paint stripping tanks;
- Spills or leaks from the waste storage and portable avionics laboratories to soil, groundwater, and storm water.

The actual source of constituents detected in the groundwater has not been determined during the IR investigations conducted to date (Tetra Tech, 1999a).

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 6 included sampling and analysis of seven FWBZ groundwater monitoring wells semi-annually during Fall 2006 and Spring 2007. An additional FWBZ groundwater monitoring well is used for quarterly groundwater-level measurement only. All groundwater monitoring points in the

Summer 2006 through Spring 2007 program are listed in Table 3.1 1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone, and geologic formation for each well. Non-program wells (i.e., wells that are not being sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 3.1-1.

3.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from eight groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling events at IR Site 6. The results are presented along with previously collected water-level data in Table 3.1-2.

3.1.2 Analytical Parameters

Groundwater samples at IR Site 6 collected during the Fall 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- Total petroleum hydrocarbon (TPH) as gasoline by EPA Method 8015B
- TPH as diesel, jet fuel, and motor oil by EPA Method 8015B
- VOCs by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8270 Selective Ion Monitoring (SIM)
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C
- Dissolved metals by EPA Methods 6010B/6020A/7470
- Natural attenuation parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field parameters (measured using portable field instruments).

Table 3.1-1 lists all groundwater monitoring wells at IR Site 6 active in the current Basewide Monitoring Program and their analytical requirements.

3.1.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2006) are summarized in the following subsections, and listed along with previously obtained analytical data in the following tables:

- Table 3.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 6, Summer 2002 through Spring 2007"

- Table 3.1-4, "Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 1 - IR Site 6, Fall/Winter 2004 through Spring 2007"
- Table 3.1-5, "Groundwater Sample Analytical Results: Semivolatile Organic Compounds at Operable Unit 1 - IR Site 6, Summer 2002 through Spring 2007"
- Table 3.1-6, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 1 - IR Site 6, Summer 2002 through Spring 2007"
- Table 3.1-7, "Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 6, Summer 2002 through Spring 2007"
- Table 3.1-8, "Groundwater Sample Analytical Results Natural Attenuation Parameters at Operable Unit 1 - IR Site 6:, Summer 2002 through Spring 2007"

Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQC) promulgated by the federal EPA. California MCLs are in all cases equal to or more stringent than the Federal MCLs, and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only. .

3.1.4 Discussion of Results

Groundwater samples collected at IR Site 6 in the current sampling year indicate that groundwater concentrations of TPH have been low to non-detect for all wells sampled; the highest TPH concentration was 17.0 micrograms per liter (µg/L), for TPH characterized as diesel in one groundwater sample collected from well M06-05 (Table 3.1-3).

Chlorinated hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ at Site 6. **Cis-1, 2-dichloroethene (cis-1, 2 DCE)** was detected above the MCL of 6 µg/L in five wells, at a maximum concentration of 8.8 µg/L in groundwater collected from well M06-01 in Fall 2006. **Vinyl**

Chloride was detected above the MCL of 0.50 µg/L in five wells, at a maximum concentration of 2.1 µg/L in groundwater collected from well M06-01 in Spring 2007 (Table 3.1-9).

A summary of detected analytical results for 1, 4-Dioxane is presented in Table 3.1-4. Although no MCL is established for 1,4-Dioxane, low concentrations above the laboratory reporting limit were detected in five wells, at a maximum concentration of 1.7 µg/L in groundwater collected from well M06-06 in Fall 2006.

Groundwater concentrations of SVOCs were predominantly non-detect for all wells sampled for SVOCs during the current sampling year (Table 3.1-5).

A summary of detected analytical results for dissolved metals is presented in Table 3.1-6. All groundwater concentrations of dissolved metals were below the MCLs (Table 3.1-9) during the current sampling round.

Field parameters measured during sampling are presented in Table 3.1-7.

Four wells at IR Site 6 are monitored for various natural attenuation parameters, such as alkalinity, dissolved gases, anions, nitrate and sulfate (Table 3.1-8).

3.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 3.1-2. As shown on the figure, the groundwater potentiometric surface in Site 6 has very little relief, meaning that groundwater flow directions are not consistent or well defined. Overall, the groundwater flow direction in the FWBZ at IR Site 6 is generally to the northeast at a gradient of approximately 0.002 feet per foot.

3.1.4.2 Groundwater Contaminant Distribution

Contaminant concentrations in groundwater for cis-1, 2-DCE and vinyl chloride are illustrated on Figure 3.1-3. Vinyl chloride occurs within the same distribution range as cis-1, 2-DCE.

3.1.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 3.1-9, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 3.1-9 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those found in previous sampling years.

Differences, with respect to MCLs, are:

- TCE and arsenic exceeded MCLs in historical samples but did not exceed MCLs at any locations for the current sampling year.

Changes in TCE concentrations were consistent and generally within the range of results previously reported in the historical data for each monitoring well sampled at IR Site 6.

3.1.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevations over time are illustrated on Figure 3.1-4 for selected wells. Small variations in groundwater elevation occur due to seasonal fluctuation–mainly between the Spring, Summer, and Fall events–with the highest elevations during the Spring season.

3.1.4.5 Trends in Groundwater Contaminant Concentrations

As noted in Section 3.1.4, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were generally similar to those found in previous sampling years. Trends in groundwater contaminant concentrations in selected wells over time are displayed graphically on Figure 3.1-5. In general, no significant changes in contaminant concentrations for cis-1, 2-DCE or vinyl chloride have occurred in any well over a period of four years, and both analytes typically show a decreasing or flat trend.

3.1.5 Conclusions and Recommendations

Concentrations of IR Site 6 contaminants of concern (cis-1, 2-DCE and vinyl chloride) exceeding the MCLs occur mainly in the southern portion of the site. Concentrations of cis-1, 2-

DCE and vinyl chloride have been consistently detected at similar concentrations in each well location for the past two to four years of monitoring. Variations in the lateral extent of cis-1, 2-DCE concentrations exceeding the MCL occur depending on seasonal fluctuations in the groundwater. These variations are more evident in the upgradient well M06-06, where cis-1, 2 DCE concentrations have been above the MCL mostly during Summer/Fall/Winter, and below the MCL during the Spring season.

Based upon a review of the historical analytical results, the Navy recommends eliminating routine sampling and analysis for TPH, SVOCs and metals at this site. TPH and metals analyses are currently conducted on an annual basis for three site wells: M06-03, M06-05 and M06-06. Concentrations of TPH remain low (in the 20 to 200 ppb range) in one of these wells (M06-05) and the other two wells show predominantly non-detect results. Dissolved metals results show few values above background values and are otherwise unremarkable (i.e. are not indicative of metals contamination). Analysis for SVOCs is currently conducted on a semiannual basis for one site well: M06-07. No detectable concentrations of SVOCs have been found in samples collected from this well after six rounds of sampling. The Navy recommends continued sampling of the IR Site 6 Program wells for VOCs, 1,4-dioxane and natural attenuation parameters. Final approval of the proposed changes will be made after review of the status of Corrective Action Area 6B and the results of recent Data Gap SWMU sampling and initial sampling of newly-installed FWBZ and SWBZ groundwater monitoring wells completed as part of the Data Gap investigation.

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TABLES

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DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 3.1-1
Groundwater Monitoring Summary, Operable Unit 1-IR Site 6, Summer 2006 through Spring 2007

				Organic Compounds					Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells														
First	13-MW-03	Unknown	3 - 18			S	S							
	M06-01	Fill	4 - 9.5			S	S							
	M06-02	Fill	4 - 10			S	S							
	M06-03	Fill	4 - 10	A	A	S	S		A	A	A	A	A	A
	M06-05	Fill	4 - 10	A	A	S	S		A	A	A	A	A	A
	M06-06	Fill	3 - 13	A	A	S	S		A	A	A	A	A	A
	M06-07	Fill	4 - 13.5			S	S	S		A	A	A	A	A
Non-Program Wells, Water Level Only														
First	M06-04	Fill	4 - 9	-	-	-	-	-	-	-	-	-	-	-

Notes:

S	Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007
A	Well sampled for this analyte group ANNUALLY; Spring 2007
-	Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compound
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 3.1-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 6
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	13-MW-03	9.09	9.09	03/06/07	2.85	6.24
		9.09	9.09	12/12/06	2.21	6.88
		9.09	9.09	09/25/06	3.42	5.67
		9.09	9.09	07/10/06	3.11	5.98
		9.09	9.09	04/12/06	2.06	7.03
		9.09	9.09	08/23/05	2.31	6.78
		9.09	9.09	02/28/05	2.75	6.34
		9.09	9.09	11/08/04	3.06	6.03
		9.09	9.09	06/17/04	3.44	5.65
		9.09	9.09	03/02/04	2.73	6.36
		9.09	9.09	12/02/03	3.31	5.78
		9.09	9.09	09/16/03	3.56	5.53
		9.09	9.09	06/23/03	3.29	5.80
		9.09	9.09	04/07/03	3.13	5.96
First	M06-01	10.39	10.41 **	03/07/07	3.35	7.06
		10.39	10.41 **	12/12/06	3.70	6.71
		10.39	10.41 **	09/25/06	3.95	6.46
		10.39	10.41 **	07/10/06	3.70	6.71
		10.39	10.41 **	04/12/06	2.92	7.49
		10.39	10.41 **	08/23/05	3.91	6.50
		10.39	10.41 **	02/28/05	3.30	7.11
		10.39	10.41 **	11/08/04	3.99	6.42
		10.39	10.41 **	06/17/04	3.96	6.45
		10.39	10.41 **	03/02/04	3.41	7.00
		10.39	10.41 **	12/02/03	4.05	6.36
		10.39	10.41 **	09/16/03	4.10	6.31
		10.39	10.41 **	06/23/03	3.91	6.50
		10.39	10.41 **	04/07/03	3.95	6.46
First	M06-02	10.68	10.70 **	03/07/07	3.79	6.91
		10.68	10.70 **	12/12/06	NM	NC
		10.68	10.70 **	09/25/06	4.10	6.60
		10.68	10.70 **	07/10/06	4.00	6.70
		10.68	10.70 **	04/12/06	3.46	7.24
		10.68	10.70 **	08/23/05	4.09	6.61
		10.68	10.70 **	02/28/05	3.71	6.99
		10.68	10.70 **	11/08/04	4.24	6.46
		10.68	10.70 **	06/17/04	4.35	6.35
		10.68	10.70 **	03/02/04	3.82	6.88
		10.68	10.70 **	12/02/03	4.26	6.44
		10.68	10.70 **	09/16/03	4.41	6.29
		10.68	10.70 **	06/23/03	4.19	6.51
		10.68	10.70 **	04/07/03	4.04	6.66

Table 3.1-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 6
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M06-03	11.75	11.20 *	03/06/07	4.37	6.83
		11.75	11.20 *	12/12/06	NM	NC
		11.75	11.20 *	09/25/06	4.87	6.33
		11.75	11.20 *	07/10/06	4.76	6.44
		11.75	11.20 *	04/12/06	4.20	7.00
		11.75	11.20 *	08/23/05	3.82	7.38
		11.75	11.20 *	02/28/05	4.42	6.78
		11.75	11.20 *	11/08/04	4.82	6.38
		11.75	11.20 *	06/17/04	4.87	6.33
		11.75	11.20 *	03/02/04	4.41	6.79
		11.75	11.20 *	12/02/03	4.81	6.39
		11.75	11.20 *	09/16/03	4.98	6.22
		11.75	11.20 *	06/23/03	4.81	6.39
		11.75	11.20 *	04/07/03	4.72	6.48
		11.75	11.20 *	12/11/02	4.90	6.30
		11.75	11.20 *	06/24/02	5.88	5.32
First	M06-04 ‡	10.50	10.52 **	03/06/07	2.75	7.77
		10.50	10.52 **	08/23/05	2.29	8.23
		10.50	10.52 **	02/28/05	6.70	3.82
		10.50	10.52 **	11/08/04	3.09	7.43
		10.50	10.52 **	06/17/04	3.19	7.33
		10.50	10.52 **	03/02/04	3.02	7.50
		10.50	10.52 **	12/02/03	3.05	7.47
		10.50	10.52 **	09/16/03	3.32	7.20
		10.50	10.52 **	06/23/03	3.24	7.28
		10.50	10.52 **	04/07/03	3.10	7.42
First	M06-05	11.24	10.86 *	03/06/07	4.04	6.82
		11.24	10.86 *	12/12/06	4.09	6.77
		11.24	10.86 *	09/25/06	4.41	6.45
		11.24	10.86 *	07/10/06	4.24	6.62
		11.24	10.86 *	04/12/06	3.90	6.96
		11.24	10.86 *	08/23/05	8.74	2.12
		11.24	10.86 *	02/28/05	4.00	6.86
		11.24	10.86 *	11/08/04	4.31	6.55
		11.24	10.86 *	06/17/04	4.37	6.49
		11.24	10.86 *	03/02/04	3.90	6.96
		11.24	10.86 *	12/02/03	4.29	6.57
		11.24	10.86 *	09/16/03	4.45	6.41
		11.24	10.86 *	06/23/03	4.29	6.57
		11.24	10.86 *	04/07/03	3.85	7.01
		11.24	10.86 *	12/11/02	4.54	6.32
		11.24	10.86 *	09/03/02	4.53	6.33
		11.24	10.86 *	06/24/02	5.44	5.42

Table 3.1-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 6
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M06-06	11.24	10.94 *	03/06/07	3.55	7.39
		11.24	10.94 *	12/12/06	NM	NC
		11.24	10.94 *	09/25/06	4.14	6.80
		11.24	10.94 *	07/10/06	3.90	7.04
		11.24	10.94 *	04/12/06	3.09	7.85
		11.24	10.94 *	08/23/05	4.09	6.85
		11.24	10.94 *	02/28/05	3.45	7.49
		11.24	10.94 *	11/08/04	4.13	6.81
		11.24	10.94 *	06/17/04	4.09	6.85
		11.24	10.94 *	03/02/04	3.47	7.47
		11.24	10.94 *	12/02/03	4.15	6.79
		11.24	10.94 *	09/16/03	4.30	6.64
		11.24	10.94 *	06/23/03	4.91	6.03
		11.24	10.94 *	04/07/03	3.63	7.31
		11.24	10.94 *	12/11/02	4.38	6.56
		11.24	10.94 *	09/03/02	4.32	6.62
		11.24	10.94 *	06/24/02	4.06	6.88
First	M06-07	NM	10.51	03/06/07	3.10	7.41
		NM	10.51	12/12/06	3.56	6.95
		NM	10.51	09/25/06	3.87	6.64
		NM	10.51	07/10/06	3.56	6.95
		NM	10.51	04/12/06	2.77	7.74
		NM	10.51	08/23/05	2.71	7.80
		NM	10.51	02/28/05	3.04	7.47
		NM	10.51	11/08/04	4.04	6.47
		NM	10.51	06/17/04	3.85	6.66

Notes:
BTOC = below top of casing
msl = mean sea level
NM = not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 3.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	13-MW-03	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M06-01	2007 01 (Spring)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	2.5	< 0.50	4.4	1.1	< 0.50	< 0.50	< 0.50	2.1
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	2.7	< 0.50	8.8	0.90	< 0.50	< 0.50	< 0.50	1.5
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	2.0	< 0.50	8.2	1.0	< 0.50	< 0.50	< 0.50	3.4
		2005 02 (Summer)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	3.1	< 0.50	6.8	0.80	< 0.50	< 0.50	< 0.50	2.7
		2005 01 (Spring)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	3.5	< 0.50	6.5	0.90	< 0.50	< 0.50	< 0.50	1.8
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	3.2	< 0.50	8.0	1.0	< 0.50	< 0.50	< 0.50	2.5
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	3.2	< 0.50	8.0	0.40 J	< 0.50	< 0.50	< 0.50	1.1
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	2.4	< 1.0	7.3	0.96 J	< 1.0	< 0.50	< 1.0	3.0
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	0.56 J	3.5	< 1.0	12.0	1.0 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.78 J	< 1.0	3.2	0.53 J	< 1.0	< 0.50	< 1.0	2.0
	M06-02	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.2	0.10 J	3.8	2.2	0.60	< 0.50	0.50	0.40 J
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	1.3	0.20 J	6.8	3.8	0.60	< 0.50	< 0.50	1.6
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	0.10 J	4.1	2.1	0.50	< 0.50	0.70	0.80
		2005 02 (Summer)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	0.30 J	9.5	4.3	1.1	< 0.50	0.20 J	3.3
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	0.40 J	8.1	3.0	0.70	< 0.50	0.30 J	1.0
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	0.40 J	11.0	5.2	0.80	< 0.50	< 0.50	0.40 J
		2004 02 (Summer)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4	0.30 J	9.4	5.0	0.80	< 0.50	< 0.50	0.90
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	0.38 J	8.4	3.9	0.88 J	< 0.50	0.26 J	1.5

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-02	2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	1.5	0.42 J	12.0	4.6 J	0.86 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.46 J	0.52 J	14.0	7.0	1.2	< 0.50	< 1.0	3.4
	M06-03	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 22.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	4.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	0.40 J	< 0.50	4.0	< 0.50	0.080 J	< 0.50	< 0.50	0.20 J
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	5.5	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	8.8	0.20 J	0.10 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	6.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	8.4	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	10.0	< 1.0	0.24 J	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.8	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	6.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	< 0.50	5.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M06-05	2007 01 (Spring)	17.0 J	< 50.0	< 300	< 24.0	17.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J
		2006 01 (Spring)	< 50.0	63.0	< 300	< 50.0	63.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	25.0 J	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J
		2005 01 (Spring)	110 J	93.0	< 300	< 50.0	203	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	120	64.0	< 300	< 50.0	184	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	25.0 J	25.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	1.6	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 16.0 J	< 300	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-06	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	1.5	< 0.50	2.6	0.50	0.20 J	< 0.50	< 0.50	0.30 J
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	1.9	< 0.50	4.1	1.1	0.50	< 0.50	< 0.50	0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	1.8	0.30 J	3.4	0.40 J	0.40 J	< 0.50	< 0.50	0.60
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	2.3	0.50	5.0	0.80	0.90	< 0.50	< 0.50	0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	1.3	0.30 J	2.1	0.30 J	0.40 J	< 0.50	< 0.50	0.30 J
		2004 04 (Winter)	84.0	< 50.0	< 300	< 50.0	84.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	3.4	0.70	6.9	0.90	0.80	< 0.50	< 0.50	0.40 J
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	2.3	0.60	4.5	0.70	0.80	< 0.50	< 0.50	0.40 J
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	2.0	0.30 J	2.3	0.28 J	0.43 J	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	3.6	0.79 J	6.9	0.83 J	0.91 J	< 0.50	< 1.0	0.53
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0 J	2.0	0.71 J	5.5	1.1	1.6	< 0.50	< 1.0	0.75
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	2.0	0.72 J	5.2	0.47 J	0.63 J	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	2.0	0.50	3.9	0.30 J	0.40 J	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	2.5	1.0	5.1	0.20 J	0.90	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	48.0 J	< 50.0	240 J	28.0 J	316	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.2	5.8	3.1	19.0	1.1	3.6	0.20 J	< 0.50	1.4
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	4.9	3.0	17.0	1.1	3.4	< 0.50	< 0.50	1.5
	M06-07	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.050	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50	< 0.50 UJ	0.10 J	< 0.50 UJ	< 0.50 UJ	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	0.060 J	0.10 J	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	0.10 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.20 J	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.20 J	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.20 J	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.1-4
Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 1 - IR Site 6
Fall/Winter 2004 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	**UG/L**
		MCL:	**NA**
		BV:	**NA**
	Well Number	Event ***AWQC:***	**NA**
FWBZ	13-MW-03	2007 01 (Spring)	**0.17 J**
		2006 03 (Fall)	**0.48 J**
		2006 01 (Spring)	< 0.96
		2005 02 (Summer)	**0.43 J**
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	**0.18 J**
	M06-01	2007 01 (Spring)	**0.16 J**
		2006 03 (Fall)	<0.96
		2006 01 (Spring)	**0.13 J**
		2005 02 (Summer)	<0.95
		2005 01 (Spring)	**0.36 J**
		2004 04 (Winter)	**0.41 J**
	M06-02	2007 01 (Spring)	**0.43 J**
		2006 03 (Fall)	**1.2**
		2006 01 (Spring)	**0.41 J**
		2005 02 (Summer)	**1.1**
		2005 01 (Spring)	**0.79 J**
		2004 04 (Winter)	**1.9**
	M06-03	2007 01 (Spring)	**0.24 J**
		2006 03 (Fall)	**0.58 J**
		2006 01 (Spring)	**0.38J**
		2005 02 (Summer)	**0.62J**
		2004 04 (Winter)	**1.0**
	M06-05	2007 01 (Spring)	< 0.95
		2006 03 (Fall)	<0.96
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.97
	M06-06	2007 01 (Spring)	**1.1**
		2006 03 (Fall)	**1.7**
		2006 01 (Spring)	**0.91 J**
		2005 02 (Summer)	**2.9**
		2005 01 (Spring)	**1.2**
		2004 04 (Winter)	**3.6**
	M06-07	2007 01 (Spring)	<0.95
		2006 03 (Fall)	<0.94
		2006 01 (Spring)	< 0.97
		2005 02 (Summer)	< 0.95
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.97

Table 3.1-5

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-07	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2006 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	7.2 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.1-5

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs													
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-07	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2006 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	*37.5*	*20.7*	*570*	*2.5*	*3.9*	*12.5*	*17.2*	*24.2*	*6.7*	*1740*	*0.20*	*12.7*	*21.0*	*8.4*	*4.9*	*13.8*	*26.3*	*36.4*	1070	6590	157	356	147	3710
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M06-03	2007 01 (Spring)	3.1	6.4	300	3.2	2.7 J	4.8 J	4.1	4.2 J	< 3.0	240	< 0.20	11.0 J	4.9 J	3.9 J	2.7 J	1.6 J	< 7.1	10.0 J	410	720	68.0	52.0	38.0	1200
		2006 01 (Spring)	< 1.0	5.6 J	310	< 2.0	< 5.0	< 10.0	0.35 J	1.7 J	0.27 J	120	< 0.20	5.5 J	3.3 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	470	79.0	54.0	37.0	1100
		2005 02 (Summer)	1.1	4.5 J	380	< 2.0	< 5.0	1.4 J	0.35 J	< 10.0	< 3.0	210 J	< 0.20	4.2 J	3.3 J	1.2 J	< 5.0	< 5.0	4.5 J	19.0 J	< 100	780	78.0	55.0	41.0	1100
		2004 04 (Winter)	0.19 J	< 5.0	340	< 2.0	< 5.0	< 10.0	0.28 J	< 10.0	< 3.0	220	< 0.20	4.9 J	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	150	86.0	62.0	41.0	1300
		2004 02 (Summer)	0.26 J	4.9	430	< 1.0	< 5.0	1.2	0.36 J	1.3	0.12 J	220	0.090 J	< 20.0	2.5	3.7	< 5.0	< 1.0	3.5	2.5	5.5 J	120	120	78.0	54.0	1500
		2003 04 (Winter)	< 5.0	4.8 J	392	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	225 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	274	119	79.4	54.4	1470
		2003 02 (Summer)	< 50.0	< 50.0	501	< 4.0	< 5.0	< 10.0	< 10.0	1.9 J	< 10.0	276	< 0.40	6.1 J	2.1 J	< 20.0	< 10.0	< 100	1.6 J	< 20.0	< 200	262	134	90.1	120	1340 J
		2002 04 (Winter)	< 50.0	5.0 J	440	< 2.0	< 5.0	< 10.0	0.32 J	0.80 J	< 3.0	270	< 0.20	3.0 J	2.1 J	4.5 J	< 5.0	< 2.0	3.8 J	< 20.0 UJ	10.0 J	670	120	78.0	46.0	1400
		2002 02 (Summer)	0.11 J	6.0	520 J	< 2.0	< 5.0	11.0	0.52 J	0.78 J	0.026 J	280	0.070 J	2.5 J	1.9 J	7.9	1.0 J	< 2.0	4.2 J	< 20.0	3.4 J	530	**170**	98.0	*55.0*	*1600*
	M06-05	2007 01 (Spring)	0.57 J	8.7	220	< 2.0	0.072 J	< 1.5	1.2	1.2 J	< 3.0	400	< 0.20	7.7 J	< 1.6	1.0 J	< 5.0	< 5.0	< 3.1	< 6.1	< 20.0	690	45.0	36.0	30.0	980
		2006 01 (Spring)	< 1.0	8.2 J	130	< 2.0	< 5.0	< 10.0	0.24 J	0.99 J	< 3.0	270	< 0.20	9.2 J	3.0 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	500	25.0	26.0	23.0	730
		2005 02 (Summer)	0.20 J	8.9	260 J	< 2.0	< 5.0	0.91 J	0.23 J	0.65 J	< 3.0	500 J	0.084 J	5.0 J	1.6 J	1.8 J	< 5.0	*0.48 J*	*0.65 J*	*1.6 J*	*< 100*	*850*	*47.0 J*	*48.0 J*	*38.0 J*	*1100 J*
		2004 04 (Winter)	0.13 J	9.5	180	< 2.0	< 5.0	< 10.0	0.34 J	< 10.0	< 3.0	370	< 0.20	5.5 J	1.4 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	460	38.0	37.0	30.0	900
		2004 02 (Summer)	0.23 J	9.3	200	< 1.0	< 5.0	1.2	0.20 J	0.89 J	0.15 J	430	0.12 J	< 20.0	3.6	2.6	< 5.0	0.26 J	1.2	7.3	5.5 J	400	42.0	36.0	34.0	970
		2003 04 (Winter)	< 5.0 UJ	< 50.0	121	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	*< 10.0 UJ*	*191*	*< 0.40*	*< 50.0*	*< 20.0*	*< 20.0*	*< 10.0*	< 5.0 UJ	< 50.0	< 20.0	< 200	280	31.3	24.8	25.0	694
		2003 02 (Summer)	< 50.0	8.8 J	122	< 4.0	< 5.0	1.4 J	< 10.0	< 10.0	< 10.0	220	< 0.40	8.1 J	5.5 J	< 20.0	< 10.0	< 5.0	< 50.0	**115**	97.8 J	323	20.9	21.8	23.7	642 J
		2002 04 (Winter)	0.43 J	8.8	120	< 2.0	< 5.0	< 10.0	0.25 J	1.3 J	0.088 J	260 J	< 0.20	6.7 J	3.0 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	7.4 J	5.8 J	380	29.0	18.0	19.0	710
		2002 02 (Summer)	*0.10 J*	*11.0*	*250 J*	*< 2.0*	*< 5.0*	*5.1 J*	*0.23 J*	*0.34 J*	*0.040 J*	540	< 0.20	5.4 J	1.5 J	3.0 J	1.8 J	< 2.0	2.3 J	3.0 J	3.3 J	980	45.0	44.0	33.0	890
	M06-06	2007 01 (Spring)	< 0.16	3.5 J	67.0	< 2.0	< 0.061	< 1.5	0.24 J	0.45 J	< 2.1	89.0	< 0.20	3.4 J	< 0.72	< 5.0	< 5.0	< 5.0	5.4 J	18.0 J	< 23.0	94.0 J	36.0	15.0	18.0	93.0
		2006 01 (Spring)	< 1.0	3.0 J	65.0	< 2.0	< 5.0	< 10.0	0.12 J	0.96 J	< 3.0	< 50.0	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	< 10.0	11.0 J	< 100	< 100	36.0	15.0	18.0	90.0
		2005 02 (Summer)	*0.63 J*	*< 5.0*	*390*	*< 2.0*	*< 5.0*	*12.0*	*3.9*	*< 10.0*	*< 3.0*	*450*	*< 0.20*	*< 20.0*	*8.0 J*	**16.0**	*< 5.0*	*< 5.0*	*13.0*	**98.0**	*< 100*	*2700*	**310**	**930**	**240**	**5900**
		2004 04 (Winter)	0.10 J	5.1	69.0	< 2.0	< 5.0	< 10.0	0.25 J	< 10.0	1.4 J	150	< 0.20	4.9 J	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	6.4 J	< 100	330	31.0	14.0	23.0	160
		2004 02 (Summer)	0.16 J	11.0	72.0	< 2.0	< 5.0	0.43 J	0.20 J	< 10.0	0.22 J	140	< 0.20	3.7 J	0.73 J	< 5.0	< 5.0	< 1.0	< 10.0	9.3 J	< 50.0	260	31.0	14.0	24.0	170
		2003 04 (Winter)	*< 5.0*	*5.7 J*	*73.6 J*	*< 4.0*	*2.5 J*	*< 10.0*	*< 10.0*	*< 10.0*	*< 10.0*	*179 J*	*< 0.40*	*< 50.0*	*< 20.0*	*< 20.0*	*< 10.0*	*< 5.0 UJ*	*< 50.0*	*< 20.0*	*< 200*	*244*	*33.1*	*15.3*	*26.6*	*164*
		2003 02 (Summer)	< 50.0	< 50.0	59.5 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	< 10.0	53.4	< 0.40	5.5 J	1.5 J	< 20.0	< 10.0	< 5.0	2.7 J	< 20.0	< 200	< 100	27.5	12.3	22.5	107 J
		2002 04 (Winter)	< 50.0	< 5.0	99.0	< 2.0	0.16 J	3.1 J	0.28 J	1.1 J	0.22 J	74.0 J	< 0.20	3.1 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	4.2 J	5.9 J	110	350	39.0	17.0	21.0	160
		2002 02 (Summer)	0.085 J	4.1 J	130 J	< 2.0	< 5.0	2.1 J	0.18 J	0.70 J	0.070 J	100	**0.44**	3.5 J	1.3 J	1.3 J	0.64 J	< 2.0	3.3 J	1.2 J	4.0 J	170	34.0	18.0	31.0	240

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.1-7
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 6
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	13-MW-03	03/09/07	7.87	0.26	-63.7
		10/03/06	7.34	0.28	-116.5
		05/03/06	7.11	0.46	-108.0
		09/09/05	8.08	8.50	-216.0
		03/03/05	7.45	0.00	-69.0
		11/24/04	7.06	0.14	192.0
		06/29/04	7.43	0.12	-305.0
		03/08/04	7.23	0.11	186.0
		12/22/03	7.56	0.29	114.0
		09/23/03	7.21	0.26	-268.0
First	M06-01	03/09/07	7.86	0.30	-119.6
		10/03/06	7.13	0.11	-56.2
		05/03/06	7.25	1.02	-192.0
		09/09/05	7.82	0.86	-170.0
		03/03/05	7.40	0.00	-122.0
		11/24/04	7.07	0.40	46.0
		06/29/04	7.09	0.29	-11.0
		03/08/04	7.04	0.24	104.0
		12/22/03	7.05	0.26	-184.0
		09/22/03	7.10	0.30	9.0
First	M06-02	03/09/07	7.90	3.01	-58.1
		10/03/06	7.99	0.14	-105.4
		05/03/06	7.42	4.77	-78.0
		09/09/05	8.50	1.23	-144.0
		03/02/05	7.82	3.46	-77.0
		11/24/04	7.57	0.33	134.0
		06/29/04	7.79	0.40	51.0
		03/05/04	7.79	2.31	136.0
		12/22/03	7.72	1.20	-71.0
		09/22/03	7.86	0.40	1.7
First	M06-03	03/26/07	7.41	0.62	-69.2
		10/03/06	7.28	0.25	-217.7
		05/03/06	7.30	1.01	-167.0
		09/08/05	6.20	4.82	-198.0
		11/29/04	7.19	0.39	-33.0
		06/29/04	7.13	0.27	-246.0
		12/09/03	7.26	0.29	121.0
		06/27/03	7.53	0.20	-11.0
		12/23/02	7.02	1.50	-112.8
		06/24/02	7.47	2.10	-100.0
First	M06-05	03/26/07	7.61	0.45	-136.7
		10/03/06	7.58	0.79	-139.2
		05/03/06	7.59	1.29	-224.0
		09/09/05	8.32	0.96	-222.0
		03/03/05	7.81	0.00	-224.0
		11/29/04	7.74	0.57	27.0
		06/29/04	7.42	0.46	-190.0

Table 3.1-7
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 6
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M06-05	03/05/04	7.88	0.72	101.0
		12/08/03	7.75	0.51	103.0
		09/22/03	7.73	0.64	51.0
		06/27/03	7.77	0.21	-110.0
		04/09/03	7.90	3.90	-38.0
		12/23/02	7.51	4.05	-131.2
		09/05/02	7.51	6.20	-159.0
		06/24/02	7.71	1.60	-143.0
First	M06-06	03/27/07	6.37	7.39	391.0
		10/04/06	7.34	0.49	-110.1
		05/03/06	7.20	1.77	39.0
		09/09/05	8.15	0.85	-162.0
		03/02/05	7.28	1.77	147.0
		11/29/04	7.22	0.31	33.0
		06/29/04	7.36	0.27	22.0
		03/05/04	7.40	1.55	286.0
		12/09/03	7.56	0.24	178.0
		09/22/03	7.53	0.37	5.0
		06/27/03	7.78	0.86	202.0
		04/10/03	7.60	***13.70***	162.0
		12/23/02	7.29	5.65	24.1
		09/05/02	7.46	1.30	4.4
		06/24/02	7.55	2.20	-62.0
First	M06-07	03/26/07	7.34	0.24	-43.3
		10/03/06	7.29	0.28	-115.9
		05/03/06	7.23	0.92	-164.0
		09/12/05	8.11	0.79	-160.0
		03/03/05	7.64	0.00	-64.0
		11/29/04	7.15	0.26	162.0
		06/30/04	7.59	0.13	-319.0

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 3.1-8

Groundwater Sample Analytical Results Natural Attenuation Parameters at Natural Attenuation Parameters at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-03	2007 01 (Spring)	< 0.0050	< 0.0050	0.64	0.13	< 0.15	1300	270	610	610	< 10.0	< 10.0	0.46
		2006 01 (Spring)	< 0.0050	< 0.0050	0.51	0.060 J	< 0.25	1200	250	570	570	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	2.6	0.020 J	< 0.20	1800	300	760	760	< 1.0	< 1.0	0.44
		2004 04 (Winter)	< 0.0050	< 0.0050	3.4	< 0.25	< 0.25	1800	280	600	600	< 1.0	< 1.0	0.90
		2004 02 (Summer)	< 0.010	< 0.010	3.6	< 0.25	< 0.25	2000	280	730	730	< 1.0	< 1.0	0.62
		2003 04 (Winter)	< 0.0030	< 0.0030	1.7	< 1.0	< 1.0	1740	256	766	766	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.96	0.22	< 1.0	2000	321	703	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	1.8	0.57	< 10.0	1900	240	670	670	< 1.0	< 1.0	0.12
		2002 02 (Summer)	< 0.010	< 0.010	0.61	< 0.25	< 0.25	2300	270	730	730	< 1.0	< 1.0	0.060
	M06-05	2007 01 (Spring)	< 0.0050	< 0.0050	7.7	0.16	< 0.15	1100	34.0	710	710	< 10.0	< 10.0	0.050
		2006 01 (Spring)	< 0.0050	< 0.0050	1.8	0.030 J	< 0.10	810	56.0	700	700	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	6.5	< 0.10	< 0.15	1400	24.0	790	790	< 1.0	< 1.0	0.31 J
		2004 04 (Winter)	< 0.0050	< 0.0050	7.3	0.060	< 0.10	1000	25.0	620	620	< 1.0	< 1.0	0.23
		2004 02 (Summer)	< 0.010	< 0.010	3.4	< 0.10	< 0.10	1100	77.0	730	730	< 1.0	< 1.0	0.22
		2003 04 (Winter)	< 0.0030	< 0.0030	2.2	< 1.0	< 1.0	674	65.6	605	605	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.71	< 0.10	< 1.0	978	44.9	592	-	-	-	< 1.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.1-8

Groundwater Sample Analytical Results Natural Attenuation Parameters at Natural Attenuation Parameters at Operable Unit 1 - IR Site 6

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-05	2002 04 (Winter)	< 0.010	< 0.010	2.4	0.90	< 0.050	620	80.0	470	470	< 1.0	< 1.0	0.14
		2002 02 (Summer)	< 0.010	< 0.010	4.2	< 0.060 J	< 0.10	1100	36.0	650	650	< 1.0	< 1.0	0.15
	M06-06	2007 01 (Spring)	< 0.0050	< 0.0050	1.4	0.43	< 0.050	99.0	25.0	180	180	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.55	0.20	< 0.050	98.0	24.0	170	170	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	4.5	0.080	< 0.050	130	21.0	210	210	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	6.3	0.070	< 0.050	180	27.0	260	260	< 1.0	< 1.0	0.040
		2004 02 (Summer)	< 0.010	< 0.010	3.3	0.030 J	< 0.050	160	31.0	230	230	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	0.0015 J	2.8	< 1.0	< 1.0	151	34.5	274	274	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.65	0.36	< 0.10	120	33.5	217	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.12	1.0	< 0.050	190	33.0	220	220	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.82	0.18	< 0.050	300	31.0	240	240	< 1.0	< 1.0	< 0.040
	M06-07	2007 01 (Spring)	< 0.0050	< 0.0050	0.066	< 0.050	< 0.050	19.0	14.0	90.0	90.0	< 4.0	< 4.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.083	< 0.050	< 0.050	28.0	13.0	110	110	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	3.0	0.030 J	< 0.050	270	6.6	250	250	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	3.6	0.020 J	< 0.050	200	16.0	220	220	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	2.1	< 0.050	< 0.050	500	14.0	390	390	< 1.0	< 1.0	< 0.040

Table 3.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 6

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 6 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	7	0.60 J	M06-06	27 Mar 2007	18.0	M06-07	2005 01 (Spring)
Benzene (UG/L)	1	7	0.10 J	M06-01	09 Mar 2007	0.10 J	M06-01	2005 02 (Summer)
TPH-Diesel (UG/L)	1	3	17.0 J	M06-05	26 Mar 2007	120	M06-05	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	3	7	0.60	M06-06	27 Mar 2007	4.2	M06-06	2002 03 (Fall)
Trichloroethene (UG/L)	4	7	2.7	M06-01	03 Oct 2006	5.8	M06-06	2002 03 (Fall)
1,1-Dichloroethene (UG/L)	1	7	0.20 J	M06-02	03 Oct 2006	3.1	M06-06	2002 03 (Fall)
cis-1,2-Dichloroethene (UG/L)	5	7	8.8	M06-01	03 Oct 2006	19.0	M06-06	2002 03 (Fall)
trans-1,2-Dichloroethene (UG/L)	3	7	3.8	M06-02	03 Oct 2006	7.0	M06-02	2003 03 (Fall)
1,1-Dichloroethane (UG/L)	4	7	0.60	M06-02	09 Mar 2007	3.6	M06-06	2002 03 (Fall)
1,2-Dichloroethane (UG/L)	1	7	0.10 J	M06-07	03 Oct 2006	0.20 J	M06-07	2005 02 (Summer)
Methyl tert-butyl ether (MTBE) (UG/L)	1	7	0.30 J	M06-02	03 Oct 2006	0.60	M06-02	2005 02 (Summer)
1,1,1-Trichloroethane (UG/L)	1	7	0.50	M06-02	09 Mar 2007	0.70	M06-02	2006 01 (Spring)
1,2-Dichlorobenzene (UG/L)	1	7	0.10 J	M06-07	03 Oct 2006	0.20 J	M06-07	2004 02 (Summer)
Vinyl Chloride (UG/L)	5	7	2.1	M06-01	09 Mar 2007	3.4	M06-01	2006 01 (Spring)
Methyl ethyl ketone (MEK) (UG/L)	1	7	0.20 J	M06-03	26 Mar 2007	--	NA	NA
Tert-butyl alcohol (UG/L)	1	7	1.7 J	M06-02	03 Oct 2006	1.6 J	M06-02	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 6

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 6 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
1,4 Dioxane (UG/L)	5	7	1.7	M06-06	04 Oct 2006	3.6	M06-06	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 6

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 6 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	4	4	7.7	M06-05	26 Mar 2007	7.3	M06-05	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 6

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 6 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	2	3	3.1	M06-03	26 Mar 2007	1.1	M06-03	2005 02 (Summer)
Arsenic (UG/L)	3	3	8.7	M06-05	26 Mar 2007	11.0	M06-06	2004 02 (Summer)
Barium (UG/L)	3	3	300	M06-03	26 Mar 2007	520 J	M06-03	2002 02 (Summer)
Beryllium (UG/L)	1	3	3.2	M06-03	26 Mar 2007	--	NA	NA
Cadmium (UG/L)	2	3	2.7 J	M06-03	26 Mar 2007	2.5 J	M06-06	2003 04 (Winter)
Chromium (UG/L)	1	3	4.8 J	M06-03	26 Mar 2007	12.0	M06-06	2005 02 (Summer)
Cobalt (UG/L)	3	3	4.1	M06-03	26 Mar 2007	3.9	M06-06	2005 02 (Summer)
Copper (UG/L)	3	3	4.2 J	M06-03	26 Mar 2007	1.9 J	M06-03	2003 02 (Summer)
Manganese (UG/L)	3	3	400	M06-05	26 Mar 2007	540	M06-05	2002 02 (Summer)
Molybdenum (UG/L)	3	3	11.0 J	M06-03	26 Mar 2007	9.2 J	M06-05	2006 01 (Spring)
Nickel (UG/L)	1	3	4.9 J	M06-03	26 Mar 2007	8.0 J	M06-06	2005 02 (Summer)
Selenium (UG/L)	2	3	3.9 J	M06-03	26 Mar 2007	16.0	M06-06	2005 02 (Summer)
Silver (UG/L)	1	3	2.7 J	M06-03	26 Mar 2007	1.8 J	M06-05	2002 02 (Summer)
Thallium (UG/L)	1	3	1.6 J	M06-03	26 Mar 2007	0.48 J	M06-05	2005 02 (Summer)
Vanadium (UG/L)	1	3	5.4 J	M06-06	27 Mar 2007	13.0	M06-06	2005 02 (Summer)
Zinc (UG/L)	2	3	18.0 J	M06-06	27 Mar 2007	115	M06-05	2003 02 (Summer)
Aluminum (UG/L)	1	3	410	M06-03	26 Mar 2007	110	M06-06	2002 04 (Winter)
Iron (UG/L)	3	3	720	M06-03	26 Mar 2007	2700	M06-06	2005 02 (Summer)
Calcium (MG/L)	3	3	68.0	M06-03	26 Mar 2007	310	M06-06	2005 02 (Summer)
Magnesium (MG/L)	3	3	52.0	M06-03	26 Mar 2007	930	M06-06	2005 02 (Summer)
Potassium (MG/L)	3	3	38.0	M06-03	26 Mar 2007	240	M06-06	2005 02 (Summer)
Sodium (MG/L)	3	3	1200	M06-03	26 Mar 2007	5900	M06-06	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 6

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 6 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	4	4	710	M06-05	26 Mar 2007	790	M06-05	2005 02 (Summer)
Sulfide (MG/L)	2	4	0.46	M06-03	26 Mar 2007	0.90	M06-03	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	4	4	710	M06-05	26 Mar 2007	790	M06-05	2005 02 (Summer)
Nitrate (MG/L)	3	4	0.43	M06-06	27 Mar 2007	1.0	M06-06	2002 04 (Winter)
Chloride (MG/L)	4	4	1300	M06-03	26 Mar 2007	2300	M06-03	2002 02 (Summer)
Sulfate (as SO4) (MG/L)	4	4	270	M06-03	26 Mar 2007	321	M06-03	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

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FIGURES

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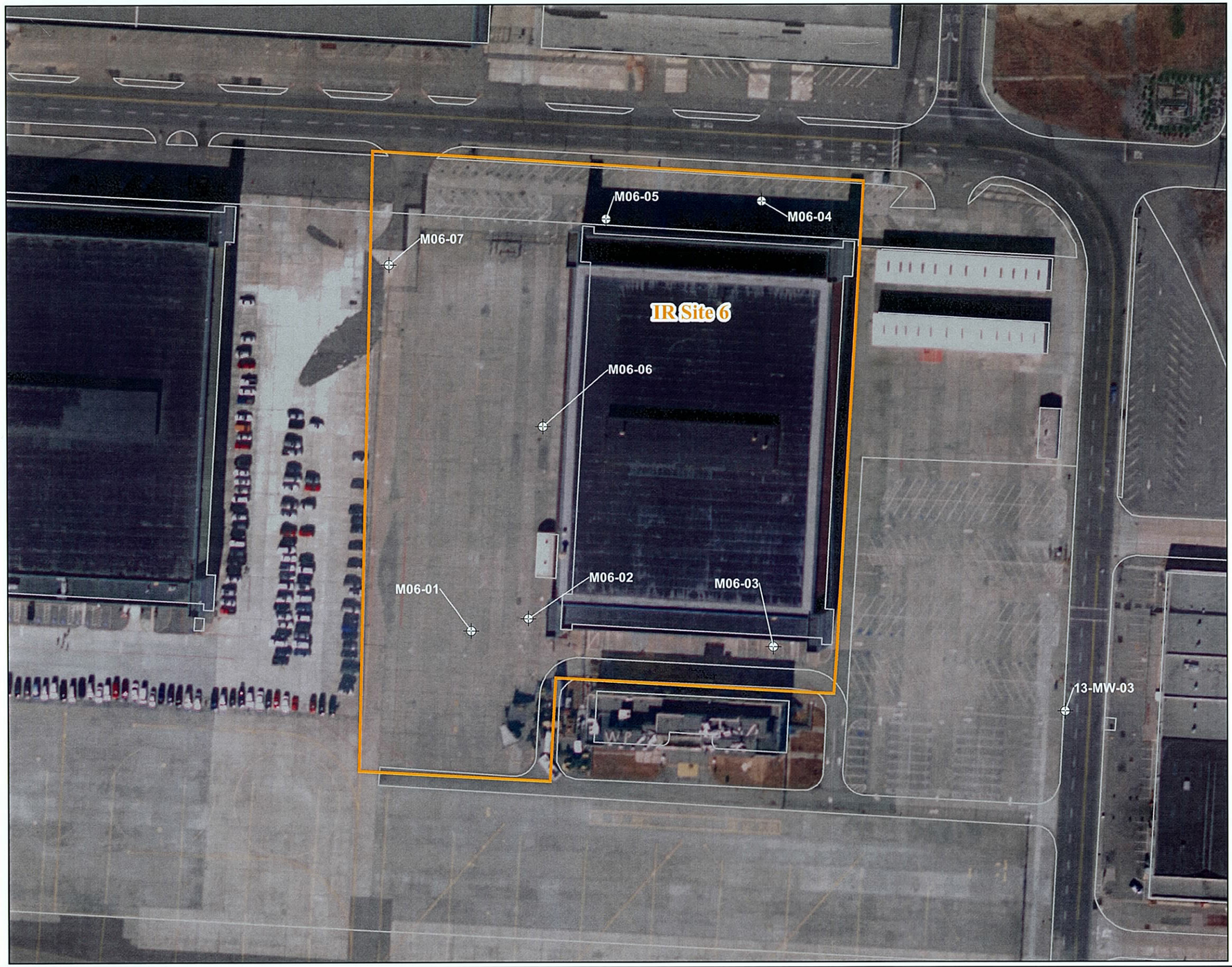

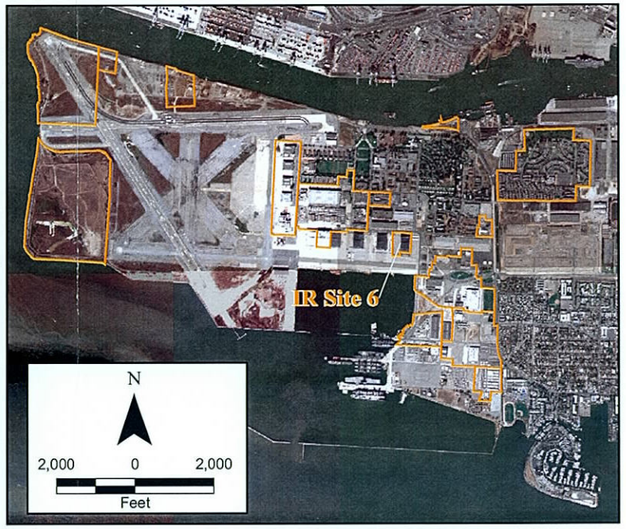

Legend

- First Water Bearing Zone (FWBZ) Wells
- IR Site Boundary
- Facility

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Feet

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FIGURE 3.1-1
OPERABLE UNIT 1 - IR SITE 6
SITE AND WELL LOCATION MAP

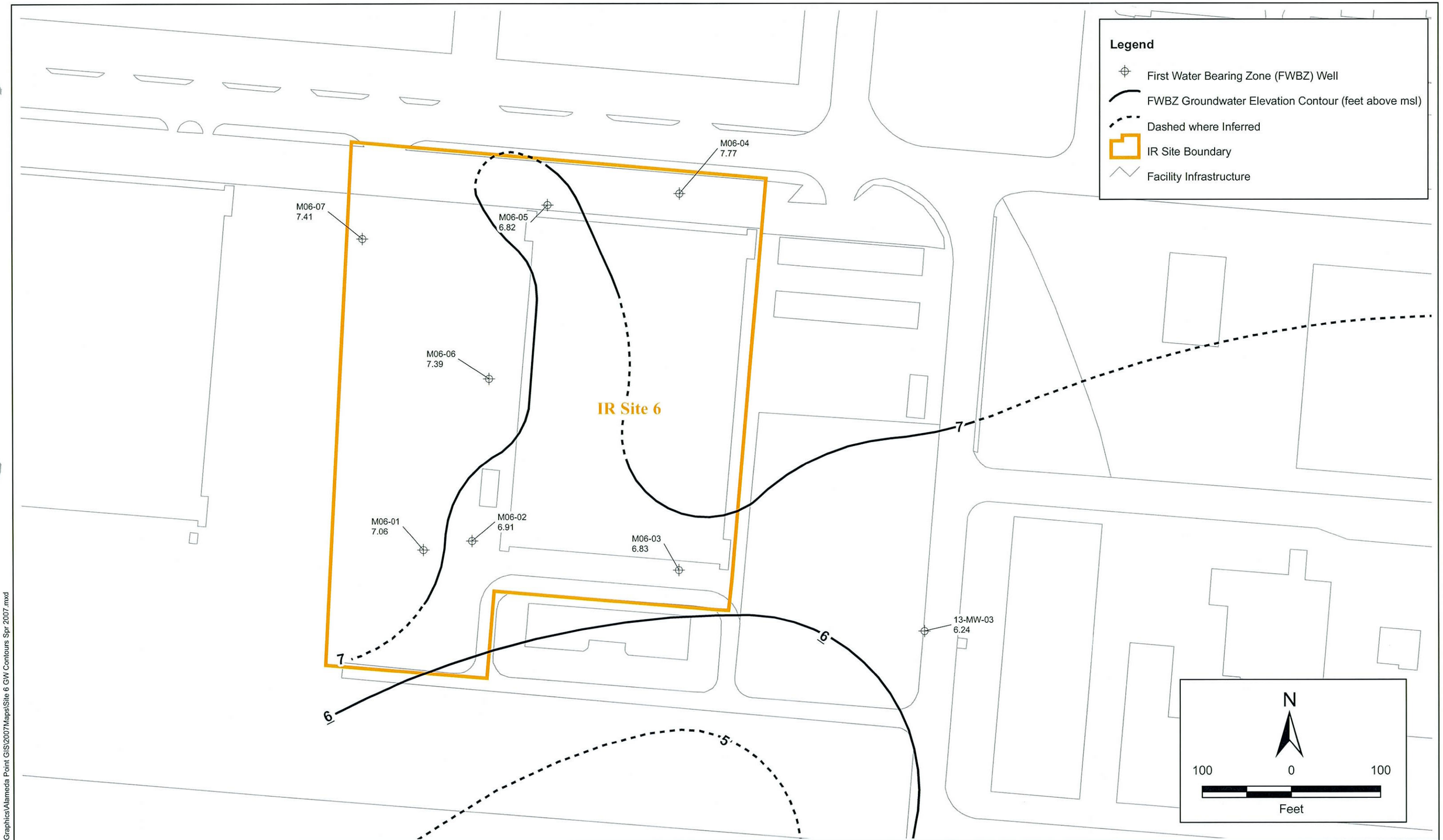

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FIGURE 3.1-2
OPERABLE UNIT 1 - IR SITE 6
GROUNDWATER ELEVATION MAP (FWBZ)
SPRING 2007

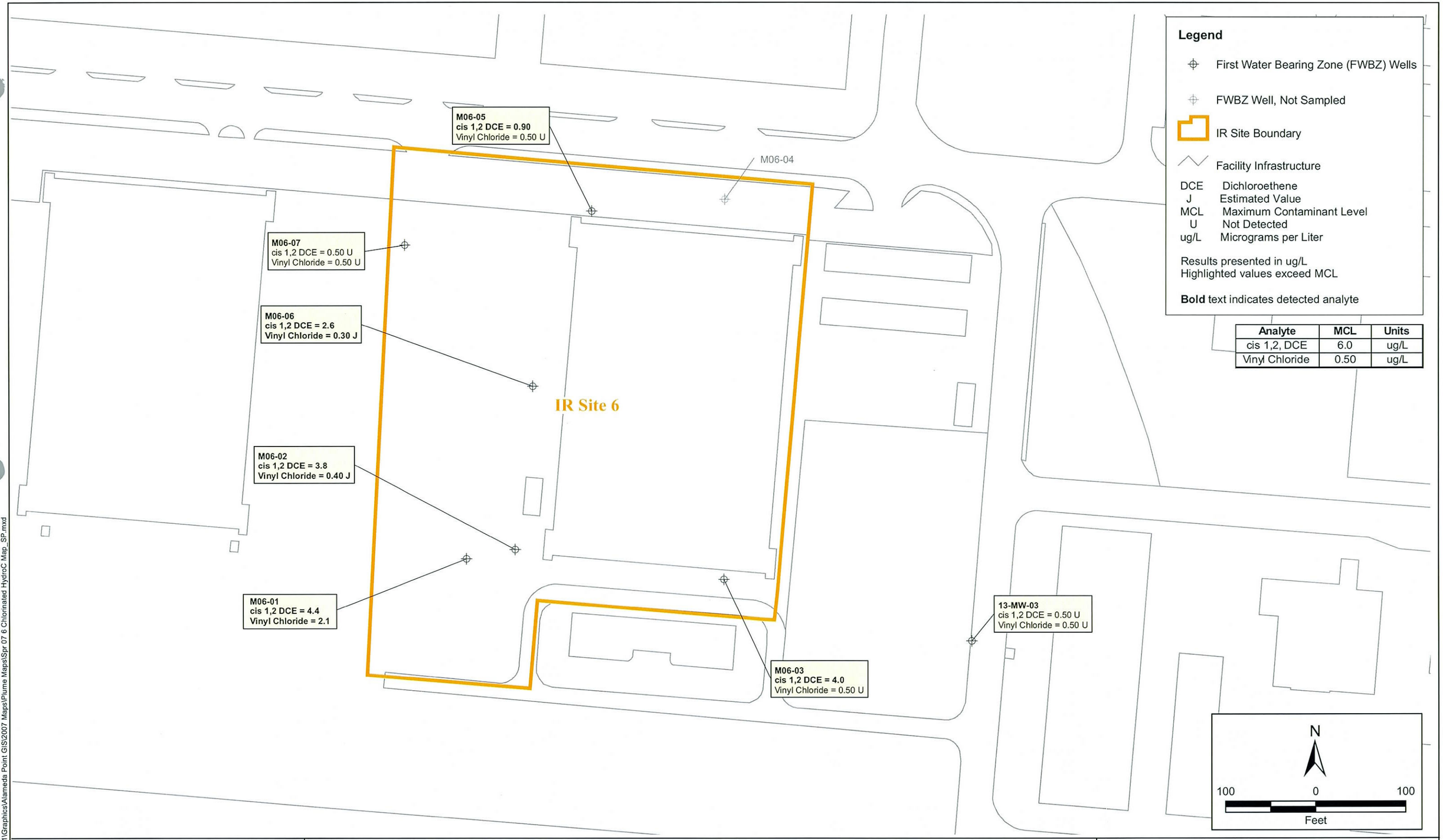

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FIGURE 3.1-3
OPERABLE UNIT 1 - IR SITE 6
GROUNDWATER CONCENTRATIONS OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2007

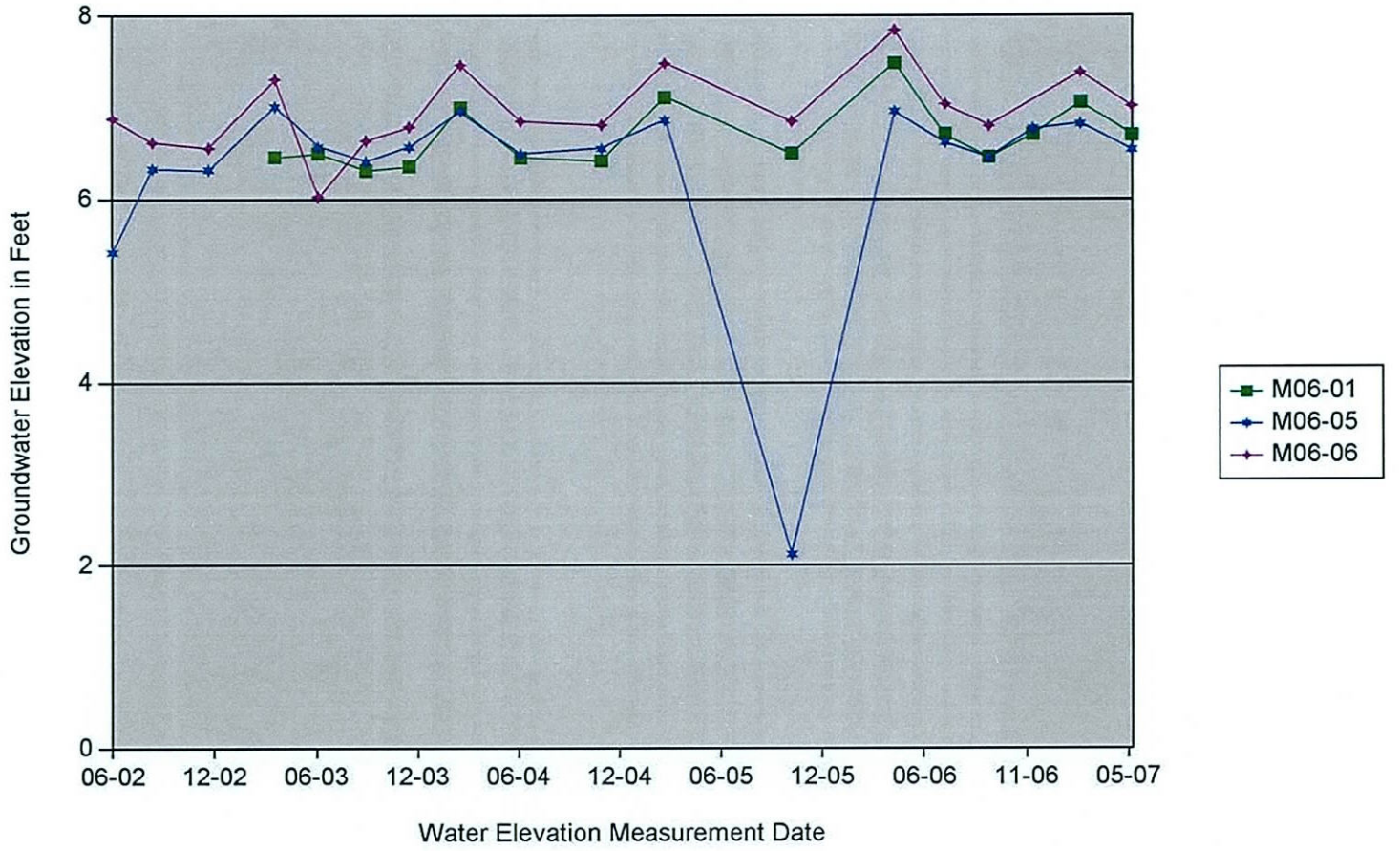

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FIGURE 3.1-4
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 6:
NORTH-SOUTH ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 6\Figure 3.1-4.ai

2002 Projects\25.11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 6 Chlor HydroC Trend Map.mxd

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FIGURE 3.1-5
OPERABLE UNIT 1 - IR SITE 6
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

3.2 INSTALLATION RESTORATION SITE 7

IR Site 7 consists of the former Naval Exchange Service Station (Building 459) and the surrounding area in the northeastern portion of Alameda Point (Figure 1-2) near the corner of Main Street and West Tower Avenue. The site included an auto repair shop, a small convenience store, and nine underground storage tanks (USTs). One of the 500-gallon USTs (UST Number 459-8) was reportedly used for storing solvents. The Exchange Service Station operated from 1966 to 1997; all USTs were removed by the end of 1997. IR Site 7 buildings also include Building 506, a maintenance, storage and auto hobby shop; the service station pump island (known as "284"); and Building 408, which was a former Exchange Central Support Building.

Potential sources of contamination identified at IR Site 7 include gasoline USTs, associated fuel lines, and pump islands. Other potential contaminant sources include the industrial, sanitary, and storm sewer lines located near IR Site 7. A former municipal waste incinerator (Building 68) was located in the vicinity of IR Site 7 prior to construction of Building 459.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 7 included measurement of quarterly groundwater levels at 14 FWBZ and 3 SWBZ groundwater monitoring wells and collection and analysis of groundwater samples from two of the FWBZ groundwater monitoring wells.

Groundwater monitoring wells and analytical requirements for the Summer 2006 through Spring 2007 program for IR Site 7 are listed in Table 3.2 1. Table 3.2 1 also indicates the screen interval, water-bearing zone, and geologic formation for each well. The non-program wells (i.e., wells not sampled) used for obtaining water-level measurements are also shown in Table 3.2 1. IR Site 7 and well locations are presented on Figure 3.2-1.

3.2.1 Groundwater Level Measurement Summary

Groundwater levels from 17 groundwater monitoring wells were measured and recorded during the Summer 2006 through Spring 2007 sampling events at IR Site 7. The results of the groundwater measurement activities are presented with previous water-level data in Table 3.2-2.

3.2.2 Analytical Parameters

Groundwater samples at IR Site 7 collected during the Fall 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- TPH (purgeables) as gasoline by EPA Method 8015B
- TPH (extractables) as diesel, jet fuel, and motor oil by EPA Method 8015B
- VOCs by EPA Method 8260B
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK SOP 175 (methane, ethane, ethene), EPA Methods 9056/300.0 (nitrate, nitrite, chloride, sulfate), 310.1 (alkalinity), 376.2 (sulfide), and Hach 8146 (ferrous iron by field method)
- Field Parameters (measured using portable field instruments).

Table 3.2-1 lists all IR Site 7 groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

3.2.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following subsections, and listed along with previously obtained analytical data in the following tables

- Table 3.2-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 7, Summer 2002 through Spring 2007"
- Table 3.2-4, "Groundwater Sample Analytical Results: Polycyclic Aromatic Hydrocarbons at Operable Unit 1 - IR Site 7, Summer 2002 through Spring 2007"
- Table 3.2-5, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 1 - IR Site 7, Summer 2002 through Spring 2007"
- Table 3.2-6, "Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 7, Summer 2002 through Spring 2007"
- Table 3.2-7, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1- IR Site 7, Summer 2002 through Spring 2007"

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal

Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data.

Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

3.2.4 Discussion of Results

Groundwater samples collected during the current sampling year (Summer 2006 to Spring 2007) indicate groundwater concentrations of TPH as diesel, jet fuel, and motor oil were not detected in the groundwater samples collected from FWBZ groundwater monitoring wells MO7A-03 and MO7A-10. The analytical results of groundwater samples collected during Summer 2006 through the Summer 2007 event are presented in Table 3.2-3.

Historically, concentrations of aromatic hydrocarbons, particularly methyl tertiary-butyl ether (MTBE), have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ and the SWBZ at IR Site 7. During the Fall 2006 and Spring 2007 event, concentrations of MTBE were detected at 1.3J µg/L (estimated value) and 1.3 µg/L, respectively, in the groundwater sample collected from FWBZ groundwater monitoring well M07A-10. MTBE was not detected in groundwater samples collected from FWBZ groundwater monitoring well M07A-3. The analytical results of groundwater samples collected during Summer 2006 and Spring 2007 events are presented in Table 3.2-3.

Groundwater concentrations of PAHs were predominantly non-detect for wells sampled for PAHs during the Summer 2006 through Spring 2007 events. However, analytical results for groundwater samples collected from monitoring well M07A-10, reported concentrations of fluoranthene of 0.45 µg/L and 0.34 µg/L during the Fall 2006 and Spring 2007 events,

respectively. The PAH analytical results of groundwater samples collected during Summer 2006 through Spring 2007 are presented in Table 3.2-4.

During the Fall 2006 event, analytical results for metals in groundwater samples collected from FWBZ well M07A-10 reported concentrations of **arsenic** of 15.0 µg/L, which is below the background value for arsenic (20.7 µg/L) but above the MCL of 10.0 µg/L (as of January 23, 2006). During the Spring 2007 event, concentrations of **arsenic** in groundwater samples collected from well M07A-10 had dropped to 8.5 µg/L, below its MCL. The metal analytical results of groundwater samples collected from wells M07A-03 and M07A-10 during the Fall 2006 and Spring 2007 events are summarized in Table 3.2-5.

Field parameters measured and recorded during the Fall 2006 and Spring 2007 sampling events are presented in Table 3.2-6.

During the Fall 2006 and Spring 2007 events, groundwater monitoring wells M07A-03 and M07A-10 at IR Site 7 were monitored for various natural attenuation parameters. These parameters include alkalinity, dissolved gasses, anions (nitrate, nitrite, chloride, sulfate as SO4), and sulfide. A summary of the natural attenuation parameters for the groundwater monitoring wells at the site is presented in Table 3.2-7.

3.2.4.1 Groundwater Flow Direction and Gradient

The groundwater flow direction in the FWBZ at IR Site 7 is variable, defined by a groundwater mound centered on well M07A-01 located within the western portion of the site. The groundwater gradient is variable, with an approximate average of 0.005 foot per foot measured toward the northeast. Groundwater elevation contours for the Spring 2007 event for FWBZ groundwater monitoring wells are shown on Figure 3.2-2.

The groundwater gradient in the SWBZ is variable, averaging 0.02 foot per foot measured in the northeast direction. Generally, groundwater levels measured within the SWBZ wells at IR Site 7 are two to three feet higher than the adjacent FWBZ wells. The significant difference in groundwater elevations suggests at least semi-confined conditions in the lower water-bearing zone and subsequently a slight upward vertical gradient. Groundwater elevation contours for

the Spring 2007 groundwater monitoring event for the SWBZ of IR Site 7 are shown on Figure 3.2-2.

3.2.4.2 Groundwater Contaminant Distribution

MTBE results for groundwater for samples collected from monitoring wells M07A-03 and M07A-10 during the Spring 2007 event are posted on Figure 3.2-3. Historically, an MTBE plume exceeding the MCL exists mainly in the northeastern portion of the IR Site 7, extending beyond the northeastern and eastern perimeters of the site.

3.2.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 3.2-8, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow. Table 3.2-8 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those reported for previous sampling events.

Historically, analytical results for TPH as diesel, jet fuel, and motor oil have indicated a general decrease during the current year in sampled FWBZ wells when compared with the prior historical data. MTBE has been consistently detected above its MCL in FWBZ wells, but not in the currently monitored wells. Barium has also been consistently detected, but has been within the range of results of the historical data. Other metals (such as aluminum in well M07A-09, which exceeded its MCL in Summer 2002) have not been detected, or the detections have been below the laboratory reporting limit, for six consecutive events.

3.2.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevations over the time are illustrated on Figure 3.2-4 using paired groundwater monitoring wells from the FWBZ and SWBZ. The paired wells depicted on Figure 3.2-4 are MO7A-03/DO7A-02, and M07A-02/D07A-03. As shown on Figure 3.2-4, groundwater elevations in SWBZ wells are generally higher than in the paired FWBZ wells,

indicating the possibility that semi-confined conditions at depth are providing higher water elevations in the wells from SWBZ than in the wells screened within the FWBZ.

3.2.4.5 Trends in Groundwater Contaminant Concentrations

Trends in groundwater contaminant concentrations in selected wells over time are displayed on Figure 3.2-5. MTBE concentrations in the majority of wells sampled indicate decreasing concentrations over time. Greater variations in MTBE concentrations, such as those reported in cross-gradient wells M07A-09 and M07A-08 in Winter 2003 and Spring 2004, may indicate a seasonal lateral expansion of the plume.

3.2.5 Conclusions and Recommendations

Analytical results for TPH as diesel, jet fuel, and motor oil indicate a decrease from historical levels during the Summer 2006 and Spring 2007 sampling rounds in the program wells for IR Site 7 in the FWBZ.

Historically, MTBE–the IR Site 7 contaminant of concern–has exceeded the MCLs in the northeastern portion of the site, extending beyond the northeastern and eastern site perimeters. MTBE has been consistently detected in groundwater samples collected from these wells during recent monitoring events. During the Fall 2006 and Spring 2007 events, MTBE was detected in the groundwater samples collected from M07A-10 at concentrations of 1.3 µg/L, well below the MCL of 13.0 µg/L. Well M07A-11 located east of M07A-10 is recommended for sampling instead of M07A-10 as it has historically indicated higher MTBE concentrations.

Based upon a review of the historical analytical results, the Navy recommends continued sampling for TPH-E. TPH-P, BTEX plus MTBE (EPA Method 8020), VOCs, PAHs, and metals, and eliminating natural attenuation parameters. There are only two IR Site 7 wells currently sampled under the Alameda Basewide Groundwater Monitoring Program: M07A-03 and M07A-10. All detected concentrations of PAHs that have been found in these wells to date (6 rounds of sampling) have been below 1 µg/L. The natural attenuation database for IR Site 7 is currently adequate for the site needs. Final approval of the proposed changes will be made after review of the status of Corrective Action Area 7 and the results of recent sampling efforts at oil/water separator (OWS) 459.

After the Spring 2008 round, sampling at IR7 will be performed under the upcoming Petroleum Basewide Sampling Program (PBSP). The PBSP is under development, and a work plan will be presented to the agencies for comment. The site is being transitioned to the Alameda Point PBSP as specified in the Site 7 ROD.

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TABLES

FINAL
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DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 3.2-1
Groundwater Monitoring Summary, Operable Unit 1-IR Site 7, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells													
First	M07A-03	Fill-BSU	7 - 15.5	S	S	S	S	S	A	A	A	A	A
	M07A-10	Fill-BSU	2.5 - 10.5	S	S	S	S	S	A	A	A	A	A
Non-Program Wells, Water Level Only													
First	M07A-01	Fill-BSU	3 - 9.5	-	-	-	-	-	-	-	-	-	-
	M07A-02	Fill-BSU	5 - 15.5	-	-	-	-	-	-	-	-	-	-
	M07A-04	Fill-BSU	3 - 7	-	-	-	-	-	-	-	-	-	-
	M07A-05	Fill-BSU	5.5 - 15	-	-	-	-	-	-	-	-	-	-
	M07A-06B	Fill-BSU	2.5 - 12	-	-	-	-	-	-	-	-	-	-
	M07A-07	Fill-BSU	3 - 10	-	-	-	-	-	-	-	-	-	-
	M07A-08	Fill-BSU	2.5 - 11	-	-	-	-	-	-	-	-	-	-
	M07A-09	Fill-BSU	2.5 - 11	-	-	-	-	-	-	-	-	-	-
	M07A-11	Fill-BSU	2.5 - 10.5	-	-	-	-	-	-	-	-	-	-
	W-1	Fill-BSU	2 - 10	-	-	-	-	-	-	-	-	-	-
	W-2	Fill-BSU	2 - 10	-	-	-	-	-	-	-	-	-	-
	W-3	Fill-BSU	2 - 10	-	-	-	-	-	-	-	-	-	-
Second	D07A-01	USA	58 - 68	-	-	-	-	-	-	-	-	-	-
	D07A-02	USA	50 - 60	-	-	-	-	-	-	-	-	-	-
	D07A-03	Merritt-USA	50 - 60	-	-	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons
USA - Upper San Antonio Formation
Merritt - Merritt Sand

VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 3.2-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 7-
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07A-01	10.6	10.13 *	03/06/07	1.92	8.21
		10.6	10.13 *	12/14/06	2.33	7.80
		10.6	10.13 *	09/25/06	3.21	6.92
		10.6	10.13 *	07/12/06	2.61	7.52
		10.6	10.13 *	04/12/06	2.35	7.78
		10.6	10.13 *	08/23/05	3.07	7.06
		10.6	10.13 *	02/28/05	1.64	8.49
		10.6	10.13 *	11/11/04	3.11	7.02
		10.6	10.13 *	06/15/04	2.73	7.40
		10.6	10.13 *	03/01/04	NF	NC
		10.6	10.13 *	12/02/03	NF	NC
		10.6	10.13 *	09/15/03	NA	NC
		10.6	10.13 *	06/23/03	NA	NC
		10.6	10.13 *	04/07/03	2.26	7.87
		10.6	10.13 *	12/11/02	NM	NC
		10.6	10.13 *	09/10/02	3.22	6.91
		10.6	10.13 *	07/15/02	2.90	7.23
First	M07A-02	10.6	9.90 *	03/06/07	2.55	7.35
		10.6	9.90 *	12/14/06	5.51	4.39
		10.6	9.90 *	09/25/06	4.15	5.75
		10.6	9.90 *	07/11/06	4.23	5.67
		10.6	9.90 *	04/11/06	3.88	6.02
		10.6	9.90 *	08/22/05	3.33	6.57
		10.6	9.90 *	02/28/05	4.30	5.60
		10.6	9.90 *	11/11/04	5.31	4.59
		10.6	9.90 *	06/15/04	4.40	5.50
		10.6	9.90 *	03/01/04	4.72	5.18
		10.6	9.90 *	12/02/03	4.31	5.59
		10.6	9.90 *	09/15/03	4.12	5.78
		10.6	9.90 *	06/23/03	4.46	5.44
		10.6	9.90 *	04/07/03	3.38	6.52
		10.6	9.90 *	12/11/02	3.74	6.16
		10.6	9.90 *	09/10/02	2.69	7.21
		10.6	9.90 *	06/21/02	4.32	5.58
First	M07A-03	10.3	9.88 *	03/06/07	2.59	7.29
		10.3	9.88 *	12/13/06	4.12	5.76
		10.3	9.88 *	09/25/06	6.26	3.62
		10.3	9.88 *	07/11/06	3.71	6.17
		10.3	9.88 *	04/12/06	5.05	4.83
		10.3	9.88 *	08/22/05	5.74	4.14
		10.3	9.88 *	02/28/05	2.40	7.48
		10.3	9.88 *	11/11/04	6.70	3.18
		10.3	9.88 *	06/15/04	3.62	6.26
		10.3	9.88 *	03/01/04	5.02	4.86
		10.3	9.88 *	12/02/03	5.70	4.18
		10.3	9.88 *	09/15/03	4.23	5.65
		10.3	9.88 *	06/23/03	3.02	6.86

Table 3.2-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 7-
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07A-03	10.3	9.88 *	04/07/03	3.16	6.72
		10.3	9.88 *	12/11/02	5.45	4.43
		10.3	9.88 *	09/10/02	3.15	6.73
		10.3	9.88 *	06/24/02	2.95	6.93
First	M07A-05	9.5	9.34	03/06/07	1.38	7.96
		9.5	9.34	12/13/06	2.6	6.74
		9.5	9.34	09/25/06	3.98	5.36
		9.5	9.34	07/11/06	3.15	6.19
		9.5	9.34	04/12/06	2.65	6.69
		9.5	9.34	08/22/05	4.06	5.28
		9.5	9.34	02/28/05	1.81	7.53
		9.5	9.34	11/11/04	2.98	6.36
		9.5	9.34	06/15/04	3.35	5.99
		9.5	9.34	03/01/04	1.48	7.86
		9.5	9.34	12/02/03	4.23	5.11
		9.5	9.34	09/15/03	4.87	4.47
		9.5	9.34	06/23/03	3.50	5.84
		9.5	9.34	04/07/03	NM	NC
		9.5	9.34	12/11/02	3.82	5.52
		9.5	9.34	09/10/02	4.04	5.30
		9.5	9.34	06/24/02	3.20	6.14
First	M07A-07	9.9	9.70 *	03/06/07	3.06	6.64
		9.9	9.70 *	12/14/06	NM	NC
		9.9	9.70 *	09/25/06	4.78	4.92
		9.9	9.70 *	07/11/06	3.22	6.48
		9.9	9.70 *	04/11/06	1.36	8.34
		9.9	9.70 *	08/22/05	4.10	5.60
		9.9	9.70 *	02/28/05	2.44	7.26
		9.9	9.70 *	11/11/04	3.77	5.93
		9.9	9.70 *	06/15/04	3.28	6.42
		9.9	9.70 *	03/01/04	3.76	5.94
		9.9	9.70 *	12/02/03	NF	NC
		9.9	9.70 *	09/15/03	4.40	5.30
		9.9	9.70 *	06/23/03	3.64	6.06
		9.9	9.70 *	04/07/03	2.43	7.27
		9.9	9.70 *	12/11/02	5.50	4.20
		9.9	9.70 *	09/10/02	4.63	5.07
		9.9	9.70 *	06/21/02	3.41	6.29
First	M07A-08	7.8	7.55 *	03/06/07	0.75	6.80
		7.8	7.55 *	12/14/06	NM	NC
		7.8	7.55 *	09/25/06	2.61	4.94
		7.8	7.55 *	07/11/06	2.36	5.19
		7.8	7.55 *	04/11/06	0.80	6.75
		7.8	7.55 *	08/22/05	2.10	5.45
		7.8	7.55 *	02/28/05	0.43	7.12
		7.8	7.55 *	11/11/04	0.04	7.51
		7.8	7.55 *	06/15/04	1.85	5.70

Table 3.2-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 7-
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07A-08	7.8	7.55 *	03/01/04	0.24	7.31
		7.8	7.55 *	12/02/03	0.42	7.13
		7.8	7.55 *	09/15/03	3.21	4.34
		7.8	7.55 *	06/23/03	2.18	5.37
		7.8	7.55 *	04/07/03	1.29	6.26
		7.8	7.55 *	12/11/02	0.50	7.05
		7.8	7.55 *	09/10/02	2.61	4.94
		7.8	7.55 *	06/21/02	2.58	4.97
First	M07A-09	8.7	8.39 *	03/06/07	1.11	7.28
		8.7	8.39 *	12/14/06	NS	NC
		8.7	8.39 *	09/25/06	2.70	5.69
		8.7	8.39 *	07/11/06	2.48	5.91
		8.7	8.39 *	04/11/06	0.86	7.53
		8.7	8.39 *	08/22/05	2.30	6.09
		8.7	8.39 *	02/28/05	0.95	7.44
		8.7	8.39 *	11/11/04	1.02	7.37
		8.7	8.39 *	06/15/04	2.35	6.04
		8.7	8.39 *	03/01/04	0.89	7.50
		8.7	8.39 *	12/02/03	0.85	7.54
		8.7	8.39 *	09/15/03	3.30	5.09
		8.7	8.39 *	06/23/03	4.00	4.39
		8.7	8.39 *	04/07/03	1.78	6.61
		8.7	8.39 *	12/11/02	1.25	7.14
		8.7	8.39 *	09/10/02	2.70	5.69
		8.7	8.39 *	06/21/02	2.77	5.62
First	M07A-10	8.13	8.13	03/06/07	0.69	7.44
		8.13	8.13	12/14/06	0.04	8.09
		8.13	8.13	09/25/06	2.98	5.15
		8.13	8.13	07/11/06	2.45	5.68
		8.13	8.13	04/11/06	0.6	7.53
		8.13	8.13	08/22/05	2.65	5.48
		8.13	8.13	02/28/05	0.45	7.68
		8.13	8.13	11/11/04	1.12	7.01
		8.13	8.13	06/15/04	2.42	5.71
First	M07A-11	7.38	7.38	03/06/07	1.58	5.80
		7.38	7.38	12/14/06	1.32	6.06
		7.38	7.38	09/25/06	2.75	4.63
		7.38	7.38	07/11/06	2.51	4.87
		7.38	7.38	04/11/06	1.22	6.16
		7.38	7.38	08/22/05	2.40	4.98
		7.38	7.38	02/28/05	1.34	6.04
		7.38	7.38	11/11/04	1.39	5.99
		7.38	7.38	06/15/04	2.19	5.19
Second	D07A-01	5.9	6.11 *	03/06/07	1.12	4.99
		5.9	6.11 *	12/13/06	1.5	4.61
		5.9	6.11 *	09/25/06	1.65	4.46
		5.9	6.11 *	07/11/06	1.31	4.80

Table 3.2-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 7-
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D07A-01	5.9	6.11 *	04/12/06	2.35	3.76
		5.9	6.11 *	08/22/05	1.33	4.78
		5.9	6.11 *	02/28/05	0.16	5.95
		5.9	6.11 *	11/11/04	1.00	5.11
		5.9	6.11 *	06/15/04	0.79	5.32
		5.9	6.11 *	03/01/04	0.12	5.99
		5.9	6.11 *	12/02/03	1.43	4.68
		5.9	6.11 *	09/15/03	1.50	4.61
		5.9	6.11 *	06/23/03	1.23	4.88
		5.9	6.11 *	04/07/03	1.36	4.75
		5.9	6.11 *	12/18/02	1.33	4.78
		5.9	6.11 *	09/10/02	2.00	4.11
		5.9	6.11 *	07/03/02	1.80	4.31
Second	D07A-02	10.5	10.29 *	03/06/07	2.76	7.53
		10.5	10.29 *	12/13/06	3.16	7.13
		10.5	10.29 *	09/25/06	3.51	6.78
		10.5	10.29 *	07/11/06	3.26	7.03
		10.5	10.29 *	04/12/06	2.13	8.16
		10.5	10.29 *	08/22/05	3.08	7.21
		10.5	10.29 *	02/28/05	1.82	8.47
		10.5	10.29 *	11/11/04	3.02	7.27
		10.5	10.29 *	06/15/04	2.83	7.46
		10.5	10.29 *	03/01/04	1.84	8.45
		10.5	10.29 *	12/02/03	3.31	6.98
		10.5	10.29 *	09/15/03	3.40	6.89
		10.5	10.29 *	06/23/03	3.12	7.17
		10.5	10.29 *	04/07/03	3.14	7.15
		10.5	10.29 *	12/11/02	3.58	6.71
		10.5	10.29 *	09/10/02	3.80	6.49
		10.5	10.29 *	07/08/02	3.56	6.73
Second	D07A-03	10.6	10.30 *	03/06/07	2.64	7.66
		10.6	10.30 *	12/14/06	2.85	7.45
		10.6	10.30 *	09/25/06	3.24	7.06
		10.6	10.30 *	07/11/06	3.02	7.28
		10.6	10.30 *	04/11/06	1.92	8.38
		10.6	10.30 *	08/22/05	2.84	7.46
		10.6	10.30 *	02/28/05	1.81	8.49
		10.6	10.30 *	11/11/04	2.73	7.57
		10.6	10.30 *	06/15/04	3.13	7.17
		10.6	10.30 *	03/01/04	1.62	8.68
		10.6	10.30 *	12/02/03	3.17	7.13

Table 3.2-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 7-
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D07A-03	10.6	10.30 *	09/15/03	3.30	7.00
		10.6	10.30 *	06/23/03	3.03	7.27
		10.6	10.30 *	04/07/03	3.16	7.14
		10.6	10.30 *	12/11/02	3.76	6.54
		10.6	10.30 *	09/10/02	3.90	6.40
		10.6	10.30 *	07/03/02	3.70	6.60

Notes:
BTOC = below top of casing
msl = mean sea level
NA = Monitoring well not accessible
NC = Groundwater elevation not calculated
NF = Monitoring well not found
NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

Table 3.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1200	94.0	820	< 50.0	2110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 290	< 200	< 50.0	< 290	< 0.50 UJ	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-02	2005 02 (Summer)	79.0	< 50.0	< 300	< 50.0	79.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	2600	300	880	< 50.0	3780	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-03	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	170 J	< 50.0	170	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.40 J	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	170 J	< 50.0	170	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2005 02 (Summer)	74.0	< 50.0	330	21.0 J	425	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	2300 J	320	470	< 50.0	3090	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	2600	370	640	< 50.0	3610	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	42.0 J	< 50.0	250 J	< 50.0	292	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	190	< 280	280	< 50.0	470	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	300	< 280	130 J	< 50.0	430	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	1.0 J	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-05	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1300	230	500	< 50.0	2030	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2 J	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	130 J	< 280	130 J	< 50.0	260	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	0.74 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	160 J	< 290	< 200	< 50.0	160	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.96 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	2.5 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-07	2005 02 (Summer)	170	< 50.0	120 J	< 50.0	290	0.30 J	< 0.50	0.50	0.30 J	0.20 J	6.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	13000 J	2400 J	1800 J	< 50.0 UJ	17200	0.30 J	< 0.50 UJ	0.60 J	0.30 J	0.30 J	2.8 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	14000	2400	1900	< 50.0	18300	0.40 J	< 0.50	0.60	0.40 J	0.30 J	9.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	210	100	< 300	< 50.0	310	0.20 J	< 0.50	0.50 J	0.30 J	0.20 J	5.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	750	< 280	270	< 50.0	1020	0.22 J	< 1.0 UJ	0.57 J	0.49 J	0.35 J	4.1	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	0.30 J	< 1.0	0.47 J	0.34 J	0.29 J	6.4	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 02 (Summer)	220	< 290	< 190	< 50.0	220	< 0.50	< 1.0	0.40 J	< 1.0	0.26 J	4.3	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 01 (Spring)	310	130	130 J	< 50.0	570	0.20 J	< 0.50	0.40 J	0.20 J	0.40 J	4.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	170	94.0	170 J	< 50.0	434	< 0.30 J	0.30 J	0.40 J	0.30 J	< 0.50	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	230	70.0	130 J	< 50.0	430	0.40 J	0.10 J	0.40 J	0.30 J	0.20 J	< 4.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.60	< 0.50	< 0.50	5.3 J	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.10 J	< 0.50	< 0.50	< 0.50
	M07A-08	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	7.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	310 J	< 50.0 UJ	< 300 UJ	< 50.0 UJ	310	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	17.0 J	0.20 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	770	67.0	700	< 50.0	1540	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	3.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	9.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	12.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	180 J	< 50.0	180	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	53.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	13.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	4.8 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	**Well No.**	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	M07A-08	2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	31.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	15.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-09	2005 02 (Summer)	120	< 50.0	< 300	< 50.0	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	840 J	83.0	370	< 50.0	1290	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	820	57.0	530	< 50.0	1410	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	6.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	3.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	30.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	23.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.65 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	120 J	< 280	< 190	< 50.0	120	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	4.0	< 0.50	1.8	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	35.0 J	< 50.0	< 300	< 50.0	35.0	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	370	67.0	450	< 50.0	887	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-10	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 17.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.3	0.20 J	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.090 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	1.3 J	0.70 J	< 2.5	< 2.5	0.50 J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2006 01 (Spring)	< 50.0	< 50.0	160 J	< 50.0	160	0.10 J	0.10 J	0.10 J	< 0.50	< 0.50	< 2.0	2.5	0.10 J	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	3.9	0.90	1.5	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	16.0	0.40 J	0.80	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	190	0.40 J	0.90 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.0	1.0	1.9	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
	M07A-11	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	15.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	17.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	22.0	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	42.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D07A-01	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	240	< 50.0	240	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	2.5 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	2.9 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	4.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	5.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D07A-02	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D07A-03	2005 02 (Summer)	< 50.0	< 50.0	87.0 J	< 50.0	87.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.12 J	< 0.19	< 0.10	< 0.95	< 0.10	0.13
		2005 01 (Spring)	< 0.95 UJ	< 1.9 UJ	0.070 J	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	0.10 J	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	0.090 J	0.14 J
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.12 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M07A-02	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.12 J	< 0.19	< 0.10	< 0.96	< 0.10	0.16
		2005 01 (Spring)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.11 J	< 0.19	< 0.10	< 0.97	< 0.10	0.14
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.093 J	< 1.0	< 1.0	< 1.0	< 1.0	0.88 J
	M07A-03	2007 01 (Spring)	< 0.95	< 1.9	0.020 J	< 0.10	< 0.10	< 0.19	< 0.19	0.0080 J	< 0.10	< 0.19	0.060 J	0.070 J	< 0.10	< 0.95	0.0070 J	0.050 J
		2006 03 (Fall)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.080 J	0.040 J	< 0.10	< 0.95	0.010 J	0.080 J
		2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.060 J	7.8	< 0.10	< 0.96	< 0.10	0.050 J
		2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	0.050 J
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.83 J
	M07A-05	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.51	< 0.19	< 0.10	< 0.95	< 0.10	0.50
		2005 01 (Spring)	< 0.94	< 1.9	0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.56	< 0.19	< 0.090	0.25 J	< 0.090	0.58
		2004 04 (Winter)	< 1.0	< 1.0	0.084 J	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	1.1
	M07A-07	2005 02 (Summer)	1.0	< 1.9	0.55	0.22	0.24	0.12 J	0.22	0.050 J	0.22	0.22	4.8	0.32	0.18	3.8	1.5	4.1
		2005 01 (Spring)	< 0.98 UJ	< 2.0 UJ	< 0.10 UJ	0.11 J	0.10 J	0.080 J	< 0.20 UJ	< 0.10 UJ	0.13 J	< 0.20 UJ	3.1 J	0.75 J	0.030 J	7.7 J	< 0.10 UJ	2.8 J
		2004 04 (Winter)	< 1.0	< 1.0	0.65 J	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	0.12 J	< 1.0	< 1.0	< 1.0	< 1.0	5.4	0.95 J	2.0
	M07A-08	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.030 J
		2005 01 (Spring)	< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J
	M07A-09	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.060 J	< 0.19	< 0.10	< 0.96	< 0.10	0.12
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M07A-10	2007 01 (Spring)	< 0.94	< 1.9	0.040 J	0.010 J	< 0.090	< 0.19	< 0.19	0.0090 J	< 0.090	< 0.19	0.34	0.050 J	< 0.090	< 0.94	< 0.090	0.34 J
		2006 03 (Fall)	0.46 J	< 1.9	0.020 J	0.030 J	< 0.10	0.020 J	< 0.19	< 0.10	< 0.10	< 0.19	0.45	< 0.19	< 0.10	< 0.95	0.020 J	0.53
		2006 01 (Spring)	< 0.97	< 1.9	< 0.10	0.030 J	< 0.10	< 0.19	< 0.19	< 0.10	0.020 J	< 0.19	0.45	< 0.19	< 0.10	< 0.97	< 0.10	0.63
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	0.050 J	0.010 J	< 0.19	< 0.19	< 0.10	0.030 J	< 0.19	0.89	< 0.19	< 0.10	< 0.95	< 0.10	1.2

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-10	2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.22	< 0.19	< 0.10	< 0.95	< 0.10	0.41
		2004 04 (Winter)	< 1.0	< 1.0	0.067 J	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M07A-11	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.040 J
		2005 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SWBZ	D07A-01	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.030 J
		2005 01 (Spring)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	D07A-02	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	D07A-03	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 01 (Spring)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	0.97 J	7.2	**620**	< 2.0	0.58 J	1.1 J	1.5	< 10.0	< 3.0	**2300**	< 0.20	< 20.0	10.0 J	< 5.0	< 5.0	< 5.0	11.0	11.0 J	120 J	**11000**	**350**	**370**	100	3100
		2004 04 (Winter)	0.37 J	6.6	550	0.90 J	< 5.0	< 10.0	0.98 J	< 10.0	< 3.0	**2000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	11.0	< 20.0	< 100	**13000**	100	25.0	100	41.0
		2004 02 (Summer)	3.0	12.0	520	< 1.0	< 5.0	2.5 J	1.2	1.9	0.17 J	**1900**	< 0.20	1.2 J	12.0	< 5.0	< 1.0	< 5.0	6.8 J	< 1.0	< 50.0	**17000**	**370**	**450**	110	**3800**
		2004 01 (Spring)	< 5.0	8.1 J	446	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1870 J**	< 1.0	< 50.0	10.4 J	< 20.0	< 10.0	< 10.0	6.1 J	**118**	< 200	**15400 J**	**310 J**	**364**	96.0	2830
		2002 02 (Summer)	0.20 J	< 5.0	**630**	< 2.0	< 5.0	< 10.0	1.2 J	< 10.0	< 3.0	**2200**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	6.8 J	< 20.0	5.1 J	**16000**	**360**	**420**	110	3300
	M07A-02	2005 02 (Summer)	0.89 J	3.0 J	110 J	0.056 J	< 5.0	**15.0**	4.2	3.9 J	< 3.0	**3000 J**	< 0.20	0.61 J	8.0 J	**45.0**	< 5.0	0.35 J	12.0	**72.0**	< 100	6100	100 J	23.0 J	6.0 J	62.0 J
		2004 04 (Winter)	0.47 J	3.3 J	200	< 2.0	< 5.0	**17.0**	3.6	< 10.0	< 3.0	< 10.0	< 0.20	1.3 J	1.9 J	< 5.0	< 5.0	< 5.0	17.0	8.8 J	< 100	< 100	**450**	**1300**	**350**	< 100
		2004 02 (Summer)	0.42 J	< 15.0	**570**	0.38 J	< 5.0	6.5 J	4.6	< 10.0	0.34 J	450	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	9.4 J	28.0	< 50.0	4400	**590**	**1300**	**290**	**9600**
		2003 04 (Winter)	< 5.0 UJ	< 50.0	323	< 4.0	< 5.0	6.1 J	< 10.0	< 10.0	< 10.0 UJ	161	-	< 50.0	< 20.0	< 20.0	< 10.0	-	18.2 J	< 20.0	< 200	36.9 J	**395**	**1160**	**398**	**9100**
		2003 02 (Summer)	< 50.0	< 50.0	557	< 4.0	< 5.0	**12.5**	2.4 J	< 10.0	< 10.0	313	< 0.40	< 50.0	2.5 J	< 20.0	< 10.0	< 100	15.5 J	< 20.0	< 200	719	**680**	**1660**	**427**	**10900 J**
		2002 04 (Winter)	0.31 J	-	**610**	< 2.0	< 50.0 UJ	9.2 J	4.2 J	2.9 J	0.26 J	520	< 0.20	< 200	9.8 J	< 5.0	< 50.0	< 2.0	13.0 J	< 20.0	< 100	2200	**520**	**1100**	**260**	**9400**
		2002 02 (Summer)	0.39 J	< 5.0	510	< 2.0	< 5.0	**18.0**	4.2 J	7.8 J	< 3.0	760	< 0.20	< 20.0	9.6 J	< 5.0	< 5.0	< 2.0	14.0	< 20.0	< 100	**13000**	**500**	**1100**	**210**	**8100**
	M07A-03	2007 01 (Spring)	< 0.21	2.3 J	380	< 2.0	< 5.0	9.2 J	3.1	< 0.28	< 3.0	370	< 0.20	< 0.42	< 0.82	0.87 J	< 5.0	< 5.0	16.0	< 20.0	< 23.0	79.0 J	**400**	**1100**	**270**	**7900**
		2006 03 (Fall)	< 1.0	2.0 J	440	< 2.0	< 5.0	**17.0**	2.9	1.4 J	< 3.0	370	< 0.20	1.1 J	11.0 J	0.75 J	1.7 J	< 5.0	12.0	**52.0 J**	< 68.0	160	**340 J**	**1000 J**	**260 J**	**8400 J**
		2006 01 (Spring)	0.35 J	1.8 J	420	0.45 J	0.76 J	8.7 J	2.6	< 10.0	< 3.0	440	0.10 J	0.28 J	4.3 J	< 5.0	< 5.0	< 5.0	10.0	< 20.0	< 100	4300	**320**	**960**	**220**	**7200**
		2005 02 (Summer)	4.0	5.8	86.0	< 2.0	< 5.0	1.4 J	0.29 J	< 10.0	< 3.0	150	0.17 J	4.5 J	1.4 J	0.56 J	< 5.0	< 5.0	1.4 J	6.9 J	< 100	420	31.0	15.0	18.0	140
		2004 04 (Winter)	< 1.0	< 1000	400	< 400	< 1000	< 2000	4.2	< 2000	< 600	320 J	< 0.20	< 4000	< 4000	< 1000	< 1000	< 1000	< 2000	< 4000	< 20000 UJ	< 20000	**340 J**	**940**	**280**	**7200**
		2004 02 (Summer)	2.5	< 8.4	420	0.54 J	< 5.0	5.1 J	4.3	< 10.0	0.13 J	870	< 0.20	< 20.0	3.0 J	< 5.0	1.4 J	< 1.0	11.0	25.0	< 50.0	**12000**	**390**	**1200**	**280**	**9300**
		2003 04 (Winter)	< 5.0	< 50.0	344	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	300	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	16.1 J	< 20.0	< 200	45.9 J	**314**	**999**	**383**	**9150**
		2003 02 (Summer)	< 50.0	< 50.0	413	< 4.0	< 5.0	8.4 J	3.7 J	< 10.0	< 10.0	448	< 0.40 UJ	< 50.0	2.8 J	< 20.0	< 10.0	< 100	12.8 J	< 20.0	< 200	623	**415**	**1220**	**302 J**	**8300**
		2002 04 (Winter)	0.46 J	< 5.0	410	0.024 J	< 5.0	8.7 J	4.0 J	9.1 J	< 3.0	560	< 0.20	< 20.0	11.0 J	< 5.0	< 5.0	< 2.0	15.0	< 20.0	< 100	**12000**	**330**	**990**	**270**	**7900**
		2002 02 (Summer)	0.22 J	< 5.0	390 J	< 2.0	< 5.0	**21.0**	3.8 J	3.9 J	0.038 J	470	< 0.20	< 20.0	5.1 J	< 5.0	1.6 J	< 2.0	22.0	< 20.0	7.0 J	4100	**400**	**1200**	**260**	**9200**
	M07A-05	2005 02 (Summer)	1.1	< 5.0	420	< 2.0	< 5.0	**14.0**	2.6	< 10.0	< 3.0	63.0	< 0.20	2.3 J	2.3 J	< 5.0	< 5.0	< 5.0	18.0	10.0 J	< 100	< 100	**420**	**1300**	**320**	**10000**
		2004 04 (Winter)	0.41 J	< 1000	300	< 400	< 1000	< 2000	3.2	< 2000	< 600	< 2000	< 0.20	< 4000	< 4000	< 1000	< 1000	< 1000	< 2000	< 4000	< 20000 UJ	< 20000	**490 J**	**1300**	**400**	**9700**
		2004 02 (Summer)	0.73 J	< 1.0	**590**	< 1.0	< 1.0	**14.0**	3.4	7.6	0.46 J	280	0.13 J	< 20.0	9.5	< 5.0	< 1.0	0.32 J	13.0	< 1.0	2.5 J	930 J	**400**	**1200**	**280**	**10000**
		2003 04 (Winter)	< 25.0 UJ	< 50.0	277	< 4.0	< 5.0	7.7 J	< 10.0	< 10.0	< 10.0 UJ	13.4	**0.24 J**	< 50.0	< 20.0	5.6 J	< 10.0	-	22.3 J	< 20.0	< 200	< 100	**442**	**1850**	**586**	**14400**
		2003 02 (Summer)	< 50.0	19.8 J	394	< 4.0	1.0 J	4.1 J	2.3 J	< 10.0	< 10.0	424 J	< 0.40	< 50.0	11.9 J	< 20.0	< 10.0	< 100	7.7 J	< 20.0	< 200	**19000**	**392 J**	**1270 J**	**269 J**	**8660 J**
		2002 04 (Winter)	0.42 J	-	**730**	< 2.0	< 50.0 UJ	10.0	3.3 J	4.4 J	0.18 J	170	< 0.20	< 200	17.0 J	< 5.0	< 50.0	< 2.0	14.0 J	< 20.0	48.0 J	1700	**470**	**1500**	**310**	**13000**
		2002 02 (Summer)	0.45 J	< 5.0	280 J	< 2.0	< 5.0	**21.0**	3.3 J	5.2 J	0.11 J	51.0	< 0.20	0.58 J	6.6 J	< 5.0	0.29 J	0.27 J	**31.0**	< 20.0	7.2 J	1200	**450**	**1400**	**310**	**12000**
	M07A-07	2005 02 (Summer)	0.51 J	20.0	**950**	< 2.0	1.4 J	4.7 J	3.9	< 10.0	< 3.0	1100	< 0.20	< 20.0	11.0 J	< 5.0	< 5.0	< 5.0	0.90 J	15.0 J	< 100	**28000**	**240**	**880**	**220**	**6800**
		2004 04 (Winter)	0.56 J	**24.0**	**1100**	< 2.0	1.3 J	3.3 J	4.0	< 10.0	< 3.0	920	< 0.20	< 20.0	7.6 J	< 5.0	< 5.0	< 5.0	3.6 J	12.0 J	< 100	**32000**	**230**	**850**	**200**	**7500**

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.2-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M07A-07	2004 02 (Summer)	2.6	31.0	1100	< 2.0	< 5.0	3.9 J	4.0	< 10.0	0.56 J	1100	< 0.20	< 20.0	8.5 J	< 5.0	2.3 J	0.80 J	5.8 J	17.0 J	< 50.0	28000	58.0	200	250	1800
		2003 02 (Summer)	< 50.0	23.8 J	1360	< 4.0	2.2 J	2.2 J	3.4 J	1.6 J	< 10.0	854	< 0.40	< 50.0	8.8 J	< 20.0	< 10.0	< 100	3.3 J	< 20.0	< 200	42900	259 J	991	209	7560 J
		2002 04 (Winter)	0.38 J	-	< 830	< 2.0	< 100 UJ	3.1 J	3.9 J	6.7 J	0.87 J	950	< 0.20	< 400	12.0 J	< 5.0	< 100	< 2.0	1.0 J	< 20.0	85.0 J	28000 J	250	870	200	7600
		2002 02 (Summer)	0.52 J	< 5.0	630	< 2.0	< 5.0	8.9 J	3.8 J	4.0 J	1.7 J	860	< 0.20	< 20.0	9.2 J	< 5.0	< 5.0	< 2.0	3.0 J	< 20.0	5.3 J	1800	210	780	170	6600
	M07A-08	2005 02 (Summer)	0.54 J	< 5.0	330	< 2.0	0.71 J	1.5 J	1.5	< 10.0	< 3.0	4900	< 0.20	1.5 J	3.2 J	< 5.0	< 5.0	4.7 J	0.97 J	19.0 J	94.0 J	16000	650	740	120	3900
		2004 04 (Winter)	0.22 J	< 5.0	140	< 2.0	< 5.0	< 10.0	0.72 J	< 10.0	< 3.0	1500	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	2100	200	240	58.0	1900
		2004 02 (Summer)	0.23 J	5.4	89.0	< 1.0	< 5.0	0.77 J	0.35 J	5.5	0.21 J	630	0.061 J	3.1 J	2.8	< 5.0	< 1.0	< 5.0	2.5 J	16.0	2.0 J	700	86.0	93.0	40.0	1300
		2003 04 (Winter)	< 5.0 UJ	< 50.0	138	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	1440	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	2160	158	166	50.7	1430
		2003 02 (Summer)	< 50.0	< 50.0	376	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	2520	< 0.40 UJ	< 50.0	2.8 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	4700	267	299	64.7 J	2020
		2002 04 (Winter)	< 50.0	-	< 240	< 2.0	< 50.0 UJ	0.84 J	2.1 J	3.2 J	0.11 J	5400	< 0.20	< 200	7.0 J	< 5.0	< 50.0	< 2.0	< 10.0 UJ	7.0 J	< 100	7800	560	590	120	3700
		2002 02 (Summer)	< 50.0	< 5.0	330	< 2.0	< 5.0	1.4 J	0.39 J	1.5 J	< 3.0	1900	< 0.20	< 20.0	3.3 J	< 5.0	< 5.0	< 2.0	1.6 J	< 20.0	12.0 J	7100	190	210	55.0	1600
	M07A-09	2005 02 (Summer)	8.0	59.0	170	< 2.0	< 5.0	< 10.0	2.4	< 10.0	< 3.0	1300	< 0.20	15.0 J	4.4 J	< 5.0	< 5.0	< 5.0	15.0	31.0	95.0 J	7600	340	690	200	5100
		2004 04 (Winter)	0.71 J	< 5.0	130	< 2.0	< 5.0	< 10.0	0.93 J	3.6 J	< 3.0	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	1400	280	390	87.0	2800
		2004 02 (Summer)	0.92 J	< 5.0	48.0	< 1.0	< 5.0	0.76 J	0.58 J	14.0	2.0	260	0.063 J	3.3 J	5.2	< 5.0	< 1.0	< 5.0	2.5 J	15.0	4.7 J	1700	81.0	130	45.0	1400
		2003 04 (Winter)	< 5.0 UJ	< 50.0	65.2 J	< 4.0	< 5.0	< 10.0	< 10.0	10.3	< 10.0 UJ	250	-	< 50.0	< 20.0	< 20.0	< 10.0	-	6.3 J	< 20.0	< 200	2020	136	180	50.0	1500
		2003 02 (Summer)	14.9 J	41.2 J	353	< 4.0	1.1 J	5.5 J	3.7 J	< 10.0	< 10.0	1010 J	< 0.40	5.2 J	< 20.0	< 20.0	< 10.0	< 100	29.5 J	< 20.0	< 200	21400	503 J	1400 J	360 J	8960 J
		2002 04 (Winter)	0.51 J	-	< 250	< 2.0	< 130 UJ	2.5 J	1.3 J	4.3 J	0.30 J	490	< 0.20	< 500 UJ	6.4 J	< 5.0	< 130	< 2.0	1.5 J	< 20.0	26.0 J	4900	300	480	120	3600
		2002 02 (Summer)	1.6 J	< 5.0	360	< 2.0	0.21 J	19.0	3.3 J	14.0	4.5	1100	< 0.20	< 20.0	13.0 J	< 5.0	1.8 J	< 2.0	19.0	< 20.0	1300	19000	360	970	270	7600
	M07A-10	2007 01 (Spring)	< 0.16	8.6	170	< 2.0	< 0.062	< 2.1	0.33 J	< 10.0	< 2.1	770	< 0.20	< 0.90	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	7.8 J	< 23.0	6300	100	140 J	48.0	1200
		2006 03 (Fall)	< 1.0	15.0	370	< 2.0	< 5.0	2.4 J	1.3	2.6 J	< 3.0	1200	< 0.20	1.6 J	3.0 J	0.36 J	1.8 J	< 5.0	6.2 J	190 J	< 100	8600	150	160	61.0	1700 J
		2006 01 (Spring)	< 1.0	8.4	340	0.43 J	0.31 J	3.2 J	0.45 J	2.2 J	< 3.0	1700	0.099 J	0.76 J	1.4 J	< 5.0	< 5.0	< 5.0	6.4 J	3.6 J	< 100	12000	240	310	79.0	2200
SWBZ	D07A-01	2005 02 (Summer)	0.38 J	< 5.0	250	< 2.0	< 5.0	< 10.0	0.55 J	< 10.0	< 3.0	6700	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	5.7	< 10.0	10.0 J	< 100	7500	790	940	43.0	1700
		2004 04 (Winter)	0.14 J	< 5.0	290	< 2.0	< 5.0	< 10.0	1.2	< 10.0	< 3.0	7800	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	4.3 J	< 10.0	< 20.0	< 100	9100	910	1100	46.0	3500
		2004 02 (Summer)	0.21 J	< 5.0	280	< 2.0	< 5.0	0.78 J	1.1	< 10.0	0.097 J	8600	< 0.20	< 20.0	0.84 J	< 5.0	< 5.0	< 1.0	< 10.0	9.0 J	< 50.0	9100	960	1100	46.0	3900
		2003 04 (Winter)	< 5.0	< 50.0	382	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	6860 J	< 0.40	< 50.0	< 20.0	5.9 J	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	8170	750	957	63.4	3740
		2003 02 (Summer)	< 50.0	< 50.0	557	< 4.0	< 5.0	< 10.0	< 10.0	1.7 J	< 10.0	8960	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	10700	1050	1240	96.8	3860 J
		2002 04 (Winter)	< 50.0	-	610	< 2.0	< 50.0 UJ	1.2 J	1.5 J	3.0 J	0.17 J	7800	< 0.20	< 200	8.6 J	< 5.0	< 50.0	< 2.0	< 10.0 UJ	< 20.0	< 100	11000	840	1000	62.0	3700
		2002 02 (Summer)	0.093 J	< 5.0	880	< 2.0	< 5.0	14.0 J	1.4 J	4.2 J	< 3.0 UJ	8000	< 0.20	1.2 J	10.0 J	-	< 5.0	< 2.0	3.4 J	< 20.0	17.0 J	9300	940	1100	63.0	4200
	D07A-02	2005 02 (Summer)	0.55 J	19.0	1600	< 2.0	< 5.0	1.5 J	8.6	< 10.0	< 3.0	6800	0.11 J	< 20.0	17.0 J	13.0	< 5.0	< 5.0	0.40 J	110	< 100	14000	640	980	31.0	3400
		2004 04 (Winter)	< 1.0	< 500	2000	< 200	< 500	< 1000	9.0	< 1000	< 300	7400	< 0.20	< 2000	< 2000	< 500	< 500	< 500	< 1000	< 2000	< 10000 UJ	17000	750 J	1100	38.0	4000
		2004 02 (Summer)	0.15 J	< 1.0	1900	< 1.0	< 5.0	1.0	9.2	6.9	0.26 J	7100	0.053 J	< 20.0	19.0	< 1.0	< 5.0	< 1.0	0.85 J	< 1.0	< 50.0	16000	770	1200	40.0	4500

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.2-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
SWMU	D07A-02	2003 04 (Winter)	< 5.0	**22.7 J**	**1620**	< 4.0	< 5.0	< 10.0	7.5 J	< 10.0	< 10.0	**6010 J**	< 0.40	< 50.0	**16.4 J**	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**14000**	**627**	**1050**	43.7	**4640**
		2003 02 (Summer)	**18.1 J**	**29.0 J**	**2100**	< 4.0	0.89 J	< 10.0	7.1 J	1.4 J	< 10.0	**7440**	< 0.40	< 50.0	**9.3 J**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**17500**	**839**	**1290**	63.1	449 J
		2002 04 (Winter)	< 50.0	-	**1900**	< 2.0	< 50.0 UJ	0.85 J	7.5 J	**3.3 J**	0.068 J	**7000**	< 0.20	< 200 UJ	**17.0 J**	< 5.0	< 50.0	< 2.0	< 10.0 UJ	< 20.0	< 100	**17000**	**710**	**1100**	37.0	**4300**
		2002 02 (Summer)	< 50.0	**29.0**	**1600**	< 2.0	< 5.0	**22.0**	6.6 J	**8.3 J**	< 3.0	**6600**	< 0.20	< 20.0	< 30.0	**48.0 J**	< 5.0	< 2.0	8.0 J	< 20.0	< 100	**14000**	**720**	**1100**	33.0	**4300**
	D07A-03	2005 02 (Summer)	0.82 J	7.9	130	< 2.0	0.26 J	1.2 J	2.6	**5.7 J**	< 3.0	**7500 J**	< 0.20	0.60 J	6.0 J	**12.0**	< 5.0	0.72 J	1.9 J	**73.0**	< 100	**8600**	**650 J**	**1200 J**	33.0 J	**4500 J**
		2004 04 (Winter)	0.23 J	**13.0**	100	< 2.0	0.55 J	2.6 J	2.4	< 10.0	< 3.0	**6600**	< 0.20	2.6 J	3.6 J	< 5.0	< 5.0	**6.3**	3.1 J	< 20.0	< 100	3200	**680**	**1100**	35.0	**4600**
		2004 02 (Summer)	0.23 J	< 16.0	110	< 2.0	< 5.0	0.80 J	3.1	< 10.0	0.66 J	**8000**	< 0.20	< 20.0	4.2 J	< 5.0	< 5.0	< 1.0	< 10.0	25.0	< 50.0	3800	**800**	**1300**	37.0	**5600**
		2003 04 (Winter)	< 5.0 UJ	< 50.0	98.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**6980**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	4060	**758**	**1310**	42.7	**5240**
		2003 02 (Summer)	< 50.0	7.6 J	130	< 4.0	< 5.0	< 10.0	< 10.0	**3.5 J**	< 10.0	**8820**	< 0.40	< 50.0	6.5 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	5210	**764**	**1290**	56.7	**4550 J**
		2002 04 (Winter)	< 50.0	-	< 250	< 2.0	< 130 UJ	0.91 J	3.1 J	2.1 J	0.088 J	**7400**	< 0.20	< 500	**10.0 J**	< 5.0	< 130	< 2.0	1.5 J	< 20.0	< 100	5200	**670**	**1200**	30.0	**4800**
		2002 02 (Summer)	0.089 J	< 5.0	120	< 2.0	0.10 J	8.6 J	4.6 J	**5.9 J**	< 3.0 UJ	**7800**	< 0.20	0.86 J	**13.0 J**	-	< 5.0	< 2.0 UJ	3.4 J	< 20.0	4.4 J	**8500**	**720**	**1200**	32.0	**4600**

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.2-6
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 7
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M07A-01	09/13/05	6.04	0.50	-184.0
		03/08/05	6.10	1.78	-204.0
		12/03/04	6.93	0.18	-55.0
		07/01/04	6.42	0.14	-91.0
		03/10/04	6.69	0.32	-195.0
		07/15/02	6.66	-0.61	-136.0
First	M07A-02	09/09/05	6.63	0.36	-309.0
		03/03/05	7.00	***10.92***	-358.0
		11/29/04	6.60	0.07	-240.0
		06/30/04	6.62	0.19	-319.0
		12/11/03	6.56	0.15	-276.0
		06/27/03	6.74	0.14	-193.0
		12/18/02	6.08	***29.69***	-244.0
		06/21/02	6.77	1.00	-127.0
First	M07A-03	03/27/07	7.02	0.98	365.7
		10/10/06	6.78	0.01	-269.1
		05/04/06	6.58	0.43	-241.0
		09/09/05	6.60	0.93	-260.0
		03/03/05	6.98	0.23	-341.0
		11/30/04	6.78	0.13	-210.0
		06/30/04	6.55	0.19	-345.0
		03/05/04	6.66	0.41	-168.0
		12/10/03	6.52	0.17	-163.0
		09/23/03	6.62	0.24	-220.0
		06/30/03	6.63	0.17	-224.0
		04/10/03	6.68	0.06	-200.0
		12/24/02	NM	NM	0.0
		09/18/02	6.53	0.60	-131.3
		06/24/02	6.78	1.30	-143.0
First	M07A-05	09/13/05	6.15	0.00	-341.0
		03/07/05	6.66	0.24	-359.0
		11/30/04	6.72	0.11	-298.0
		07/02/04	6.51	0.22	-230.0
		12/11/03	6.53	0.18	-264.0
		06/30/03	6.88	0.12	-327.0
		12/18/02	***10.82***	1.90	-334.0
		06/24/02	6.83	0.70	-165.0
First	M07A-07	09/13/05	6.28	0.44	-193.0
		03/08/05	6.76	0.21	-199.0
		11/30/04	6.89	0.15	-103.0
		06/30/04	6.59	0.19	-344.0
		03/05/04	6.65	0.24	-108.0
		09/23/03	6.54	0.40	-294.0
		06/27/03	6.82	0.21	-124.0
		04/09/03	6.71	0.20	-52.0
		12/18/02	6.02	3.36	-176.7
		09/12/02	6.74	0.50	-156.2

Table 3.2-6
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 7
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M07A-07	06/21/02	6.78	1.60	-127.0
First	M07A-08	09/12/05	6.24	0.35	-261.0
		03/08/05	7.28	3.95	-342.0
		12/01/04	6.89	0.16	-192.0
		07/01/04	6.79	0.30	-190.0
		03/05/04	7.06	0.15	-138.0
		12/11/03	6.63	0.35	28.0
		09/23/03	6.62	0.13	-177.0
		06/30/03	6.86	0.22	-251.0
		04/09/03	6.90	2.50	-113.0
		12/18/02	6.00	***9.37***	-209.0
		09/11/02	NM	NM	NM
		06/21/02	6.57	***15.51***	-111.8
First	M07A-09	09/12/05	6.55	0.50	-201.0
		03/03/05	7.28	0.00	-154.0
		12/01/04	6.73	0.19	163.0
		07/01/04	6.61	0.14	-152.0
		03/05/04	7.02	0.22	-115.0
		12/11/03	6.75	0.30	75.0
		09/23/03	***9.71***	0.36	-109.0
		06/30/03	6.96	0.61	***-1190.6***
		04/10/03	6.89	0.14	-120.0
		12/18/02	6.12	5.49	-151.8
		09/11/02	NM	NM	NM
		06/21/02	6.69	1.50	-131.2
First	M07A-10	03/27/07	10.44	0.47	264.2
		10/10/06	6.56	0.06	321.2
		05/04/06	6.60	1.99	-312.0
		09/12/05	6.28	0.19	-252.0
		03/07/05	6.17	0.85	-255.0
		11/30/04	6.98	0.09	-81.0
		07/01/04	6.51	0.21	-6.0
First	M07A-11	09/12/05	6.36	0.46	-172.0
		03/03/05	7.26	3.03	-152.0
		12/01/04	6.70	0.15	39.0
		07/01/04	6.47	0.08	-11.0
Second	D07A-01	09/13/05	6.06	0.34	-126.0
		03/03/05	7.04	0.04	-177.0
		12/01/04	6.58	0.14	146.0
		06/30/04	6.57	0.96	-96.0
		12/09/03	6.75	2.27	21.0
		06/27/03	6.36	0.16	-293.0
		12/18/02	***9.33***	0.00	-204.0
		07/03/02	***5.99***	1.60	-57.0
Second	D07A-02	09/09/05	6.45	0.45	-118.0
		03/03/05	6.83	0.60	-100.0
		11/30/04	6.60	0.16	22.0

Table 3.2-6
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 7
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D07A-02	06/29/04	6.38	0.15	-288.0
		12/09/03	6.53	0.29	11.0
		06/27/03	6.44	0.14	-301.0
		12/18/02	***8.62***	0.00	***-1290.0***
		07/08/02	6.28	-0.01	-84.0
Second	D07A-03	09/09/05	6.58	0.44	-94.0
		03/03/05	7.16	3.06	-195.0
		11/29/04	6.64	0.11	62.0
		06/30/04	6.73	0.15	-345.0
		12/11/03	6.66	0.20	59.0
		06/27/03	6.62	0.11	-284.0
		12/18/02	6.32	3.26	-62.1
		07/03/02	***5.80***	1.30	-58.0

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 3.2-7

Groundwater Sample Analytical Results Natural Attenuation Parameters at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	< 0.0050	< 0.0050	7.5	< 0.50	< 1.0	5900	170	2100	2100	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	15.0	< 0.50	< 0.50	4700	94.0	1400	1400	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	8.4	< 0.50	< 0.50	5400	77.0	1900	1900	< 1.0	< 1.0	0.050
		2002 02 (Summer)	< 0.010	< 0.010	4.8	< 0.50	< 0.50	5600	290	2000	2000	< 1.0	< 1.0	0.12
	M07A-02	2005 02 (Summer)	< 0.0050	< 0.0050	8.3	< 1.0	< 2.5	15000	< 10.0	2300	2300	< 1.0	< 1.0	11.0 J
		2004 04 (Winter)	< 0.0050	< 0.0050	12.0	< 1.3	< 2.5	20000	4.0 J	4300	4300	< 1.0	< 1.0	46.0
		2004 02 (Summer)	< 0.010 J	< 0.010 J	3.9 J	< 1.3	< 2.5	16000	< 13.0	3300	3300	< 1.0	< 1.0	6.9
		2003 04 (Winter)	< 0.0030	< 0.0030	2.3	15.1 J	-	15900	25.5	3010	3010	< 5.0	-	50.2
		2003 02 (Summer)	< 0.0030	< 0.0030	4.3	< 1.0	-	32800	3.2 J	3300	-	-	-	25.6
		2002 04 (Winter)	< 0.010	< 0.010	4.0	< 1.3	< 2.5	16000	46.0	3200	3200	< 1.0	< 1.0	15.0
		2002 02 (Summer)	< 0.010	< 0.010	8.3	< 0.50	< 1.0	15000	85.0	3200	3200	< 1.0	< 1.0	< 0.040
	M07A-03	2007 01 (Spring)	< 0.0050	< 0.0050	12.0	< 1.0	< 2.5	16000	< 10.0	2500	2500	< 10.0	< 10.0	1.4
		2006 01 (Spring)	< 0.025	< 0.025	10.0	< 1.0	< 2.5	13000	6.8 J	2100	2100	< 1.0	< 1.0	1.2
		2005 02 (Summer)	< 0.0050	< 0.0050	5.7	< 1.0	< 2.5	15000	2.0 J	2200	2200	< 1.0	< 1.0	8.0
		2004 04 (Winter)	< 0.0050	< 0.0050	11.0 J	< 1.3	< 2.5	17000	2.1 J	1500	1500	< 1.0	< 1.0	9.6
		2004 02 (Summer)	< 0.010	< 0.010	7.4	< 1.3	< 2.5	15000	14.0	2300	2300	< 1.0	< 1.0	0.98

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-7

Groundwater Sample Analytical Results Natural Attenuation Parameters at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-03	2003 04 (Winter)	< 0.0030	< 0.0030	3.4	< 1.0	< 1.0	15300	3.8 J	2750	2750	< 5.0	-	14.9
		2003 02 (Summer)	< 0.0030	< 0.0030	4.0	< 1.0	< 1.0	17400	4.5 J	2340	-	-	-	12.2
		2002 04 (Winter)	< 0.010	< 0.010	11.0	< 2.5	< 2.5	16000	64.0	2400	2400	< 1.0	< 1.0	1.8
		2002 02 (Summer)	< 0.010	< 0.010	6.7	< 0.50	< 0.50	15000	83.0	2200	2200	< 1.0	< 1.0	0.77
	M07A-05	2005 02 (Summer)	< 0.0050	< 0.0050	7.3	< 1.3	< 2.5	22000	19.0	4000	4000	< 1.0	< 1.0	44.0
		2004 04 (Winter)	< 0.0050	< 0.0050	12.0 J	< 1.3	< 2.5	23000	5.6 J	4100	4100	< 1.0	< 1.0	39.0
		2004 02 (Summer)	< 0.010	< 0.010	11.0	< 1.3	< 2.5	17000	33.0	2900	2900	< 1.0	< 1.0	15.0
		2003 04 (Winter)	< 0.0030	< 0.0030	2.2	22.6 J	-	23800	103	4200	4200	< 5.0	-	109
		2003 02 (Summer)	< 0.0030	< 0.0030	2.9	< 1.0	< 50.0 UJ	19600	-	2500	-	-	-	6.4
		2002 04 (Winter)	< 0.010	< 0.010	8.8	< 1.3	< 2.5	19000	70.0	3200	3200	< 1.0	< 1.0	7.7
		2002 02 (Summer)	< 0.010	< 0.010	5.9	< 0.50	< 0.50	17000	83.0	2500	2500	< 1.0	< 1.0	2.9
	M07A-07	2005 02 (Summer)	< 0.0050	< 0.0050	8.6	< 1.0	< 2.5	13000	< 10.0	2100	2100	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	12.0 J	< 1.0	< 1.3	15000	< 10.0	2100	2100	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	6.4	< 1.3	< 2.5	15000	< 13.0	2200	2200	< 1.0	< 1.0	< 0.040
		2003 02 (Summer)	< 0.0030	< 0.0030	2.5	< 1.0	< 500 UJ	26600	< 5.0	2090	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	7.6	< 1.3	< 1.3	13000	< 13.0	2000	2000	< 1.0	< 1.0	0.050

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-7

Groundwater Sample Analytical Results Natural Attenuation Parameters at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-07	2002 02 (Summer)	< 0.010	< 0.010	11.0	< 0.50	< 0.50	13000	5.8	2200	2200	< 1.0	< 1.0	< 0.040
	M07A-08	2005 02 (Summer)	< 0.0050	< 0.0050	2.6	< 1.0	< 1.3	10000	870	650	650	< 1.0	< 1.0	2.4
		2004 04 (Winter)	< 0.0050	< 0.0050	3.3	< 0.25	< 0.50	3600	310	460	460	< 1.0	< 1.0	1.5 J
		2004 02 (Summer)	< 0.010	< 0.010	3.7	< 0.10	< 0.25	1700	130	430	430	< 1.0	< 1.0	1.7
		2003 04 (Winter)	< 0.0030	< 0.0030	0.37	2.3 J	-	1950	233	326	326	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.82	< 1.0	< 1.0	4150	173	670	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	1.4	< 0.50	< 0.50	6000	760	290	290	< 1.0	< 1.0	0.070
		2002 02 (Summer)	< 0.010	< 0.010	1.9	< 0.25	< 0.25	3100	140	610	610	< 1.0	< 1.0	< 0.040
	M07A-09	2005 02 (Summer)	< 0.0050	< 0.0050	7.2	< 1.0	< 1.3	10000	690	1400	1400	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	7.3	0.25 J	< 0.50	5300	320	650	650	< 1.0	< 1.0	< 0.040 UJ
		2004 02 (Summer)	< 0.010	< 0.010	6.6	< 0.25	< 0.25	2100	150	480	480	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	1.7	1.2 J	-	2100	281	361	361	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	2.4	< 1.0	< 50.0 UJ	14200	67.1	2800	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	7.3	< 0.50	< 0.50	5200	530	540	540	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	11.0	< 0.50	< 0.50	14000	22.0	3100	3100	< 1.0	< 1.0	< 0.040
	M07A-10	2007 01 (Spring)	< 0.0050	< 0.0050	11.0	< 0.15	< 0.50	2700	30.0	650	650	< 10.0	< 10.0	2.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-7

Groundwater Sample Analytical Results Natural Attenuation Parameters at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-10	2006 01 (Spring)	< 0.025	< 0.025	15.0	< 0.25	< 0.50	3800	29.0	880	880	< 1.0	< 1.0	4.5
SWBZ	D07A-01	2005 02 (Summer)	< 0.0050	< 0.0050	0.21	< 0.50	< 1.0	7800	830	670	670	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.19 J	< 1.0	< 1.0	9600	960	620	620	< 1.0	< 1.0	< 0.040 UJ
		2004 02 (Summer)	< 0.010	< 0.010	0.086	< 0.50	< 1.3	8800	930	610	610	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.14	< 1.0	-	8660	996	831	831	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.31	< 1.0	-	9370	880	749	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.44	< 0.50	< 1.3	8900	740	890	890	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	2.4	< 0.50	< 0.50	9100	620	900	900	< 1.0	< 1.0	< 0.040
	D07A-02	2005 02 (Summer)	< 0.0050	< 0.0050	0.0040 J	< 1.0	< 1.3	10000	150	1200	1200	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	3.0 J	< 1.0	< 1.3	11000	160	1200	1200	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	11000	150	1200	1200	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0037	8.0	-	11200	166	811	811	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0020 J	< 1.0	-	17700	141	1200	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 0.50	< 1.3	11000	150	1200	1200	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.017	< 0.50	< 0.50	11000	160	1200	1200	< 1.0	< 1.0	< 0.040
	D07A-03	2005 02 (Summer)	< 0.0050	< 0.0050	0.010	< 1.0	< 1.3	11000	810	880	880	< 1.0	< 1.0	< 0.040 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-7

Groundwater Sample Analytical Results Natural Attenuation Parameters at Operable Unit 1 - IR Site 7

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D07A-03	2004 04 (Winter)	< 0.0050	< 0.0050	0.013	< 1.0	< 1.3	11000	870	850	850	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.010	< 1.3	< 1.3	11000	830	800	800	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030 UJ	< 0.0030 UJ	0.0079	9.7 J	-	9610	872	850	850	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0060	< 1.0	-	11400	752	749	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.011	< 1.0	< 1.0	11000	790	900	900	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	12000	760	890	890	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.2-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 7

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 7 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	2	1.3 J	M07A-10	27 Mar 2007	12.0 J	M07A-08	2004 01 (Spring)
TPH-Motor Oil (UG/L)	1	2	170 J	M07A-03	10 Oct 2006	1900	M07A-07	2004 04 (Winter)
1,1-Dichloroethane (UG/L)	1	2	0.090 J	M07A-10	27 Mar 2007	0.30 J	M07A-10	2004 02 (Summer)
Carbon Disulfide (UG/L)	1	2	0.50	M07A-03	10 Oct 2006	13.0	M07A-05	2002 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	1	2	1.3	M07A-10	27 Mar 2007	190	M07A-10	2004 04 (Winter)
Chlorobenzene (UG/L)	2	2	0.70 J	M07A-10	10 Oct 2006	1.0	M07A-10	2004 02 (Summer)
1,2-Dichlorobenzene (UG/L)	1	2	0.50	M07A-10	27 Mar 2007	1.9	M07A-10	2004 02 (Summer)
1,4-Dichlorobenzene (UG/L)	2	2	0.50 J	M07A-10	10 Oct 2006	0.30 J	M07A-10	2005 02 (Summer)
Tert-butyl alcohol (UG/L)	1	2	18.0	M07A-03	10 Oct 2006	48.0	M07A-10	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.2-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 7

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 7 (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	1	2	0.46 J	M07A-10	10 Oct 2006	1.0	M07A-07	2005 02 (Summer)
Anthracene (UG/L)	2	2	0.040 J	M07A-10	27 Mar 2007	0.65 J	M07A-07	2004 04 (Winter)
Benzo(a)anthracene (UG/L)	1	2	0.030 J	M07A-10	10 Oct 2006	0.22	M07A-07	2005 02 (Summer)
Benzo(b)fluoranthene (UG/L)	1	2	0.020 J	M07A-10	10 Oct 2006	0.12 J	M07A-07	2005 02 (Summer)
Benzo(k)fluoranthene (UG/L)	2	2	0.0090 J	M07A-10	27 Mar 2007	0.050 J	M07A-07	2005 02 (Summer)
Fluoranthene (UG/L)	2	2	0.45	M07A-10	10 Oct 2006	4.8	M07A-07	2005 02 (Summer)
Fluorene (UG/L)	2	2	0.070 J	M07A-03	27 Mar 2007	7.8	M07A-03	2006 01 (Spring)
Phenanthrene (UG/L)	2	2	0.020 J	M07A-10	10 Oct 2006	1.5	M07A-07	2005 02 (Summer)
Pyrene (UG/L)	2	2	0.53	M07A-10	10 Oct 2006	4.1	M07A-07	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.2-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 7

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current *Sampling Year*	Well Count with Detected *Concentrations*	Well Count Analyzed for *Parameter*	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 7 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	2	2	12.0	M07A-03	27 Mar 2007	15.0	M07A-10	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.2-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 7

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 7 (First Water-Bearing Zone)								
Dissolved Metals								
Arsenic (UG/L)	2	2	15.0	M07A-10	10 Oct 2006	59.0	M07A-09	2005 02 (Summer)
Barium (UG/L)	2	2	440	M07A-03	10 Oct 2006	1360	M07A-07	2003 02 (Summer)
Chromium (UG/L)	2	2	17.0	M07A-03	10 Oct 2006	21.0	M07A-03	2002 02 (Summer)
Cobalt (UG/L)	2	2	3.1	M07A-03	27 Mar 2007	4.6	M07A-02	2004 02 (Summer)
Copper (UG/L)	2	2	2.6 J	M07A-10	10 Oct 2006	14.0	M07A-09	2004 02 (Summer)
Manganese (UG/L)	2	2	1200	M07A-10	10 Oct 2006	5400	M07A-08	2002 04 (Winter)
Molybdenum (UG/L)	2	2	1.6 J	M07A-10	10 Oct 2006	15.0 J	M07A-09	2005 02 (Summer)
Nickel (UG/L)	2	2	11.0 J	M07A-03	10 Oct 2006	17.0 J	M07A-05	2002 04 (Winter)
Selenium (UG/L)	2	2	0.87 J	M07A-03	27 Mar 2007	45.0	M07A-02	2005 02 (Summer)
Silver (UG/L)	2	2	1.8 J	M07A-10	10 Oct 2006	2.3 J	M07A-07	2004 02 (Summer)
Vanadium (UG/L)	2	2	16.0	M07A-03	27 Mar 2007	31.0	M07A-05	2002 02 (Summer)
Zinc (UG/L)	2	2	190 J	M07A-10	10 Oct 2006	118	M07A-01	2004 01 (Spring)
Iron (UG/L)	2	2	8600	M07A-10	10 Oct 2006	42900	M07A-07	2003 02 (Summer)
Calcium (MG/L)	2	2	400	M07A-03	27 Mar 2007	680	M07A-02	2003 02 (Summer)
Magnesium (MG/L)	2	2	1100	M07A-03	27 Mar 2007	1850	M07A-05	2003 04 (Winter)
Potassium (MG/L)	2	2	270	M07A-03	27 Mar 2007	586	M07A-05	2003 04 (Winter)
Sodium (MG/L)	2	2	8400 J	M07A-03	10 Oct 2006	14400	M07A-05	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.2-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 7

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 7 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	2	2	2500	M07A-03	27 Mar 2007	4300	M07A-02	2004 04 (Winter)
Sulfide (MG/L)	2	2	2.5	M07A-10	27 Mar 2007	109	M07A-05	2003 04 (Winter)
Alkalinity, bicarbonate (MG/L)	2	2	2500	M07A-03	27 Mar 2007	4300	M07A-02	2004 04 (Winter)
Chloride (MG/L)	2	2	16000	M07A-03	27 Mar 2007	32800	M07A-02	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	1	2	30.0	M07A-10	27 Mar 2007	870	M07A-08	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

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FIGURES

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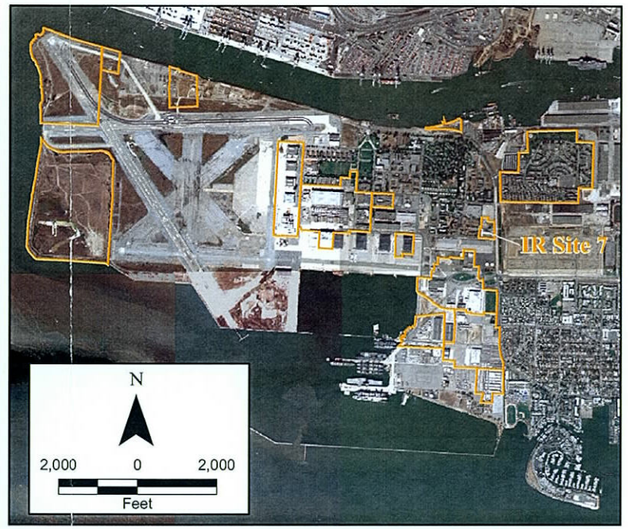
DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

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FIGURE 3.2-1
OPERABLE UNIT 1 - IR SITE 7
SITE AND WELL LOCATION MAP

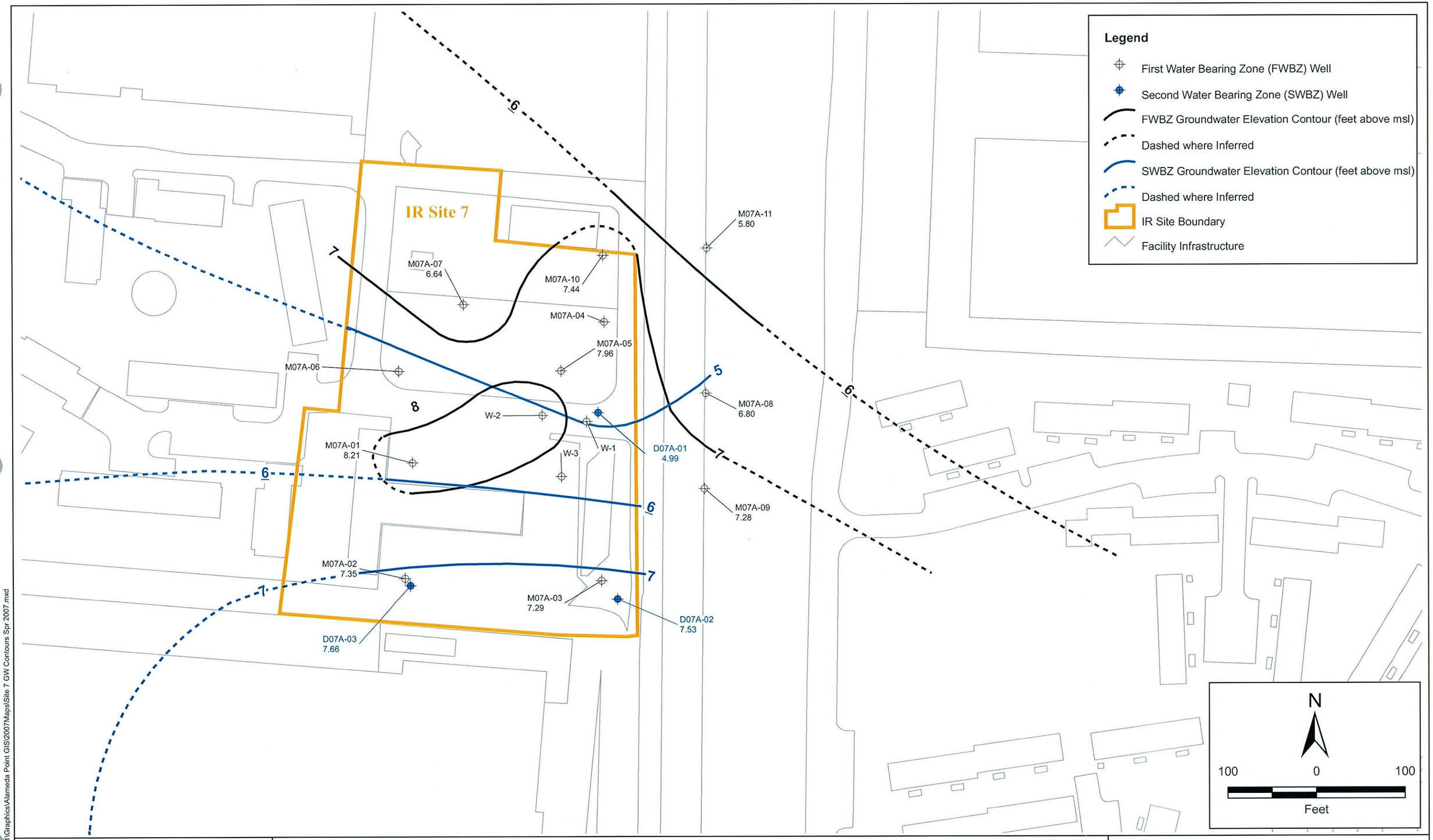

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FIGURE 3.2-2
OPERABLE UNIT 1 - IR SITE 7
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

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FIGURE 3.2-3
OPERABLE UNIT 1 - IR SITE 7
GROUNDWATER MTBE CONCENTRATIONS
IN FWBZ WELLS
SPRING 2007

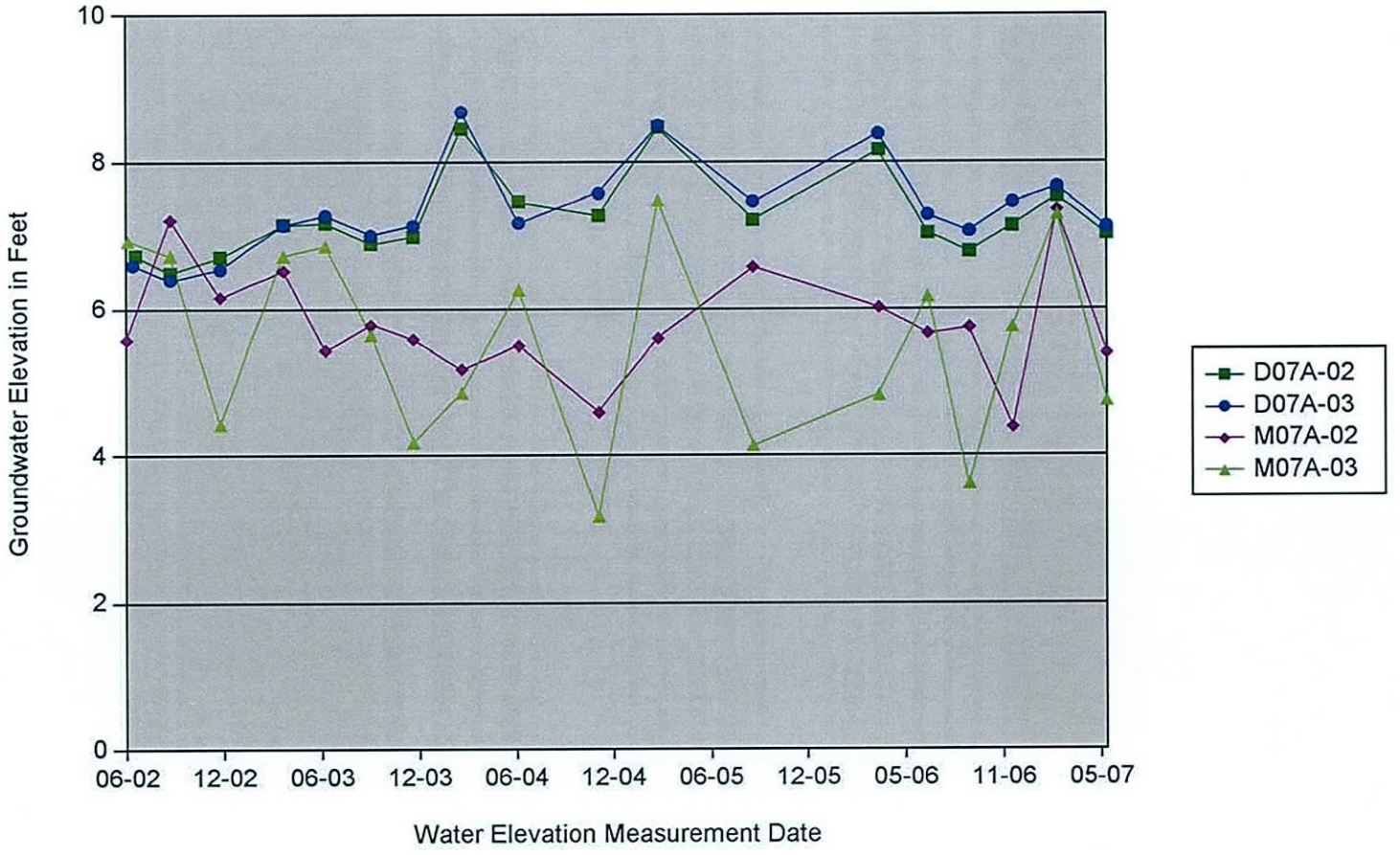

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FIGURE 3.2-4
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 7:
PAIRED WELLS (FWBZ WELL M07A-03 AND SWBZ WELL D07A-02;
FWBZ WELL M07A-02 AND SWBZ WELL D07A-03)
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 3.2-4.ai

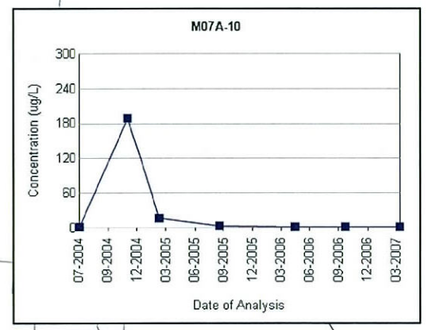
Legend

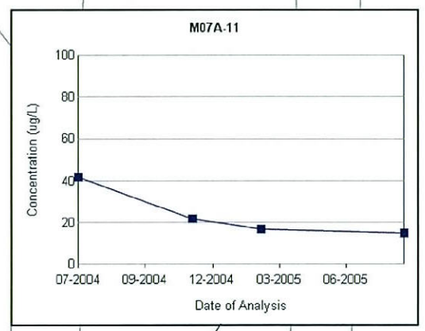
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

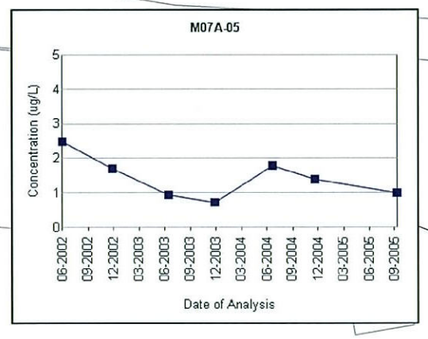
MTBE Methyl tert-butyl ether
MCL Maximum Contaminant Level
ug/L micrograms per Liter

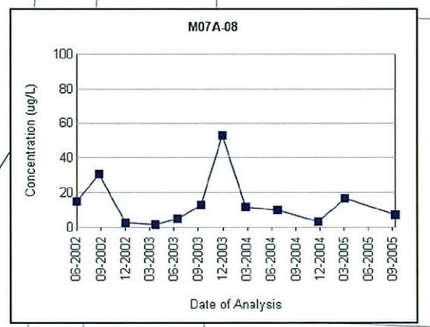
MTBE

Analyte	MCL	Units
MTBE	13.0	UG/L









IR Site 7

M07A-07

M07A-06

D07A-01

W-2

W-1

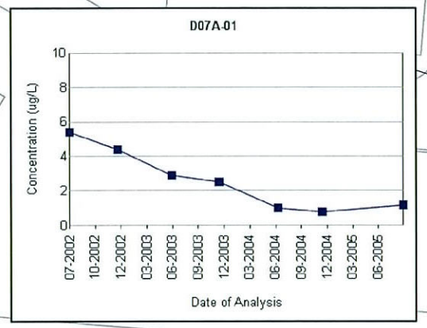
W-3

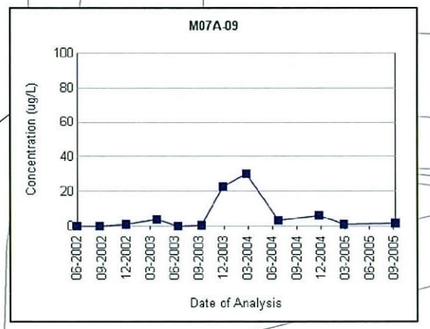
M07A-02

D07A-03

M07A-03

D07A-02





N

100 0 100

Feet

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FIGURE 3.2-5
OPERABLE UNIT 1 - IR SITE 7
GROUNDWATER CONCENTRATIONS OF MTBE
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

3.3 INSTALLATION RESTORATION SITE 8

IR Site 8, the Public Works Center Shop (Building 114 and the immediate vicinity), is located in central Alameda Point, near the intersection of Saratoga Street and West Midway Avenue (Figure 1-2). Building 114 housed administrative and staff service operations. The site also formerly contained a pesticide storage and mixing area, which was the basis for the original IR site designation. According to the Final RI Report for OU-1 (Tetra Tech, 1999a), activities conducted from Building 114 included weed and pest control, chemical storage and mixing, and painting. Operations in Building 114 ceased in April 1997. While in operation, the Public Works Center stored pesticides in an outdoor shed at the northwestern corner of Building 114, in an interior courtyard. Potential sources of contamination include:

- Waste discharges to a separator pit, grease traps, storm water system, and industrial waste system
- Pesticide spills during chemical mixing and storage
- A fuel line south of Building 114

During the IR site investigation, no evidence of significant impacts to groundwater attributable to prior activities at Building 114 was found. Data collected during the investigation indicated the presence of benzene in the groundwater that is attributable to a fuel pipeline adjacent to Building 114.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 8 included groundwater monitoring and sampling and analysis of six FWBZ groundwater monitoring wells and one SWBZ groundwater monitoring well. In addition, three FWBZ groundwater monitoring wells (MBG-01, M08-02, and M08-04) were used for measuring quarterly groundwater levels only. The groundwater monitoring wells for the Summer 2006 through Spring 2007 program are listed in Table 3.3 1 with the analytical requirements. Table 3.3 1 also presents the IR Site 8 Program and Non-Program well screen intervals, water-bearing zones, and geological units. The IR Site 8 groundwater monitoring well locations are presented on Figure 3.3-1.

3.3.1 Groundwater Level Measurement Summary

Groundwater levels were measured and recorded from 10 groundwater monitoring wells during the Summer 2006 through Spring 2007 events at IR Site 8. Historical and current groundwater measurements are presented in Table 3.3-2. Groundwater flow direction and gradient are discussed in Section 3.3.4.1; trends in groundwater elevations are discussed in Section 3.3.4.2.

3.3.2 Analytical Parameters

Groundwater samples collected from monitoring wells at IR Site 8 during the Fall 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- TPH as diesel, motor oil, and jet fuel by EPA Method 8015B
- TPH as gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8270 SIM
- Organochlorine pesticides by EPA Method 8081A
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

Table 3.3-1 lists the active IR Site 8 groundwater monitoring wells and analytical requirements for the Basewide Monitoring Program.

3.3.3 Analytical Results Summary

Historical analytical data and analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in Tables 3.3-3 through 3.3-8 as follows:

- Table 3.3-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 8, Summer 2002 through Spring 2007."
- Table 3.3-4, "Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 1 - IR Site 8, Summer 2002 through Spring 2007."
- Table 3.3-5, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 1 - IR Site 8, Summer 2002 through Spring 2007."
- Table 3.3-6, "Groundwater Sample Analytical Results: Organochlorine Pesticides at Operable Unit 1 - IR Site 8, Summer 2002 through Spring 2007."

- Table 3.3-7, "Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 8, Summer 2002 through Spring 2007".
- Table 3.3-8, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 8, Summer 2002 through Spring 2007."

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

3.3.4 Discussion of Results

Groundwater samples collected during the Summer 2006 to Spring 2007 sampling events indicate that groundwater concentrations of TPH were non-detect for the Site IR 8 program groundwater monitoring wells.

Aromatic hydrocarbon concentrations have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ at IR Site 8. Benzene concentrations exceeded the 1.0 µg/L MCLs in FWBZ groundwater monitoring wells M08-03 and M08-08 during the Fall 2006 sampling event. Benzene concentrations were reported in the groundwater samples collected from monitoring wells M08-03 and M08-08 at 2.1 µg/L and 7.1 µg/L, respectively. The distribution of aromatic hydrocarbons in FWBZ groundwater monitoring wells at IR Site 8 is discussed more fully in Section 3.3.4.2. Aromatic compounds have not been detected above reporting limits in the only SWBZ groundwater monitoring well (D08-01) at Site IR 8 since the groundwater sampling program began during Summer 2002.

Analytical results for TPH and VOCs for Site IR 8 program groundwater monitoring wells are presented in Table 3.3-3.

Historically, chlorinated hydrocarbons have been not detected in FWBZ or SWBZ wells at IR Site 8. During the Spring 2007 event, analytical results for groundwater samples collected from well M08-01 indicated concentrations of cis-1,2-dichlorethene at 1.1 µg/L. The MCL for cis-1,2-dichlorethene is 6.0 µg/L.

Historically, 1,4-dioxane has been detected in trace concentrations, but below reporting limits. 1,4-Dioxane concentrations of 0.29J µg/L (estimated) were reported from groundwater samples collected from IR Site 8 FWBZ well M08-04 during the Winter 2004 event. 1,4-Dioxane was not detected in the groundwater samples collected from the IR Site 8 FWBZ or SWBZ wells during the 2006 - 2007 sampling year. Analytical results for 1,4-dioxane are presented in Table 3.3-4.

Metals did not exceed MCLs in groundwater at IR Site 8 during the Fall 2006 and Spring 2007 sampling events. Analytical results for dissolved metals are presented in Table 3.3-5.

The organochlorine pesticide, heptachlor epoxide was detected at two locations, M08-03 and M08-06, at concentrations of 0.0050 J µg/L and 0.0070 µg/L, respectively. Both detections were below the MCL of 0.010 µg/L. Historically, only 4,4-DDT and heptachlor have been detected at IR Site 8. Organochlorine pesticide results are presented in Table 3.3-6.

3.3.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 3.3-2. Groundwater flow direction in the First Water-Bearing Zone at IR Site 8 is generally towards the northeast at a gradient of approximately 0.002 foot per foot. Groundwater flow direction in the SWBZ at IR Site 8 is generally towards the west; however, a gradient cannot be calculated with any degree of accuracy, based on the sparse distribution of SWBZ wells in the vicinity. The water level in the SWBZ well at IR Site 8 in Spring 2007 was 0.66 feet lower than that in the nearby FWBZ well, indicating an overall downward vertical gradient.

3.3.4.2 Groundwater Contaminant Distribution

Benzene was not detected in groundwater samples collected from IR Site 8 during the Spring 2007 event. Historically, benzene has been detected in groundwater samples collected from wells M08-01, M08-03, and M08-06. Benzene concentrations in groundwater at IR Site 8 are posted on Figure 3.3-3.

3.3.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 3.3-9, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte.

Concentrations exceeding MCLs are highlighted in yellow on the table. Table 3.3-9 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those found in previous sampling years.

3.3.4.4 Trends in Groundwater Elevation Data

One hydrograph was prepared for the Spring 2007 Annual Report: Figure 3.3-4. The following observations can be made from viewing this hydrograph:

- Groundwater elevations for the FWBZ well (M08-02 and M08-08) show a seasonal pattern of higher elevations in the summer, with seasonal lows in the fall.
- Groundwater elevations for the SWBZ well (D08-01) have a relatively flat seasonal variation, with small peaks appearing in the spring or summer and seasonal lows in the fall (Figure 3.3-4).
- The hydrograph for IR Site 8 wells indicates a general increase in groundwater elevations over time, with both seasonal lows and peaks showing a tendency to increase every year since 2002.

3.3.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of benzene, several other aromatic hydrocarbons, and total petroleum hydrocarbons have been consistently detected in groundwater at IR Site 8 since monitoring was initiated in Summer 2002. While the same set of analytes has been detected, all detections have been relatively low, and all wells have shown non-detect events interspersed with samples

showing detections (Table 3.3-3). Trends in groundwater concentrations of benzene over time are shown on Figure 3.3-5.

The groundwater concentrations of benzene show significant fluctuations that are not confined to specific seasons. While the overall trends of the time-series plots at two wells (M08-01 and M08-05) show a general decrease in concentrations over time, the other well (M08-03) shows a slight increase in benzene concentrations over time. As noted above, similar fluctuating patterns can be discerned for other aromatic hydrocarbons and for petroleum hydrocarbons (Table 3.3-3). The overall pattern is that hydrocarbon contamination exists at IR Site 8, but concentrations are generally low and MCL exceedances may or may not be present at a given well from one event to the next. Time-series trends were not prepared for metals, because the two MCL exceedances to date occurred only in a single event and have not been replicated.

3.3.5 Conclusions and Recommendations

Given the sporadic detection of contaminants at this site, it is recommended that groundwater sampling at IR Site 8 be revised accordingly. For organic compounds, only benzene has exceeded MCLs, with concentrations fluctuating between below and slightly above the MCL in three wells since Summer 2002. As a result, consistent contaminant distribution in the form of contaminant plumes cannot be defined for IR Site 8. The Navy plans to suspend routine sampling under the BGMP at IR Site 8, as site data will be evaluated separately under the CERCLA program for the site beginning in Spring 2008.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 3.3-1
Groundwater Monitoring Summary, Operable Unit 1-IR Site 8, Summer 2006 through Spring 2007

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds					Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells														
First	M08-01	Fill	4 - 14	A	A	A	A	A	A[1]	A	A	A	A	A
	M08-03	Fill	4 - 14	S	S	S	S	S	S[1]	A	A	A	A	A
	M08-05	Fill	4 - 14	A	A	A	A	A	A[1]	A	A	A	A	A
	M08-06	Fill	3.5-13.5	S	S	S	S	S	S[1]	A	A	A	A	A
	M08-07	Fill	3.5 - 13.5	A	A	A	A	A	A[1]	A	A	A	A	A
	M08-08	Fill	4 - 13.5	A	A	A	A	A	A[1]	A	A	A	A	A
Second	D08-01	Merritt	60 - 70	A	A	A	A	A	A[1]	A	A	A	A	A
Non-Program Wells, Water Level Only														
First	MBG-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-
	M08-02	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-
	M08-04	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

\- Well not in analytical program.

[1] Priority Pollutant metals only

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 3.3-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 8,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M08-01	11.48	11.14 *	03/06/07	4.64	6.50
		11.48	11.14 *	12/12/06	NM	NC
		11.48	11.14 *	09/25/06	5.12	6.02
		11.48	11.14 *	07/10/06	4.90	6.24
		11.48	11.14 *	04/10/06	6.61	4.53
		11.48	11.14 *	08/23/05	5.10	6.04
		11.48	11.14 *	02/28/05	4.25	6.89
		11.48	11.14 *	11/09/04	5.17	5.97
		11.48	11.14 *	03/01/04	4.28	6.86
		11.48	11.14 *	03/01/04	4.28	6.86
		11.48	11.14 *	12/03/03	5.29	5.85
		11.48	11.14 *	09/16/03	5.12	6.02
		11.48	11.14 *	06/23/03	4.43	6.71
		11.48	11.14 *	04/07/03	5.37	5.77
		11.48	11.14 *	12/11/02	6.17	4.97
		11.48	11.14 *	09/03/02	6.05	5.09
		11.48	11.14 *	06/24/02	5.85	5.29
First	M08-02 ‡	13.38	12.78 *	09/25/06	Abandoned	Abandoned
		13.38	12.78 *	07/10/06	Abandoned	Abandoned
		13.38	12.78 *	02/28/05	NM	NC
		13.38	12.78 *	11/09/04	7.12	5.66
		13.38	12.78 *	06/18/04	5.51	7.27
		13.38	12.78 *	03/01/04	6.58	6.20
		13.38	12.78 *	12/03/03	7.60	5.18
		13.38	12.78 *	09/16/03	6.95	5.83
		13.38	12.78 *	06/23/03	5.65	7.13
		13.38	12.78 *	04/07/03	7.48	5.30
		13.38	12.78 *	12/11/02	8.35	4.43
		13.38	12.78 *	09/03/02	8.17	4.61
		13.38	12.78 *	06/28/02	8.00	4.78
First	M08-03	11.73	11.26 *	03/06/07	5.41	5.85
		11.73	11.26 *	12/12/06	6.05	5.21
		11.73	11.26 *	09/25/06	5.99	5.27
		11.73	11.26 *	07/10/06	5.55	5.71
		11.73	11.26 *	04/10/06	4.19	7.07
		11.73	11.26 *	08/23/05	5.95	5.31
		11.73	11.26 *	02/28/05	4.73	6.53
		11.73	11.26 *	11/09/04	6.06	5.20
		11.73	11.26 *	06/17/04	5.83	5.43
		11.73	11.26 *	03/01/04	3.33	7.93
		11.73	11.26 *	12/03/03	6.40	4.86
		11.73	11.26 *	09/16/03	6.31	4.95
		11.73	11.26 *	06/23/03	5.75	5.51
		11.73	11.26 *	04/07/03	6.06	5.20
		11.73	11.26 *	12/11/02	6.81	4.45
		11.73	11.26 *	09/03/02	6.73	4.53
		11.73	11.26 *	06/25/02	6.47	4.79

Table 3.3-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 8,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M08-04	9.96	9.96	03/06/07	3.75	6.21
		9.96	9.96	12/12/06	NM	NC
		9.96	9.96	09/25/06	4.84	5.12
		9.96	9.96	07/10/06	3.92	6.04
		9.96	9.96	04/10/06	2.95	7.01
		9.96	9.96	08/23/05	4.63	5.33
		9.96	9.96	02/28/05	3.23	6.73
		9.96	9.96	11/09/04	4.74	5.22
		9.96	9.96	06/18/04	4.73	5.23
		9.96	9.96	03/01/04	2.85	7.11
		9.96	9.96	12/03/03	5.15	4.81
		9.96	9.96	09/16/03	5.12	4.84
First	M08-05	10.32	9.78 *	03/06/07	3.27	6.51
		10.32	9.78 *	12/12/06	4.00	5.78
		10.32	9.78 *	09/25/06	4.21	5.57
		10.32	9.78 *	07/10/06	3.75	6.03
		10.32	9.78 *	04/10/06	2.36	7.42
		10.32	9.78 *	08/23/05	3.91	5.87
		10.32	9.78 *	02/28/05	2.74	7.04
		10.32	9.78 *	11/09/04	4.07	5.71
		10.32	9.78 *	06/17/04	4.01	5.77
		10.32	9.78 *	03/01/04	3.02	6.76
		10.32	9.78 *	12/03/03	4.46	5.32
		10.32	9.78 *	09/16/03	4.45	5.33
		10.32	9.78 *	06/23/03	3.63	6.15
		10.32	9.78 *	04/07/03	4.16	5.62
		10.32	9.78 *	12/11/02	5.02	4.76
		10.32	9.78 *	09/03/02	4.90	4.88
		10.32	9.78 *	06/25/02	4.61	5.17
First	M08-06 ‡	10.49	10.40 **	03/06/07	3.60	6.8
		10.49	10.40 **	12/12/06	NM	NC
		10.49	10.40 **	09/25/06	5.00	5.4
		10.49	10.40 **	07/10/06	4.42	5.98
		10.49	10.40 **	04/10/06	2.62	7.78
		10.49	10.40 **	08/23/05	4.73	5.67
		10.49	10.40 **	02/28/05	2.99	7.41
		10.49	10.40 **	11/09/04	4.68	5.72
		10.49	10.40 **	06/17/04	4.88	5.52
		10.49	10.40 **	03/01/04	3.12	7.28
		10.49	10.40 **	12/03/03	5.18	5.22
		10.49	10.40 **	09/16/03	5.20	5.20
		10.49	10.40 **	06/23/03	4.22	6.18
		10.49	10.40 **	04/07/03	4.82	5.58

Table 3.3-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 8,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M08-07	11.84	12.48 *	03/06/07	4.88	7.6
		11.84	12.48 *	12/12/06	NM	NC
		11.84	12.48 *	09/25/06	5.20	7.28
		11.84	12.48 *	07/10/06	5.07	7.41
		11.84	12.48 *	04/10/06	3.94	8.54
		11.84	12.48 *	08/23/05	5.24	7.24
		11.84	12.48 *	02/28/05	4.67	7.81
		11.84	12.48 *	11/09/04	5.45	7.03
		11.84	12.48 *	06/18/04	5.28	7.20
		11.84	12.48 *	03/01/04	3.50	8.98
		11.84	12.48 *	12/03/03	5.70	6.78
		11.84	12.48 *	09/16/03	5.52	6.96
		11.84	12.48 *	06/23/03	5.09	7.39
		11.84	12.48 *	04/07/03	5.71	6.77
		11.84	12.48 *	12/10/02	6.46	6.02
		11.84	12.48 *	09/03/02	6.18	6.30
		11.84	12.48 *	06/26/02	6.20	6.28
First	M08-08	12.66	12.66	03/06/07	6.68	5.98
		12.66	12.66	12/12/06	7.39	5.27
		12.66	12.66	09/25/06	6.98	5.68
		12.66	12.66	07/10/06	6.77	5.89
		12.66	12.66	04/10/06	5.35	7.31
		12.66	12.66	08/23/05	7.09	5.57
		12.66	12.66	02/28/05	6.10	6.56
		12.66	12.66	11/09/04	7.21	5.45
		12.66	12.66	06/18/04	6.28	6.38
Second	D08-01	12.96	12.75 *	03/06/07	7.25	5.5
		12.96	12.75 *	12/12/06	7.43	5.32
		12.96	12.75 *	09/25/06	7.24	5.51
		12.96	12.75 *	07/10/06	7.11	5.64
		12.96	12.75 *	04/10/06	6.1	6.65
		12.96	12.75 *	08/23/05	7.36	5.39
		12.96	12.75 *	02/28/05	6.95	5.80
		12.96	12.75 *	11/09/04	7.44	5.31
		12.96	12.75 *	06/17/04	7.38	5.37
		12.96	12.75 *	03/01/04	6.90	5.85
		12.96	12.75 *	12/03/03	7.70	5.05
		12.96	12.75 *	09/16/03	7.58	5.17

Table 3.3-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 8,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D08-01	12.96	12.75 *	06/23/03	7.41	5.34
		12.96	12.75 *	04/07/03	7.55	5.20
		12.96	12.75 *	12/11/02	7.75	5.00
		12.96	12.75 *	09/03/02	7.73	5.02
		12.96	12.75 *	07/15/02	7.74	5.01

Notes:

BTOC = below top of casing

msl = mean sea level

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 3.3-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-01	2007 01 (Spring)		< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)		< 50.0	210	84.0 J	< 50.0	294	16.0	0.090 J	5.2	1.3	1.2	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	0.070 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		< 50.0	< 50.0	82.0 J	< 50.0	82.0	1.3	< 0.50	0.20 J	0.10 J	0.10 J	5.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		57.0 J	< 50.0	< 300	< 50.0 UJ	57.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		84.0	62.0	< 300	< 50.0	146	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)		< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		< 200	< 300	< 200	< 50.0	< 300	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	6.3	0.40 J	1.3	0.60	0.50 J	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-02	2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		< 190	< 280	< 190	< 50.0	< 280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2003 03 (Fall)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	25.0 J	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-03	2007 01 (Spring)		< 50.0	< 50.0	< 300	< 17.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0	< 300	2.1	< 0.50	< 0.50	< 0.50	0.20 J	5.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)		230	< 50.0	< 300	< 50.0	230	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		68.0	60.0	< 300	< 50.0	163	7.0	< 0.50	0.10 J	0.20 J	0.50	21.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		28.0 J	< 50.0	< 300	35.0 J	63.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	2.1	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		150 J	160	< 300	63.0 J	373	8.3	0.10 J	0.070 J	0.20 J	0.40 J	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		61.0	93.0	< 300	< 85.0	154	9.7	< 0.50	0.30 J	< 0.50	0.60	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	0.78 J	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		130 J	< 290	< 190	54.0	184	4.5	< 1.0	0.87 J	< 1.0	0.53 J	10.0	0.60 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-03	2003 03 (Fall)	130 J	< 290	< 190	78.0	208	2.3	< 1.0	< 1.0	< 1.0	0.41 J	7.4	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	47.0 J	47.0	0.56	< 1.0	< 1.0	< 1.0	0.23 J	6.3	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	98.0	100	< 300	68.0	266	0.30 J	< 0.50	< 0.50	< 0.50	0.40 J	< 2.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 73.0 UJ	82.0 J	< 300 UJ	< 50.0 UJ	82.0	0.20 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.20 J	5.3 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0	< 50.0	< 300	44.0 J	44.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	3.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-04	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M08-05	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	25.0 J	< 50.0	< 300	< 50.0	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	74.0 J	< 50.0	110 J	< 50.0 UJ	184	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	2.2	< 0.50	0.20 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	130 J	< 50.0	130	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0 UJ	2.7	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	0.73	< 1.0	0.22 J	< 1.0	< 1.0	2.1	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	37.0 J	< 50.0	88.0 J	< 50.0	125	< 0.30 J	< 0.50 UJ	0.40 J	< 0.50 UJ	< 0.50 UJ	7.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 60.0 UJ	210 J	< 300 UJ	< 90.0 UJ	210	18.0 J	0.10 J	8.3 J	1.6 J	1.0 J	120 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-06	2007 01 (Spring)	< 15.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 90.0	< 300	7.1	0.80	2.8	1.3	1.8	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.10 J	0.20 J	0.10 J	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-07	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	24.0 J	< 50.0	< 300	< 50.0	24.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	71.0 J	< 50.0	< 300	< 50.0 UJ	71.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	230	< 50.0	230	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	0.83 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-08	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	23.0 J	< 50.0	120 J	< 50.0	143	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	38.0 J	< 50.0	180 J	< 50.0 UJ	218	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
SWBZ	D08-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	200 J	< 50.0	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	23.0 J	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D08-01	2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-4
Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 1 - IR Site 8
Fall/Winter 2004 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	UG/L
		MCL:	NA
		BV:	NA
	Well Number	Event ***AWQC:***	NA
FWBZ	M08-01	2007 01 (Spring)	< 0.97
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.98
		2004 04 (Winter)	< 1
	M08-03	2007 01 (Spring)	< 0.95
		2006 03 (Fall)	< 0.95
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.98
		2004 04 (Winter)	< 0.97
	M08-04	2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	**0.29 J**
	M08-05	2007 01 (Spring)	< 0.95
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.94
		2004 04 (Winter)	< 0.95
	M08-06	2007 01 (Spring)	<0.96
		2006 03 (Fall)	<0.95
		2006 01 (Spring)	<0.95
	M08-07	2007 01 (Spring)	< 0.96
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.97
		2004 04 (Winter)	< 1.1
	M08-08	2007 01 (Spring)	< 0.95
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	< 0.97
SWBZ	D08-01	2007 01 (Spring)	< 0.98
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.98

Table 3.3-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M08-01	2007 01 (Spring)	< 0.23	3.4 J	-	< 2.0	< 5.0	< 1.3	-	0.99 J	< 2.1	-	< 0.20	-	< 20.0	< 5.0	0.089 J	< 5.0	-	< 2.3	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	7.1	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.31 J	-	< 0.20	-	2.6 J	< 5.0	< 5.0	< 5.0	-	8.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.77 J	13.0	63.0	< 2.0	< 5.0	2.0 J	0.59 J	3.4 J	2.0 J	170	< 0.20	1.9 J	3.4 J	< 5.0	< 5.0	< 5.0	3.5 J	**41.0**	1000	810	8.2	10.0	14.0	360
		2004 04 (Winter)	0.16 J	3.8 J	49.0	< 2.0	< 5.0	0.59 J	0.12 J	1.0 J	0.086 J	92.0	< 0.20	2.7 J	1.2 J	< 5.0	< 5.0	0.25 J	2.5 J	5.5 J	18.0 J	86.0 J	18.0	11.0	8.1	120
		2004 02 (Summer)	< 1.0	5.3	33.0	< 2.0	< 5.0	0.46 J	0.25 J	< 10.0	0.25 J	97.0	< 0.20	< 20.0	0.67 J	< 5.0	< 5.0	< 1.0	1.4 J	< 20.0	< 96.0	170	11.0	8.0	39.0	**6900**
		2003 04 (Winter)	< 5.0	4.1 J	60.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	184 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	694	982	27.0	14.0	9.5	174
		2003 02 (Summer)	< 50.0	8.8 J	74.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	190	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.4 J	< 20.0	< 200	26.9 J	23.4	13.4	10.5 J	278
		2002 04 (Winter)	< 50.0	6.6	69.0	< 2.0	< 5.0	< 10.0	0.18 J	0.91 J	0.14 J	200 J	< 0.20	< 20.0	< 20.0 UJ	< 5.0	< 5.0	< 2.0	< 10.0	13.0 J	42.0 J	< 240	22.0	11.0	10.0	250
		2002 02 (Summer)	0.25 J	7.6	97.0 J	0.088 J	< 5.0	2.2 J	0.25 J	0.35 J	0.15 J	160	< 0.20	3.7 J	1.3 J	1.5 J	0.66 J	0.38 J	3.1 J	< 20.0	6.7 J	230	19.0	15.0	14.0	400
	M08-02	2004 02 (Summer)	< 1.0	4.2	170	< 2.0	< 5.0	< 10.0	0.84 J	< 10.0	0.11 J	250	0.10 J	< 20.0	7.9 J	< 5.0	< 5.0	< 1.0	< 10.0	< 28.0	< 50.0	1100	43.0	8.9	2.8	22.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	305	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	304	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	1290	73.3	12.8	4.2	26.5
		2003 02 (Summer)	< 50.0	< 50.0	497	< 4.0	< 5.0	< 10.0	4.4 J	6.0 J	< 10.0	656	< 0.40 UJ	< 50.0	**21.7**	< 20.0	< 10.0	< 5.0	1.7 J	< 20.0	< 200	1380	**206**	46.8	5.1 J	73.8
		2002 04 (Winter)	0.30 J	9.9	350	< 2.0	< 5.0	< 10.0	2.1 J	0.71 J	0.037 J	630 J	< 0.20	< 20.0	6.3 J	< 5.0	< 5.0	< 2.0	< 10.0	1.5 J	3.3 J	1800	88.0	19.0	5.0	61.0
		2002 02 (Summer)	< 50.0	6.6	270	< 2.0	< 5.0	0.56 J	0.65 J	0.42 J	< 3.0	110	< 0.20	3.6 J	6.7 J	< 5.0	-	< 2.0	3.5 J	2.8 J	< 100	290	70.0	13.0	8.4	69.0
	M08-03	2007 01 (Spring)	< 0.16	3.2 J	-	< 2.0	< 5.0	< 0.64	-	< 10.0	< 2.1	-	**0.23**	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 03 (Fall)	0.33 J	2.3 J	-	0.26 J	0.19 J	< 10.0	-	-	< 3.0	-	< 0.20	-	< 20.0	< 5.0	0.24 J	0.72 J	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	4.0 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	0.39 J	< 5.0	< 5.0	< 5.0	-	4.3 J	-	-	-	-	-	-
		2005 02 (Summer)	0.85 J	< 5.0	**650**	< 2.0	< 5.0	< 10.0	0.44 J	< 10.0	< 3.0	910	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	7.8 J	< 100	1000	120	130	36.0	920
		2004 04 (Winter)	0.11 J	2.4 J	360	< 2.0	< 5.0	0.80 J	0.40 J	0.49 J	< 3.0	880	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	1.3 J	2.4 J	3.5 J	1200	120	97.0	27.0	620
		2004 02 (Summer)	< 1.0	2.2	470	< 2.0	< 5.0	1.2 J	0.46 J	< 10.0	< 1.0	980	< 0.20	< 20.0	1.1 J	< 5.0	0.95 J	< 1.0	1.1 J	< 20.0	< 50.0	1200	140	140	38.0	760
		2003 04 (Winter)	< 5.0 UJ	< 50.0	302	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	910	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	954	126	98.5	33.4	553
		2003 02 (Summer)	< 50.0	< 50.0	323	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	566	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	643	110	77.4	21.6 J	358
		2002 04 (Winter)	< 50.0	< 5.0	310	< 2.0	< 5.0	< 10.0	0.28 J	0.76 J	0.031 J	770 J	< 0.20	< 20.0	< 20.0 UJ	3.6 J	< 5.0	< 2.0	< 10.0	10.0 J	3.1 J	1700	120	100 J	39.0	560
		2002 02 (Summer)	0.052 J	< 5.0	200	< 2.0	< 5.0	< 10.0	0.11 J	0.38 J	0.083 J	350	< 0.20	0.49 J	< 20.0	6.4	< 5.0	0.72 J	3.0 J	< 20.0	5.5 J	950	70.0	47.0	22.0	280
	M08-05	2007 01 (Spring)	< 0.29	4.2 J	-	< 2.0	< 5.0	< 1.7	-	0.64 J	< 2.1	-	< 0.20	-	< 0.92	< 5.0	< 5.0	< 5.0	-	9.7 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	3.9 J	-	< 2.0	< 5.0	< 10.0	-	1.4 J	< 3.0	-	< 0.20	-	1.5 J	< 5.0	< 5.0	< 5.0	-	13.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.94 J	< 5.0	54.0	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 3.0	50.0	< 0.20	4.6 J	1.3 J	< 5.0	< 5.0	< 5.0	2.7 J	18.0 J	**4900 J**	12.0 J	22.0	10.0	12.0	180
		2004 04 (Winter)	0.45 J	4.8 J	100	< 2.0	0.56 J	0.93 J	0.24 J	3.1 J	0.91 J	74.0	< 0.20	3.3 J	5.2 J	< 5.0	< 5.0	< 5.0	3.1 J	26.0	4.9 J	100	32.0	17.0	14.0	240
		2004 02 (Summer)	0.76 J	4.6	180	< 2.0	0.31 J	1.0 J	0.58 J	< 10.0	0.61 J	250	< 0.20	4.5 J	4.1 J	< 5.0	< 5.0	< 1.0	1.7 J	< 39.0	< 50.0	270	63.0	30.0	17.0	310
		2003 04 (Winter)	< 5.0	4.3 J	131	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	154	< 0.40	< 50.0	13.8 J	< 20.0	< 10.0	< 5.0	5.6 J	**64.7**	< 200	137	49.5	21.4	15.1	284
		2003 02 (Summer)	< 50.0	< 50.0	146	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	67.8	< 0.40 UJ	< 50.0	5.0 J	< 20.0	< 10.0	< 5.0	4.3 J	< 20.0	< 200	< 100	56.0	20.1	23.3 J	237

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.3-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M08-05	2002 04 (Winter)	< 50.0	3.7 J	69.0	< 2.0	< 5.0	< 10.0	1.7 J	0.90 J	0.67 J	380	< 0.20	< 20.0	8.0 J	< 5.0	< 5.0	< 2.0	< 10.0	250 J	< 100	2200	16.0	6.4	4.0	73.0
		2002 02 (Summer)	0.26 J	5.7	150	< 2.0	< 5.0	< 10.0	0.42 J	1.2 J	0.079 J	230	< 0.20	2.8 J	4.4 J	2.5 J	4.6 J	0.16 J	3.9 J	< 20.0	< 100	170	40.0	39.0	22.0	430
	M08-06	2007 01 (Spring)	1.3	2.0 J	-	< 2.0	0.091 J	< 0.68	-	0.51 J	< 0.16	-	0.088 J	-	0.55 J	0.52 J	< 5.0	0.37 J	-	< 20.0	-	-	-	-	-	-
		2006 03 (Fall)	0.64 J	6.2	-	< 2.0	< 5.0	< 10.0	-	-	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	1.3	1.9 J	-	< 2.0	< 5.0	< 10.0	-	1.8 J	< 3.0	-	< 0.20	-	1.1 J	< 5.0	< 5.0	< 5.0	-	9.9 J	-	-	-	-	-	-
	M08-07	2007 01 (Spring)	< 0.097	1.3 J	-	1.1 J	0.87 J	< 1.2	-	1.5 J	1.0 J	-	< 0.20	-	6.3 J	0.43 J	0.93 J	0.63 J	-	3.1 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.0 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.17 J	-	< 0.20	-	8.4 J	< 5.0	< 5.0	< 5.0	-	6.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.62 J	< 5.0	65.0	< 2.0	< 5.0	< 10.0	0.081 J	< 10.0	< 3.0	45.0	< 0.20	< 20.0	5.9 J	4.2 J	< 5.0	< 5.0	< 10.0	10.0 J	< 100	40.0 J	11.0	11.0	5.5	21.0
		2004 04 (Winter)	0.11 J	< 5.0	98.0	< 2.0	< 5.0	0.64 J	0.10 J	1.4 J	< 3.0	86.0	< 0.20	< 20.0	5.1 J	< 5.0	< 5.0	< 5.0	1.2 J	1.9 J	3.3 J	72.0 J	17.0	15.0	7.9	27.0
		2004 02 (Summer)	< 1.0	1.3	120	< 2.0	< 5.0	0.32 J	0.15 J	< 10.0	0.073 J	130	< 0.20	< 20.0	11.0 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	26.0 J	19.0	18.0	8.2	27.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	86.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	12.1	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	16.0	17.6	5.5	43.0
		2003 02 (Summer)	< 50.0	< 50.0	95.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	136	< 0.40 UJ	< 50.0	11.0 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	14.2	13.4	7.8 J	52.6
		2002 04 (Winter)	< 50.0	< 5.0	70.0	< 2.0	< 5.0	< 10.0	0.096 J	1.8 J	0.081 J	2.3 J	< 0.20	< 20.0	5.7 J	< 5.0	< 5.0	< 2.0	< 10.0	5.5 J	39.0 J	< 160	8.5	9.1	4.4	48.0
		2002 02 (Summer)	0.12 J	< 5.0	99.0	< 2.0	0.42 J	< 10.0	0.046 J	1.4 J	< 3.0	26.0	< 0.20	< 20.0	8.8 J	< 5.0	< 5.0	< 2.0	1.1 J	2.1 J	6.8 J	35.0 J	14.0	11.0	5.3	32.0
	M08-08	2007 01 (Spring)	0.51 J	2.3 J	-	< 2.0	0.072 J	< 0.88	-	0.77 J	< 3.0	-	< 0.20	-	5.8 J	< 5.0	< 5.0	< 5.0	-	2.6 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.5 J	-	< 2.0	< 5.0	1.5 J	-	3.7 J	0.25 J	-	< 0.20	-	**23.0**	< 5.0	< 5.0	< 5.0	-	8.3 J	-	-	-	-	-	-
		2005 02 (Summer)	0.67 J	3.2 J	160	0.097 J	0.21 J	1.9 J	0.90 J	1.7 J	< 3.0	430	< 0.20	1.0 J	5.7 J	0.42 J	0.11 J	1.8 J	1.1 J	5.5 J	5.1 J	1800	66.0	5.5 J	2.4	13.0
		2004 04 (Winter)	0.23 J	5.4	170	< 2.0	< 5.0	1.5 J	0.59 J	1.3 J	< 3.0	440	< 0.20	< 20.0	5.0 J	< 5.0	< 5.0	< 5.0	1.8 J	1.2 J	6.8 J	740	74.0	8.3	2.4	16.0
		2004 02 (Summer)	0.24 J	6.6	130	< 2.0	< 5.0	< 10.0	0.97 J	< 10.0	< 1.0	590	0.12 J	< 20.0	12.0 J	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	7.1 J	1500	78.0	11.0	3.1	21.0
SWBZ	D08-01	2007 01 (Spring)	< 0.27	2.5 J	-	< 2.0	< 5.0	< 0.57	-	0.38 J	< 3.0	-	< 0.20	-	**30.0**	< 5.0	< 5.0	< 5.0	-	< 2.8	-	-	-	-	-	-
		2006 01 (Spring)	0.27 J	1.9 J	-	0.56 J	1.1 J	< 10.0	-	< 10.0	0.15 J	-	< 0.20	-	**26.0**	3.5 J	0.13 J	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.71 J	2.5 J	84.0	0.065 J	< 5.0	1.5 J	17.0	6.7 J	< 3.0	**1900 J**	0.11 J	1.7 J	**33.0**	**27.0**	0.054 J	0.22 J	1.3 J	**92.0**	7.0 J	**7200**	75.0 J	24.0 J	4.9 J	30.0 J
		2004 04 (Winter)	0.22 J	8.2	76.0	0.16 J	< 5.0	0.84 J	16.0	9.0 J	0.39 J	**13000**	< 0.20	< 20.0	**36.0**	3.6 J	< 5.0	< 5.0	1.0 J	26.0	< 100	2400	**1100**	**1500**	32.0	**6000**
		2004 02 (Summer)	< 1.0	< 1.0	71.0	< 2.0	< 5.0	< 10.0	17.0	< 10.0	0.76 J	**15000**	< 0.20	< 20.0	**36.0**	5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	41.0 J	**1300**	**1800**	39.0	**7300**
		2003 04 (Winter)	< 25.0 UJ	< 50.0	62.1 J	< 4.0	< 5.0	< 10.0	13.6	< 10.0	< 10.0 UJ	**12100**	< 0.40	**30.6 J**	**30.9**	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	162	**1400**	**1980**	49.1	**8140**
		2003 02 (Summer)	< 50.0	8.5 J	69.8 J	< 4.0	< 5.0	< 10.0	**18.5**	< 10.0	< 10.0	**13800**	< 0.40 UJ	< 50.0	**38.2**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	354	**1290**	**1840**	112 J	**6410**
		2002 04 (Winter)	< 50.0	< 5.0	67.0	< 2.0	< 5.0	2.5 J	**19.0**	8.8 J	0.043 J	**11000 J**	< 0.20	< 20.0	**53.0**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	6100	**1200**	**1700 J**	31.0	**6800**
		2002 02 (Summer)	0.14 J	< 5.0	64.0	< 2.0	< 5.0	**14.0**	16.0	< 10.0	< 3.0	**11000**	< 0.20	< 20.0	20.0 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	3.4 J	100 J	**1100**	**1600**	33.0	**6400**

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.3-6

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M08-01	2007 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.010 J	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.10	< 0.10	< 0.10	< 0.10	< 0.060	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.060	< 0.060	< 0.60	< 1.1
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 4.7
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 5.0
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.095	< 0.090 UJ	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
	M08-02	2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 4.7
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 5.0
		2003 01 (Spring)	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.10	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	0.0092 J	< 0.090 UJ	< 0.090 UJ	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.095	< 0.090 UJ	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040 UJ	< 0.040	< 0.47 UJ	< 0.94
		2002 02 (Summer)	-	-	-	-	-	-	-	0.014 J	0.016 J	0.20 J	-	-	-	< 0.011 J	-	< 0.090	-	-	-	-	-
	M08-03	2007 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	0.0050 J	0.0050 J	< 0.050	< 0.050	< 0.050	0.0030 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0050 J	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	0.020 J	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0040 J	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-6

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M08-03	2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.050 UJ	< 0.50 UJ	< 5.0 UJ
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 4.7
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	0.0094 J	< 0.040	< 0.040	0.0097 J	< 0.040	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.095	< 0.090 UJ	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040 UJ	< 0.040 UJ	< 0.047 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.040 UJ	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 0.94
	M08-04	2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
	M08-05	2007 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050 UJ	< 0.050	< 0.50 UJ	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	0.017 J	< 0.040	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.095	< 0.090 UJ	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.040 UJ	< 0.49 UJ	< 0.98 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 0.94
	M08-06	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	0.0030 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0070 J	< 0.50	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-6

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M08-06	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	M08-07	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50 UJ	< 4.9
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.095	< 0.090 UJ	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.040 UJ	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.049	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 0.98
	M08-08	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
SWBZ	D08-01	2007 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.010 J	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-6

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
SWBZ	D08-01	2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 0.95
		2002 03 (Fall)	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.040 UJ	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.040 UJ	< 0.040	< 0.47 UJ	< 0.94

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-7
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 8
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M08-01	03/27/07	7.50	1.20	-88.8
		05/04/06	6.89	1.37	-149.0
		09/12/05	7.26	0.19	-125.0
		03/09/05	7.16	1.49	-3.0
		11/24/04	7.21	0.54	227.0
		06/25/04	7.18	0.87	141.0
		03/05/04	7.27	1.32	153.0
		12/09/03	7.36	0.59	253.0
		09/23/03	7.40	0.27	56.0
		06/30/03	7.55	0.31	-272.0
		04/10/03	7.50	3.00	163.0
		12/23/02	7.30	0.22	62.0
		09/09/02	7.57	0.80	-147.9
		06/24/02	7.59	8.30	-70.0
First	M08-03	03/27/07	6.53	0.48	-89.5
		10/05/06	6.34	0.32	-110.1
		05/04/06	6.49	0.51	-229.0
		09/12/05	6.63	2.75	-245.0
		03/09/05	6.92	0.00	-242.0
		11/24/04	6.51	0.48	-22.0
		06/25/04	6.66	0.16	-281.0
		03/05/04	6.67	0.21	172.0
		12/11/03	6.70	0.13	-195.5
		09/23/03	6.78	0.18	-105.0
		06/30/03	6.89	0.10	-331.0
		04/10/03	6.77	0.15	1.0
		12/23/02	6.89	0.14	-121.0
		09/10/02	6.91	0.70	-153.9
		06/25/02	6.81	0.90	-85.0
First	M08-04	09/12/05	6.77	0.35	14.0
		03/08/05	***5.99***	4.81	28.0
		11/24/04	6.71	0.46	174.0
		06/25/04	6.81	0.40	120.0
		03/05/04	6.78	2.81	156.0
		12/10/03	6.94	0.24	-83.0
		09/22/03	6.85	0.33	139.0
First	M08-05	03/27/07	10.68	2.79	390.7
		05/03/06	7.85	3.78	-14.0
		09/12/05	7.35	0.27	58.0
		03/09/05	6.83	2.13	-3.0
		11/24/04	7.13	0.82	191.0
		06/25/04	7.13	0.24	46.0
		03/05/04	7.37	1.49	287.0
		12/10/03	7.24	0.91	-6.7
		09/23/03	7.38	0.15	-112.0
		06/30/03	7.65	0.54	-278.0
		04/10/03	7.35	0.81	93.0

Table 3.3-7
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 8
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M08-05	12/24/02	6.17	4.43	-29.0
		09/10/02	8.21	***97.50***	-94.8
		06/25/02	7.42	4.50	154.0
First	M08-06	03/28/07	7.31	0.55	-10.0
		10/05/06	6.87	0.26	-96.7
First	M08-07	03/28/07	8.25	1.61	382.6
		05/04/06	6.53	0.12	6.0
		09/12/05	6.13	1.17	31.0
		03/09/05	6.44	1.70	90.0
		11/24/04	6.30	0.99	244.0
		06/25/04	6.12	0.20	145.0
		03/05/04	6.31	1.29	159.0
		12/11/03	6.06	3.54	50.3
		09/23/03	6.05	0.19	1.4
		06/30/03	6.37	0.29	-297.0
		04/10/03	6.10	***15.20***	194.0
		12/23/02	6.13	4.07	133.0
		09/10/02	6.08	8.70	245.1
		06/26/02	6.03	0.19	178.1
First	M08-08	03/28/07	6.58	0.62	25.6
		05/04/06	6.18	0.10	26.0
		09/08/05	6.33	0.02	-14.0
		03/09/05	6.70	2.81	19.0
		11/24/04	6.40	0.52	168.0
		06/28/04	6.60	0.23	-39.0
Second	D08-01	03/27/07	6.88	0.38	-119.8
		05/04/06	6.53	0.12	-132.0
		09/09/05	6.75	0.00	-39.0
		03/09/05	6.86	2.93	-120.0
		11/24/04	6.54	0.38	102.0
		06/25/04	6.58	0.29	-245.0
		03/05/04	6.45	0.22	172.0
		12/08/03	6.54	0.29	197.0
		09/22/03	6.57	0.10	16.0
		06/30/03	6.83	0.17	-280.0
		04/10/03	6.70	2.00	155.0
		12/23/02	7.06	0.05	-144.0
		09/10/02	6.77	1.20	-32.2
		07/15/02	7.18	0.77	0.0

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 3.3-8

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.059	0.16	< 0.050	60.0	16.0	170	170	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	2.6	0.16	< 0.050	320	10.0	230	230	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	1.7	0.090	< 0.050	180	23.0	240	240	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.030	0.090	< 0.050	86.0	30.0	230	230	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.014	0.14	< 0.050	60.0	36.0	290	290	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.012	< 1.0	< 1.0	109	52.3	254	254	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.15	0.16	< 0.10	266	22.7	300	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.092	0.030 J	< 0.050	180	65.0	320	320	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	2.2	< 0.050	< 0.050	440	40.0	360	360	< 1.0	< 1.0	< 0.040
	M08-02	2004 02 (Summer)	< 0.010	< 0.010	0.15	< 0.050	< 0.050	20.0	14.0	150	150	< 1.0	< 1.0	0.080
		2003 04 (Winter)	< 0.0030	< 0.0030	0.10	< 1.0	< 1.0	8.1	9.3	287	287	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.064	0.67	< 0.10	229	148	215	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.98	< 0.050	< 0.050	38.0	19.0	360	360	< 1.0	< 1.0	0.20
		2002 02 (Summer)	< 0.010	< 0.010	0.80	< 0.050	< 0.050	40.0	12.0	340	340	< 1.0	< 1.0	0.040 J
	M08-03	2007 01 (Spring)	< 0.0050	< 0.0050	7.9	0.040 J	< 0.050	36.0	17.0	260	260	< 10.0	< 10.0	0.85
		2006 01 (Spring)	< 0.025	< 0.025	9.4	0.030 J	< 0.050	180	12.0	270	270	< 1.0	< 1.0	0.44

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-8

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-03	2005 02 (Summer)	< 0.0050	< 0.0050	11.0	< 0.10	< 0.15	1500	7.5	600	600	< 1.0	< 1.0	1.7
		2004 04 (Winter)	< 0.0050	< 0.0050	11.0	< 0.050	< 0.10	1300	7.0	580	580	< 1.0	< 1.0	1.1
		2004 02 (Summer)	< 0.010	< 0.010	13.0	< 0.25	< 0.25	1800	7.0	720	720	< 1.0	< 1.0	0.65
		2003 04 (Winter)	< 0.0030	< 0.0030	2.6	-	-	1160	10.7	566	566	< 5.0	-	9.5
		2003 02 (Summer)	< 0.0030	< 0.0030	4.0	< 0.20	< 0.20	757	11.0	395	-	-	-	2.8
		2002 04 (Winter)	< 0.010	< 0.010	16.0	< 0.10	< 0.10	1200	< 1.0	540	540	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	8.2 J	< 0.050	< 0.050	260	23.0	340	340	< 1.0	< 1.0	< 0.040
	M08-04	2005 02 (Summer)	< 0.0050	< 0.0050	1.9	0.17	< 0.050	230	28.0	250	250	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	1.5	1.2	< 0.050	150	31.0	180	180	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.58	0.55	< 0.050	200	39.0	170	170	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	1.6	0.053 J	< 0.10	137	4.5	175	175	< 5.0	-	< 1.0
	M08-05	2007 01 (Spring)	< 0.0050	< 0.0050	0.0060	0.47	< 0.050	56.0	22.0	200	200	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.072	0.39	< 0.050	60.0	27.0	200	200	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.074	0.75	< 0.050	96.0	61.0	240	240	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.019	1.5	< 0.050	260	37.0	540	540	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.51	0.32	< 0.050	450	40.0	340	340	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-8

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-05	2003 04 (Winter)	< 0.0030	< 0.0030	0.052	1.1	< 0.10	303	37.1	374	374	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.055	0.90	< 0.10	256	34.5	310	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.038	0.52 J	< 0.050 UJ	39.0	19.0	160	160	< 1.0	< 1.0	0.12
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	0.039 J	1.7	< 0.050	270	47.0	310	310	< 1.0	< 1.0	< 0.040
	M08-06	2007 01 (Spring)	< 0.0050	< 0.0050	0.016	0.64	0.020 J	46.0	12.0	160	160	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0040 J	0.16	< 0.050	23.0	10.0	140	140	< 1.0	< 1.0	< 0.040
	M08-07	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.52	0.020 J	29.0	21.0	83.0	83.0	< 4.0	< 4.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.13	0.14	< 0.050	42.0	26.0	100	100	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.022	0.22	< 0.050	23.0	20.0	88.0	88.0	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.032	0.11	< 0.050	25.0	23.0	110	110	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.15	0.11	< 0.050	32.0	26.0	290	290	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0089	0.58	< 0.10	64.4	20.7	29.0	29.0	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.55	< 0.10	< 0.10	62.5	20.6	87.5	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.038	0.38	< 0.050	46.0	20.0	110	110	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.011	1.2	< 0.050	45.0	32.0	79.0	79.0	< 1.0	< 1.0	< 0.040
	M08-08	2007 01 (Spring)	< 0.0050	< 0.0050	0.017	< 0.050	< 0.050	18.0	47.0	270	270	< 10.0	< 10.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-8

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 8

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-08	2006 01 (Spring)	< 0.0050	< 0.0050	0.037	0.0090 J	< 0.050	14.0	27.0	170	170	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0050	0.040 J	< 0.050	11.0	22.0	180	180	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.077	0.010 J	< 0.050	12.0	14.0	170	170	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.18	< 0.050	< 0.050	11.0	15.0	340	340	< 1.0	< 1.0	< 0.040
SWBZ	D08-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.0040 J	< 1.0	< 2.5	15000	2100	640	640	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0060	< 1.0	< 2.5	15000	2200	610	610	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0040 J	< 1.0	< 2.5	14000	2100	640	640	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0040 J	< 1.3	< 2.5	16000	2200	610	610	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	16000	2100	640	640	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0025 J	1.3	< 50.0	11200	2340	615	615	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0021 J	< 1.0	< 1.0	16100	1900	593	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	15000	2300	580	580	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	16000	2200	620	620	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	6	0.80 J	M08-05	27 Mar 2007	12.0 J	M08-03	2004 01 (Spring)
Benzene (UG/L)	2	6	7.1	M08-06	05 Oct 2006	18.0 J	M08-05	2002 03 (Fall)
Toluene (UG/L)	1	6	0.80	M08-06	05 Oct 2006	0.40 J	M08-01	2002 02 (Summer)
Trichloroethene (UG/L)	1	6	0.30 J	M08-07	28 Mar 2007	--	NA	NA
Ethylbenzene (UG/L)	1	6	2.8	M08-06	05 Oct 2006	8.3 J	M08-05	2002 03 (Fall)
cis-1,2-Dichloroethene (UG/L)	1	6	1.1	M08-01	27 Mar 2007	2.3	M08-01	2003 04 (Winter)
M,P-xylenes (UG/L)	1	6	1.3	M08-06	05 Oct 2006	1.6 J	M08-05	2002 03 (Fall)
O-xylene (UG/L)	2	6	1.8	M08-06	05 Oct 2006	1.2	M08-01	2006 01 (Spring)
Naphthalene (UG/L)	2	6	30.0	M08-06	05 Oct 2006	120 J	M08-05	2002 03 (Fall)
Isopropylbenzene (UG/L)	2	6	0.50	M08-03	05 Oct 2006	0.80	M08-03	2005 02 (Summer)
n-Propylbenzene (UG/L)	1	6	0.080 J	M08-03	05 Oct 2006	0.10 J	M08-03	2005 02 (Summer)
1,2,4-Trimethylbenzene (UG/L)	2	6	0.30 J	M08-06	05 Oct 2006	0.50 J	M08-05	2002 03 (Fall)
1,3,5-Trimethylbenzene (UG/L)	1	6	0.10 J	M08-06	05 Oct 2006	0.10 J	M08-01	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (First Water-Bearing Zone)								
Organochlorine Pesticides								
alpha-BHC (UG/L)	1	6	0.0050 J	M08-03	05 Oct 2006	0.0094 J	M08-03	2002 04 (Winter)
beta-BHC (UG/L)	2	6	0.0050 J	M08-03	05 Oct 2006	--	NA	NA
gamma-Chlordane (UG/L)	1	6	0.0030 J	M08-03	05 Oct 2006	--	NA	NA
Heptachlor epoxide (UG/L)	2	6	0.0070 J	M08-06	05 Oct 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	5	6	7.9	M08-03	27 Mar 2007	16.0	M08-03	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	*1*	*1*	*0.0040 J*	*D08-01*	*27 Mar 2007*	0.0060	D08-01	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	3	6	1.3	M08-06	28 Mar 2007	1.3	M08-06	2006 01 (Spring)
Arsenic (UG/L)	6	6	6.2	M08-06	05 Oct 2006	13.0	M08-01	2005 02 (Summer)
Beryllium (UG/L)	2	6	1.1 J	M08-07	28 Mar 2007	0.097 J	M08-08	2005 02 (Summer)
Cadmium (UG/L)	4	6	0.87 J	M08-07	28 Mar 2007	0.56 J	M08-05	2004 04 (Winter)
Copper (UG/L)	5	6	1.5 J	M08-07	28 Mar 2007	6.0 J	M08-02	2003 02 (Summer)
Lead (UG/L)	1	6	1.0 J	M08-07	28 Mar 2007	2.0 J	M08-01	2005 02 (Summer)
Mercury (UG/L)	2	6	0.23	M08-03	27 Mar 2007	0.12 J	M08-08	2004 02 (Summer)
Nickel (UG/L)	3	6	6.3 J	M08-07	28 Mar 2007	23.0	M08-08	2006 01 (Spring)
Selenium (UG/L)	2	6	0.52 J	M08-06	28 Mar 2007	6.4	M08-03	2002 02 (Summer)
Silver (UG/L)	3	6	0.93 J	M08-07	28 Mar 2007	4.6 J	M08-05	2002 02 (Summer)
Thallium (UG/L)	3	6	0.72 J	M08-03	05 Oct 2006	1.8 J	M08-08	2005 02 (Summer)
Zinc (UG/L)	3	6	9.7 J	M08-05	27 Mar 2007	250 J	M08-05	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (Second Water-Bearing Zone)								
Dissolved Metals								
Arsenic (UG/L)	*1*	*1*	*2.5 J*	*D08-01*	*27 Mar 2007*	*8.5 J*	*D08-01*	*2003 02 (Summer)*
Copper (UG/L)	1	1	0.38 J	D08-01	27 Mar 2007	9.0 J	D08-01	2004 04 (Winter)
Nickel (UG/L)	1	1	30.0	D08-01	27 Mar 2007	53.0	D08-01	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	6	6	270	M08-08	28 Mar 2007	720	M08-03	2004 02 (Summer)
Sulfide (MG/L)	1	6	0.85	M08-03	27 Mar 2007	9.5	M08-03	2003 04 (Winter)
Alkalinity, bicarbonate (MG/L)	6	6	270	M08-08	28 Mar 2007	720	M08-03	2004 02 (Summer)
Nitrate (MG/L)	5	6	0.64	M08-06	28 Mar 2007	1.7	M08-05	2002 02 (Summer)
Nitrite (MG/L)	2	6	0.020 J	M08-06	28 Mar 2007	--	NA	NA
Chloride (MG/L)	6	6	60.0	M08-01	27 Mar 2007	1800	M08-03	2004 02 (Summer)
Sulfate (as SO4) (MG/L)	6	6	47.0	M08-08	28 Mar 2007	148	M08-02	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.3-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 8

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 8 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	*1*	*1*	*640*	*D08-01*	*27 Mar 2007*	640	D08-01	2005 02 (Summer)
Alkalinity, bicarbonate (MG/L)	1	1	640	D08-01	27 Mar 2007	640	D08-01	2005 02 (Summer)
Chloride (MG/L)	1	1	15000	D08-01	27 Mar 2007	16100	D08-01	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	1	1	2100	D08-01	27 Mar 2007	2340	D08-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

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FIGURES

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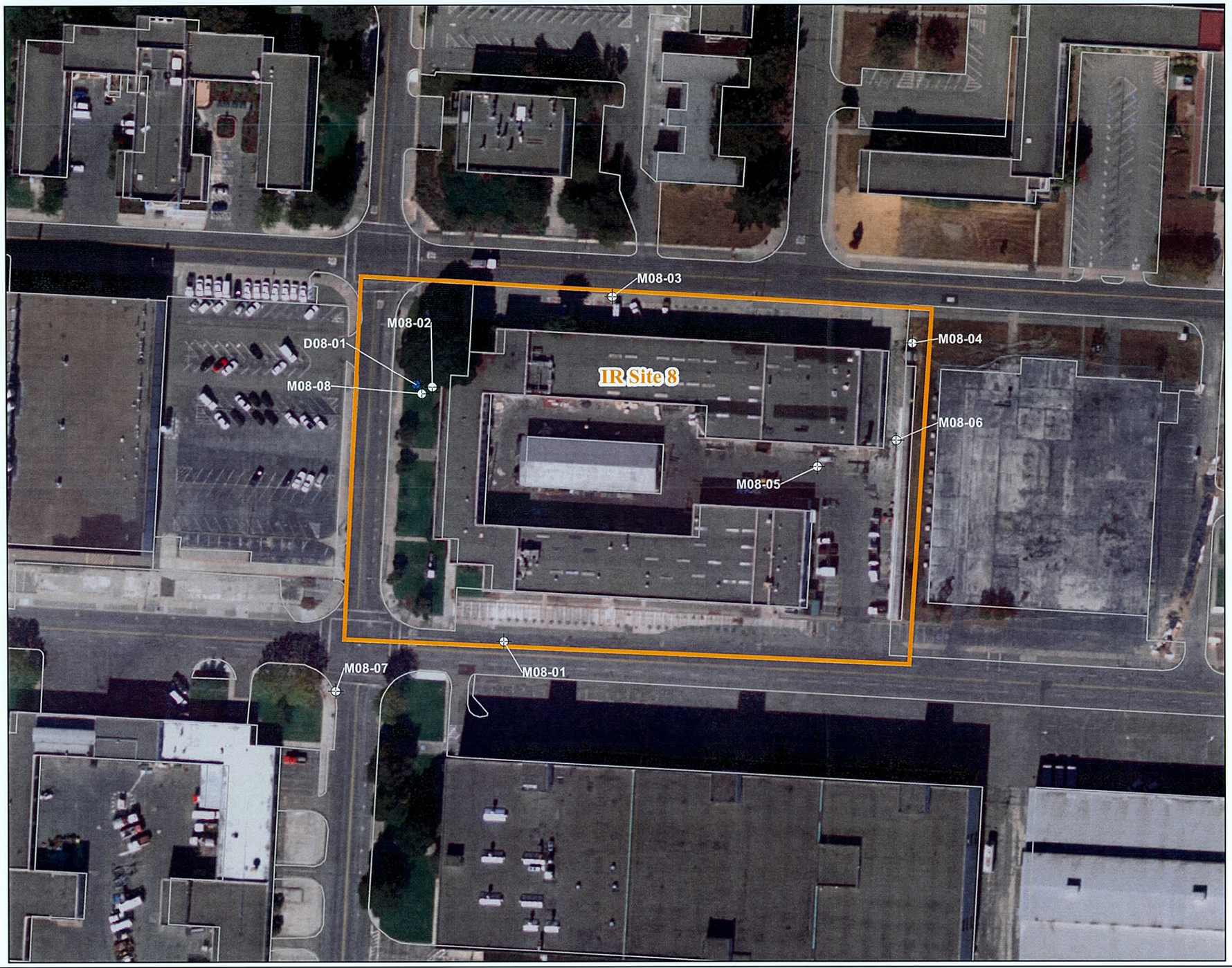

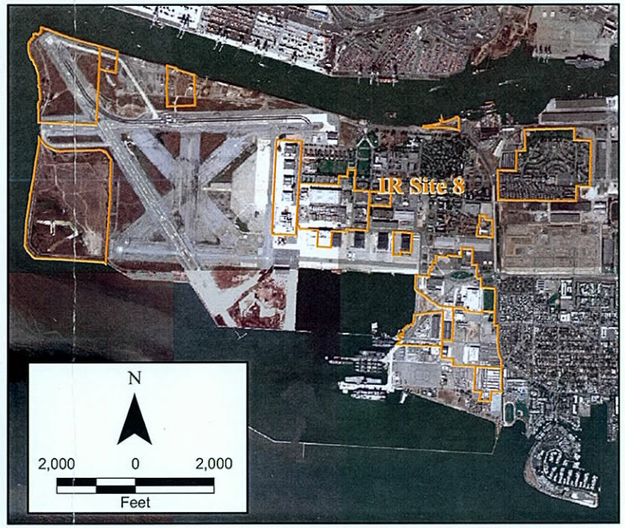

Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

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FIGURE 3.3-1
OPERABLE UNIT 1 - IR SITE 8
SITE AND WELL LOCATION MAP

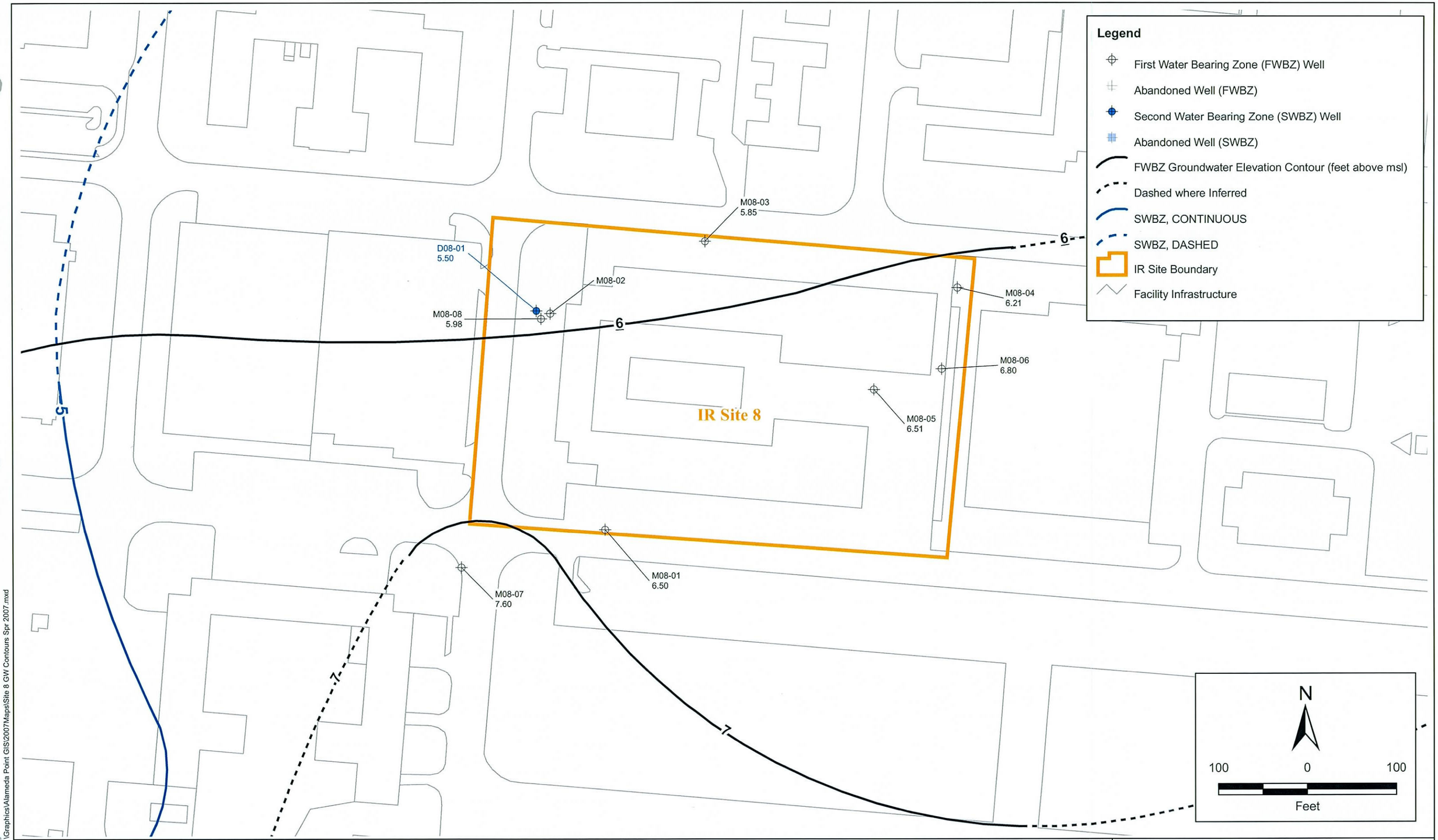

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FIGURE 3.3-2
OPERABLE UNIT 1 - IR SITE 8
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

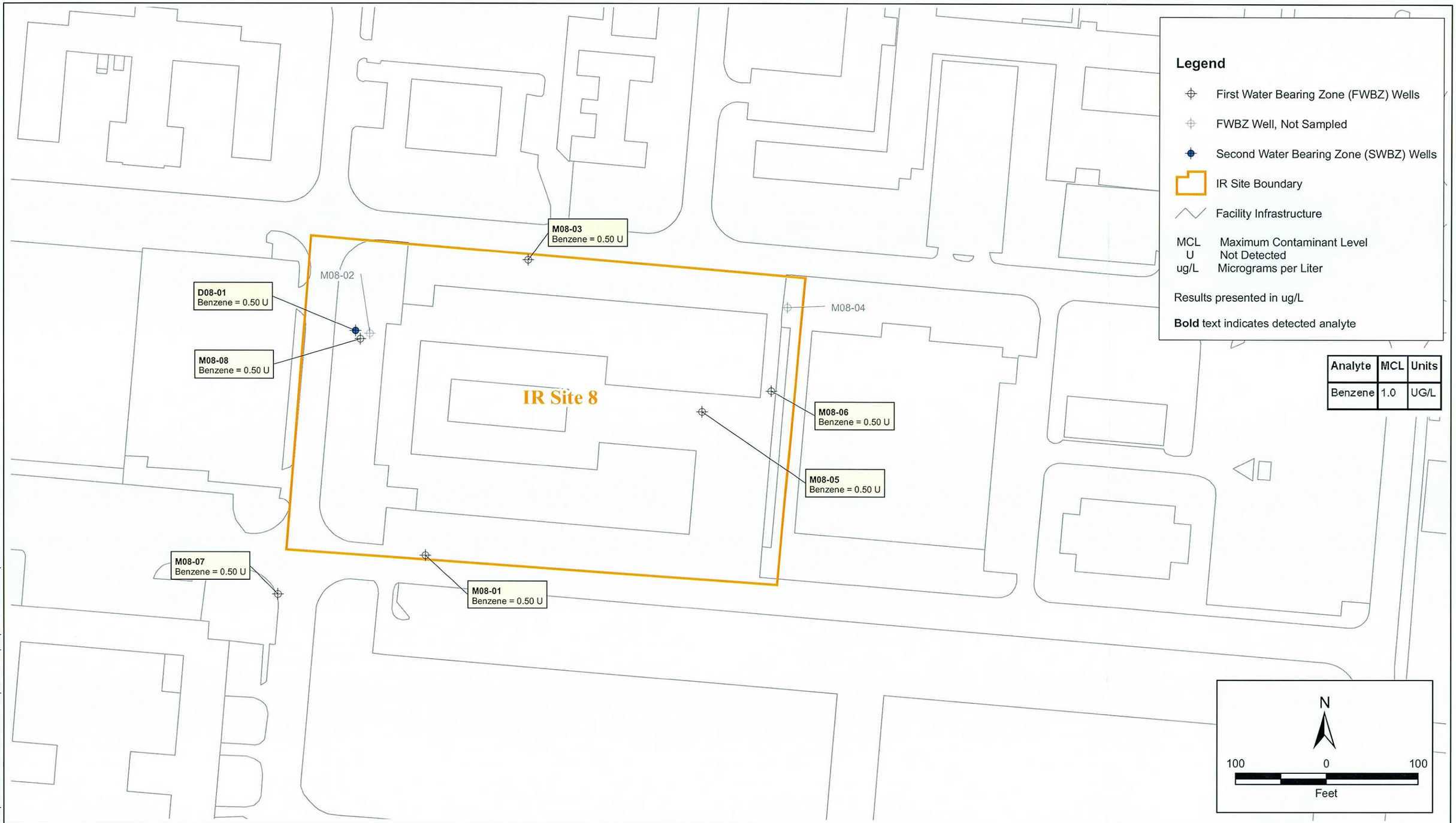

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FIGURE 3.3-3
OPERABLE UNIT 1 - IR SITE 8
GROUNDWATER BENZENE CONCENTRATIONS
IN FWBZ WELLS
SPRING 2007

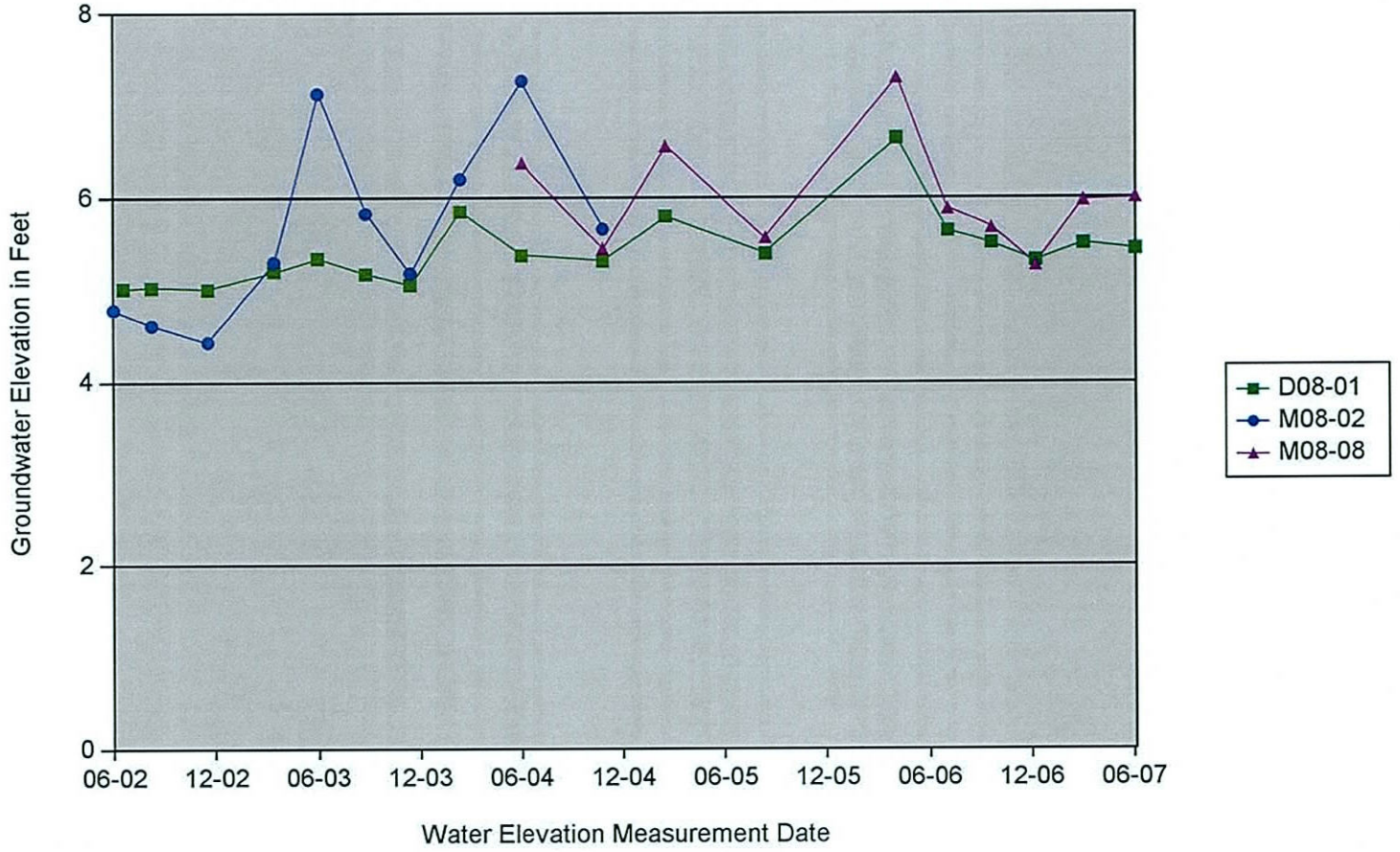

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FIGURE 3.3-4
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 8:
FWBZ WELL M08-02 AND SWBZ WELL D08-01
SUMMER 2002 THROUGH SPRING 2007

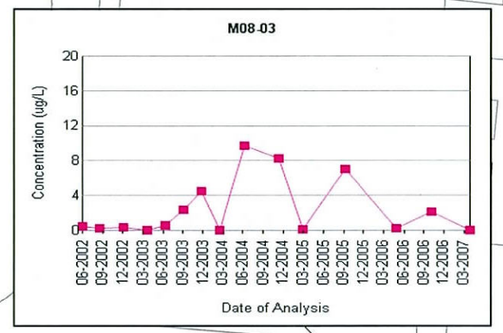
2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 3.3-4.ai

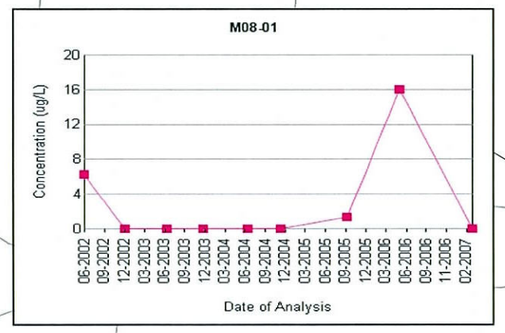
Legend

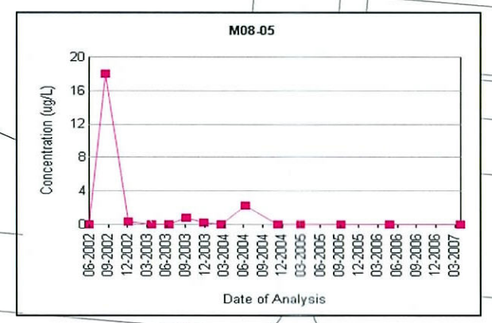
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

Benzene

Analyte	MCL	Units
Benzene	1.0	UG/L







D08-01
M08-02
M08-04
M08-06
M08-08
M08-07
IR Site 8

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Feet

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FIGURE 3.3-5
OPERABLE UNIT 1 - IR SITE 8
GROUNDWATER CONCENTRATIONS OF BENZENE
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

3.4 INSTALLATION RESTORATION SITE 14

IR Site 14, the Fire Training Area, is located in the northwestern section of Alameda Point (Figure 1-2), north of former Runway 7/25 and adjacent to the Oakland Inner Harbor. The site is primarily open space that historically was used for equipment storage of airfield-related materials, with the northwestern portion of the site used for fire-fighter training activities. The site was originally designated an IR site based on concerns related to the fire training activities; petroleum-related constituents in soil were the primary concern. Subsequent investigations revealed the presence of chlorinated solvents in groundwater, the current focus of the groundwater investigation at the site (Tetra Tech, 1999b).

Potential sources of contamination at IR Site 14 include:

- Former Fire Training Area
- Former UST FS-1
- Building 528, above-ground storage tank at the northwest corner of Building 528, possible spills along storm drain
- Resource Conservation and Recovery Act (RCRA) Generator Accumulation Points 9 and 11
- Ordnance storage at Buildings 388, 120, 121, and 122
- Spills in open areas adjacent to Generator Accumulation Point 9
- Suspected (early) Fire Training Area located near the southern extent of IR Site 14 (the known current location).

The Fire Training Area was constructed between 1973 and 1979 and included a concrete pad surrounded on three sides by an earthen berm. ANSULITE® fire-fighting foam, carbon dioxide, potassium chloride, and Purple K (a dry chemical extinguishing agent) were used to extinguish training fires. A sump was located in the northeastern corner of the concrete pad within the Fire Training Area. The sump was apparently used for the collection of runoff from fire training activities. The fire department stopped burning in the area circa 1986 (Shaw, 2004). The site layout, showing groundwater monitoring well locations, is presented on Figure 3.4-1.

On July 21, 2003, the California Regional Water Quality Control Board issued a letter stating that "the quality and nature of the groundwater in the first and second water bearing zones

beneath Alameda Point west of Saratoga Street are such that these waters are not potential sources of drinking water pursuant to State Board Resolution No. 88-63 and Regional Board Resolution 89-39." The regulatory agencies for Alameda Point concurred with this RWQCB finding. Therefore, maximum contaminant levels (MCLs) are not applicable as a regulatory limit at IR Site 14. Analytical results are screened against MCLs as a means of comparison only.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 14 included sampling and analysis of two groundwater monitoring wells (two FWBZ wells and no SWBZ wells). Nine additional FWBZ groundwater monitoring wells and two SWBZ wells were used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2006 through Spring 2007 program are listed in Table 3.4-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone, and geologic formation for each well. Non-program wells (i.e., wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 3.4-1.

3.4.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 11 groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling program at IR Site 14. The results are presented along with previously collected water-level data in Table 3.4-2. Groundwater flow direction and gradient are discussed in Section 3.4.4.1, and trends in groundwater elevations are discussed in Section 3.4.4.4.

3.4.2 Analytical Parameters

Groundwater samples collected from monitoring wells at IR Site 14 during the Fall 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- TPH as Diesel, Jet Fuel, and Motor Oil by EPA Method 8015B
- TPH as Gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)

- Field Parameters (measured using portable field instruments).

Table 3.4-1 lists all IR Site 14 groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

3.4.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following subsections, and listed along with previously obtained analytical data in the following tables:

- Table 3.4-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 14, Summer 2002 through Spring 2007."
- Table 3.4-4, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 1 - IR Site 14, Summer 2002 through Spring 2007."
- Table 3.4-5, "Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 14, Summer 2002 through Spring 2007."
- Table 3.4-6, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 14, Summer 2002 through Spring 2007."

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs, even though MCLs are not directly applicable due to the location of this site to the west of Saratoga Street. Analytical results in the tables are also compared to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

3.4.4 Discussion of Results

Concentrations of extractable TPH (predominantly diesel-range hydrocarbons) and chlorinated hydrocarbons (cis-1,2-DCE, 1,1-dichloroethane [1,1-DCA], vinyl chloride, and related compounds) have been commonly detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ at IR Site 14. Groundwater concentrations of predominantly diesel-range hydrocarbons exceeding 100 µg/L were reported from one well (well M101-A) in the current sampling year (Table 3.4-3).

The following chlorinated hydrocarbons were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 to Spring 2007 sampling year: **cis-1,2-DCE, 1,1-DCA, and vinyl chloride** (Table 3.4-3). The distribution of chlorinated hydrocarbons in FWBZ groundwater monitoring wells at IR Site 14 is discussed more fully in Section 3.4.4.2.

Low concentrations of TPH quantified as diesel, motor oil, and/or gasoline were detected in groundwater collected from two monitoring wells screened in the FWBZ during the current sampling year (Table 3.4-3). The maximum reported concentration was 160 µg/L diesel at M101 A).

Arsenic was detected above its MCL of 10 µg/L, at a maximum concentration of 16.0 µg/L in well M101-A during the Fall 2006 event, and at 12.0 µg/L in the Spring 2007 sampling event (Table 3.4-4). All arsenic concentrations detected during the current sampling year were below the background value for arsenic (20.7 µg/L).

3.4.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 3.4-2 for the Spring 2007 event. Groundwater flow direction in the FWBZ at IR Site 14 is towards the north-northeast (toward the Oakland Inner Harbor) at an average gradient of approximately 0.008 feet per foot. An informal tidal study conducted in March 2006 suggested that well M14-01 (located 60 feet from the shoreline) was tidally influenced, while well M14-03 (located 150 feet from the shoreline) was not tidally influenced. It thus appears that tidal influence at IR Site 14 extends inland to a point somewhere between 60 and 150 feet from the shoreline.

Groundwater flow direction in the SWBZ at IR Site 14 is towards the north at a gradient of approximately 0.005 feet per foot. Water levels in the SWBZ wells at IR Site 14 are generally one to two feet lower than levels in nearby FWBZ wells, indicating an overall downward vertical gradient. Vertical gradients are discussed more fully in Section 3.4.4.4.

3.4.4.2 Groundwater Contaminant Distribution

Petroleum hydrocarbons (total TPH) have been found at concentrations greater than 1,000 µg/L in all FWBZ wells, but only for one or two of the 12 sampling events at any individual well. In contrast, chlorinated hydrocarbons have had a consistent occurrence and distribution in IR Site 14 groundwater. Concentrations of chlorinated hydrocarbons are displayed on the posting map presented as Figure 3.4-3. Vinyl chloride, cis-1,2-DCE, and 1,1-DCA were detected at concentrations above their respective MCLs in one of the two wells sampled (M101-A) during the Fall 2006 and Spring 2007 sampling events. No exceedances of MCLs were reported for well M14-01, located near the Oakland Inner Harbor, although cis-1,2-DCE was detected at low concentrations in this well. These results are typical for the two wells sampled, although the concentrations of these chlorinated VOCs are generally lower than those previously reported for well M101-A, which is located in the upgradient part of the site; results from downgradient well M14-01 are typical of results for the past five years (Table 3.4-3).

3.4.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 3.4-7, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 3.4-7 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte.

In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those found in previous sampling years, with the following exceptions:

- FWBZ concentrations of TPH diesel (4,900 µg/L), jet fuel (1,200 µg/L), and motor oil (1,100 µg/L) detected during the Fall/Winter 2004 sampling event were the highest concentrations detected at IR Site 14 to date. The current year's maximum detected concentrations of TPH diesel, jet fuel, and motor oil in FWBZ groundwater were significantly lower (160, 78, and 83J µg/L, respectively) than those detected during the 2004 sampling event (Table 3.4-7).
- Concentrations of organic compounds for the 2006-2007 event were lower than historic concentrations by an order of magnitude.

3.4.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2007 Annual Report:

- Figure 3.4-4a, "Trends in Groundwater Elevations at Operable Unit 1- IR Site 14: North-South Oriented FWBZ Wells."
- Figure 3.4-4b, "Trends in Groundwater Elevations at Operable Unit 1 - IR Site 14: Paired Wells (FWBZ Well M101-A and SWBZ Well M101-C)."

The following observations can be made from viewing the hydrographs:

- Groundwater elevations for FWBZ and SWBZ wells at IR Site 14 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in winter and spring, and seasonal lows in late summer and fall (Figures 3.4-4a and 3.4-4b).
- Figure 3.4-4b indicates a consistent downward vertical gradient between the co-located FWBZ and SWBZ wells; i.e., groundwater elevations are typically 1 to 2 feet higher in FWBZ well M101-A than in nearby SWBZ well M101-C. A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the base of the FWBZ.
- In general, the hydrographs for IR Site 14 wells indicate a slight overall increase in groundwater elevations over time; i.e., seasonal elevations for most wells have been somewhat higher than in 2002 and 2003.

3.4.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of chlorinated hydrocarbons (predominantly cis-1,2-DCE, 1,1-DCA, and vinyl chloride) have been consistently detected in groundwater at IR Site 14 since monitoring was initiated in Summer 2002; diesel-range TPH has been intermittently detected. Trends in groundwater concentrations of selected constituents over time are shown on Figure 3.4-5. In the two wells showing discernible trends (M101-A and M113-A), the concentrations of these contaminants have been decreasing over time during the monitoring program.

Concentrations of chlorinated hydrocarbons above MCLs have persisted over time, with vinyl chloride and other compounds significantly above MCLs at well M101-A (Figure 3.4-5).

3.4.5 Conclusions and Recommendations

Routine sampling under the BGMP will be suspended at IR Site 14 beginning with the Spring 2008 sampling event, as remedial action for the site is scheduled to commence during Spring 2008. The IR Site 14 ROD was approved on January 31, 2007, and vinyl chloride is identified as the primary contaminant of concern in groundwater. The plume was defined during the data gap investigation (in Spring 2007) and pilot testing was conducted in Fall 2007.

Routine sampling under the BGMP will be suspended at IR Site 14 beginning with the Spring 2008 sampling event as remedial action for the site is scheduled to commence during Spring 2008

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TABLES

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SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 3.4-1
Groundwater Monitoring Summary, Operable Unit 1-IR Site 14, Summer 2006 through Spring 2007

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells												
First	M101-A	Fill	2.5 - 12.5	S	S	S	S[1]	A	A	A	A	A
	M14-01	Fill-BSU	4 - 14	S	S	S	S[1]	A	A	A	A	A
Non-Program Wells, Water Level Only												
First	M112-A	Fill	2.5 - 12.5	-	-	-	-	-	-	-	-	-
	M113-A	Fill-BSU	2 - 12	-	-	-	-	-	-	-	-	-
	M114-A	Fill	2 - 12	-	-	-	-	-	-	-	-	-
	M14-02	Fill-BSU	4 - 14	-	-	-	-	-	-	-	-	-
	M14-03	Fill-BSU	4 - 14	-	-	-	-	-	-	-	-	-
	FS1MJ-MW-3	Fill-BSU	2.3 - 10.2	-	-	-	-	-	-	-	-	-
Second	D14-01	Merritt-USA	65 - 75	-	-	-	-	-	-	-	-	-
	M101-C	BSU	48-5 - 58.5	-	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

\- Well not in analytical program.

[1] Priority Pollutant metals only

Fill - Artificial Fill

BSU - Bay Sediment Unit

USA - Upper San Antonio Formation

Merritt - Merritt Sand

FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method

RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 3.4-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 14,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	FS1MJ-MW-3 ‡	9.4	8.95	03/12/07	3.04	5.91
		9.4	8.95	12/13/06	1.88	7.07
		9.4	8.95	09/27/06	5.01	3.94
		9.4	8.95	07/11/06	5.82	3.13
		9.4	8.95	08/22/05	4.65	4.30
		9.4	8.95	02/28/05	2.21	6.74
		9.4	8.95	11/09/04	2.91	6.04
		9.4	8.95	06/15/04	5.64	3.31
		9.4	8.95	03/02/04	2.80	6.15
		9.4	8.95	12/03/03	4.50	4.45
		9.4	8.95	09/16/03	5.11	3.84
		9.4	8.95	06/24/03	4.80	4.15
		9.4	8.95	04/08/03	3.92	5.03
First	M101-A	9.5	9.45 *	03/06/07	1.21	8.24
		9.5	9.45 *	12/13/06	1.80	7.65
		9.5	9.45 *	09/25/06	4.19	5.26
		9.5	9.45 *	07/11/06	3.74	5.71
		9.5	9.45 *	04/11/06	0.73	8.72
		9.5	9.45 *	08/22/05	4.04	5.41
		9.5	9.45 *	02/28/05	0.03	9.42
		9.5	9.45 *	11/09/04	2.09	7.36
		9.5	9.45 *	06/15/04	3.91	5.54
		9.5	9.45 *	03/02/04	0.55	8.90
		9.5	9.45 *	12/03/03	3.63	5.82
		9.5	9.45 *	09/16/03	4.34	5.11
		9.5	9.45 *	06/24/03	3.65	5.80
		9.5	9.45 *	04/08/03	2.50	6.95
		9.5	9.45 *	12/12/02	3.66	5.79
		9.5	9.45 *	09/12/02	4.35	5.10
		9.5	9.45 *	06/27/02	3.90	5.55
First	M112-A	10.2	9.91 *	03/06/07	2.08	7.83
		10.2	9.91 *	12/13/06	NM	NC
		10.2	9.91 *	09/25/06	4.84	5.07
		10.2	9.91 *	07/11/06	4.32	5.59
		10.2	9.91 *	04/11/06	1.00	8.91
		10.2	9.91 *	08/22/05	4.64	5.27
		10.2	9.91 *	02/28/05	0.80	9.11
		10.2	9.91 *	11/09/04	4.04	5.87
		10.2	9.91 *	06/15/04	4.48	5.43
		10.2	9.91 *	03/02/04	1.14	8.77
		10.2	9.91 *	12/03/03	4.57	5.34
		10.2	9.91 *	09/16/03	4.91	5.00
		10.2	9.91 *	06/24/03	4.20	5.71
		10.2	9.91 *	04/08/03	3.22	6.69
		10.2	9.91 *	12/20/02	0.21§	9.70
		10.2	9.91 *	09/12/02	4.94	4.97
		10.2	9.91 *	06/27/02	4.45	5.46

Table 3.4-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 14,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M113-A	9.2	8.83 *	03/06/07	1.05	7.78
		9.2	8.83 *	12/13/06	1.92	6.91
		9.2	8.83 *	09/25/06	3.84	4.99
		9.2	8.83 *	07/11/06	3.35	5.48
		9.2	8.83 *	04/11/06	0.13	8.70
		9.2	8.83 *	08/22/05	3.59	5.24
		9.2	8.83 *	02/28/05	0.00 †	8.83
		9.2	8.83 *	11/09/04	2.76	6.07
		9.2	8.83 *	06/15/04	3.46	5.37
		9.2	8.83 *	03/02/04	0.05	8.78
		9.2	8.83 *	12/03/03	3.30	5.53
		9.2	8.83 *	09/16/03	3.95	4.88
		9.2	8.83 *	06/24/03	3.26	5.57
		9.2	8.83 *	04/08/03	2.25	6.58
		9.2	8.83 *	12/23/02	0.00 §	8.83
		9.2	8.83 *	09/12/02	3.95	4.88
		9.2	8.83 *	07/01/02	3.44	5.39
First	M114-A	9.0	8.71 *	03/06/07	0.30	8.41
		9.0	8.71 *	12/13/06	NM	NC
		9.0	8.71 *	09/25/06	3.25	NC
		9.0	8.71 *	07/11/06	2.84	5.87
		9.0	8.71 *	04/11/06	NM	NC
		9.0	8.71 *	08/22/05	3.10	5.61
		9.0	8.71 *	02/28/05	Well Submerged	NC
		9.0	8.71 *	11/09/04	1.19	7.52
		9.0	8.71 *	06/15/04	2.95	5.76
		9.0	8.71 *	03/02/04	0.00 †	8.71
		9.0	8.71 *	12/03/03	2.68	6.03
		9.0	8.71 *	09/16/03	3.42	5.29
		9.0	8.71 *	06/24/03	2.73	5.98
		9.0	8.71 *	04/08/03	1.31	7.40
		9.0	8.71 *	12/12/02	2.65	6.06
		9.0	8.71 *	09/12/02	3.47	5.24
		9.0	8.71 *	06/26/02	3.00	5.71
First	M14-01	8.9	8.47 *	03/12/07	5.46	3.01
		8.9	8.47 *	12/13/06	5.02	3.45
		8.9	8.47 *	09/27/06	4.78	3.69
		8.9	8.47 *	07/11/06	6.68	1.79
		8.9	8.47 *	04/17/06	5.40	3.07
		8.9	8.47 *	08/22/05	4.80	3.67
		8.9	8.47 *	02/28/05	3.00	5.47
		8.9	8.47 *	11/09/04	3.39	5.08
		8.9	8.47 *	06/15/04	4.55	3.92
		8.9	8.47 *	03/02/04	3.80	4.67
		8.9	8.47 *	12/03/03	5.02	3.45
		8.9	8.47 *	09/16/03	5.15	3.32
		8.9	8.47 *	06/24/03	4.45	4.02

Table 3.4-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 14,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M14-01	8.9	8.47 *	04/08/03	4.80	3.67
		8.9	8.47 *	12/20/02	1.41§	7.06
		8.9	8.47 *	09/12/02	3.59	4.88
		8.9	8.47 *	06/26/02	4.30	4.17
First	M14-02	9.3	8.91 *	03/12/07	5.25	3.66
		9.3	8.91 *	12/13/06	4.82	4.09
		9.3	8.91 *	09/27/06	5.01	3.90
		9.3	8.91 *	07/11/06	6.31	2.60
		9.3	8.91 *	04/17/06	2.75	6.16
		9.3	8.91 *	08/22/05	5.92	2.99
		9.3	8.91 *	02/28/05	3.20	5.71
		9.3	8.91 *	11/09/04	3.20	5.71
		9.3	8.91 *	06/15/04	6.48	2.43
		9.3	8.91 *	03/02/04	3.95	4.96
		9.3	8.91 *	12/03/03	5.00	3.91
		9.3	8.91 *	09/16/03	5.41	3.50
		9.3	8.91 *	06/24/03	5.05	3.86
		9.3	8.91 *	04/08/03	4.92	3.99
		9.3	8.91 *	12/20/02	1.79§	7.12
		9.3	8.91 *	09/12/02	4.33	4.58
		9.3	8.91 *	06/27/02	6.50	2.41
First	M14-03	10.3	9.91 *	03/06/07	2.85	7.06
		10.3	9.91 *	12/13/06	4.73	5.18
		10.3	9.91 *	09/25/06	6.25	3.66
		10.3	9.91 *	07/11/06	4.78	5.13
		10.3	9.91 *	04/17/06	1.95	7.96
		10.3	9.91 *	08/22/05	5.41	4.50
		10.3	9.91 *	02/28/05	1.65	8.26
		10.3	9.91 *	11/09/04	4.97	4.94
		10.3	9.91 *	06/15/04	5.01	4.90
		10.3	9.91 *	03/02/04	2.00	7.91
		10.3	9.91 *	12/03/03	5.56	4.35
		10.3	9.91 *	09/16/03	6.02	3.89
		10.3	9.91 *	06/24/03	4.65	5.26
		10.3	9.91 *	04/08/03	3.90	6.01
		10.3	9.91 *	12/20/02	3.05§	6.86
		10.3	9.91 *	09/12/02	5.76	4.15
		10.3	9.91 *	06/27/02	6.00	3.91
Second	D14-01	10.2	9.99 *	03/06/07	5.05	4.94
		10.2	9.99 *	12/13/06	NM	NC
		10.2	9.99 *	09/25/06	5.64	4.35
		10.2	9.99 *	07/11/06	7.75	2.24
		10.2	9.99 *	04/11/06	5.14	4.85
		10.2	9.99 *	08/22/05	6.85	3.14
		10.2	9.99 *	02/28/05	4.50	5.49
		10.2	9.99 *	11/09/04	5.47	4.52
		10.2	9.99 *	06/15/04	7.28	2.71

Table 3.4-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 14,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D14-01	10.2	9.99 *	03/02/04	5.10	4.89
		10.2	9.99 *	12/03/03	5.85	4.14
		10.2	9.99 *	09/16/03	5.92	4.07
		10.2	9.99 *	06/24/03	6.00	3.99
		10.2	9.99 *	04/08/03	6.22	3.77
		10.2	9.99 *	12/20/02	4.47§	5.52
		10.2	9.99 *	09/12/02	4.97	5.02
		10.2	9.99 *	07/15/02	7.52	2.47
Second	M101-C	9.7	9.43 *	03/06/07	2.25	7.18
		9.7	9.43 *	12/13/06	3.46	5.97
		9.7	9.43 *	09/25/06	4.73	4.70
		9.7	9.43 *	07/11/06	4.45	4.98
		9.7	9.43 *	04/11/06	1.79	7.64
		9.7	9.43 *	08/22/05	5.02	4.41
		9.7	9.43 *	02/28/05	2.07	7.36
		9.7	9.43 *	11/09/04	4.37	5.06
		9.7	9.43 *	06/15/04	5.05	4.38
		9.7	9.43 *	03/02/04	1.47	7.96
		9.7	9.43 *	12/03/03	4.52	4.91
		9.7	9.43 *	09/16/03	5.85	3.58
		9.7	9.43 *	06/24/03	5.81	3.62
		9.7	9.43 *	04/08/03	3.55	5.88
		9.7	9.43 *	12/12/02	4.62	4.81
		9.7	9.43 *	09/12/02	4.73	4.70
		9.7	9.43 *	07/15/02	4.71	4.72

Notes:

BTOC = below top of casing

msl = mean sea level

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 3.4-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M101-A	2007 01 (Spring)	160	78.0	83.0 J	< 44.0	321	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 13.0	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	1.3 J	1.6 J	< 3.1	7.5	0.60 J	18.0	< 3.1	< 3.1	4.7
		2006 03 (Fall)	< 64.0	76.0	< 300	120	196	< 1.0	< 1.0	0.90 J	< 1.0	< 1.0	< 4.0	< 1.0	0.20 J	< 1.0	< 1.0	0.20 J	0.80 J	1.1	0.10 J	11.0	0.90 J	80.0	< 1.0	< 1.0	22.0
		2006 01 (Spring)	69.0	< 50.0	98.0 J	75.0	242	0.10 J	< 0.50	0.10 J	< 0.50	0.070 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	1.9	< 0.50	16.0	1.0	31.0	< 0.50	0.80	47.0
		2005 02 (Summer)	< 50.0	< 50.0	180 J	38.0 J	218	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	0.30 J	< 0.50	1.1	0.40 J	12.0	< 0.50	0.20 J	0.90
		2004 04 (Winter)	4900	1200	1100	160	7360	0.20 J	2.8	1.8	1.1	3.4	0.90 J	< 0.50	< 0.50	0.20 J	< 0.50	0.20 J	2.3	2.6	< 0.50	27.0	1.3	65.0	< 0.50	2.7	51.0
		2004 02 (Summer)	< 50.0	66.0	< 300	160	226	0.20 J	1.2	0.80	0.50 J	1.8	0.30 J	< 0.50	< 0.50	0.20 J	< 0.50	0.10 J	0.70	0.40 J	< 0.50	8.7	0.80	63.0	< 0.50	0.40 J	18.0
		2003 04 (Winter)	< 190	< 280	< 190	48.0 J	48.0	0.20 J	0.60 J	1.3	< 1.0	1.1	< 2.0	< 5.0	< 1.0	0.24 J	< 1.0	< 1.0	1.2	0.74 J	< 1.0	2.9	1.3	37.0	< 0.50	0.91 J	41.0
		2003 02 (Summer)	810	< 280	< 190	180	990	< 0.50	7.1	1.7	0.97 J	8.0	2.3	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.72 J	0.46 J	< 1.0	35.0	1.5	61.0	< 0.50	1.7	200
		2002 04 (Winter)	< 50.0	< 50.0	< 300	33.0 J	33.0	< 0.20 J	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70 J	3.3	< 0.20 J	17.0	1.0	9.1	< 0.50	< 0.50	52.0
		2002 02 (Summer)	64.0	110	60.0 J	540	774	< 0.50	12.0	3.4	3.0	11.0	2.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	1.1	0.50 J	270	1.9	150	< 0.50	5.0	300
	M112-A	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.30 J	< 0.50	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	610	< 50.0	970	< 50.0	1580	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	0.30 J	< 0.50	1.3 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1100	< 50.0	680	< 50.0	1780	0.30 J	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	130	< 1.3	0.90 J	< 1.3	< 1.3	11.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	5.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	84.0	< 1.0	0.31 J	< 0.50	< 1.0	3.4
		2003 03 (Fall)	100 J	< 290	210	< 50.0	310	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	40.0	< 1.0	< 1.0	< 0.50	< 1.0	1.6
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	3.4	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.60 J	< 0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	0.50	< 0.50	72.0	< 0.50	0.40 J	< 0.50	< 0.50	7.4
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	35.0	< 0.50	0.20 J	0.10 J	< 0.50	1.1
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	7.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M113-A	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5	< 0.50	4.6	< 0.50	< 0.50	7.4
		2005 01 (Spring)	1000	98.0	720	< 50.0	1820	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.5 J	< 0.50	0.60 J	< 0.50	< 0.50	6.2 J
		2004 04 (Winter)	2400	260	800	< 50.0	3460	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.8	0.20 J	3.2	< 0.50	< 0.50	11.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.5	< 0.50	3.9	< 0.50	< 0.50	15.0
		2004 01 (Spring)	220	< 280	160 J	< 50.0	380	1.4	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 5.0	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.7	< 1.0	3.0	< 0.50	< 1.0	32.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M113-A	2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.21 J	2.9	< 0.50	< 1.0	4.1
		2003 03 (Fall)	150 J	< 290	150 J	< 50.0	300	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	4.9	< 0.50	< 1.0	10.0
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	0.91	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.9	< 1.0	3.6	< 0.50	< 1.0	17.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	20.0 J	20.0	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	1.9	< 0.50	3.6	< 0.50	< 0.50	15.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.3	< 0.50	3.2	< 0.50	< 0.50	36.0
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.10 J	4.7	< 0.50	< 0.50	11.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.9	< 0.50	6.0	< 0.50	< 0.50	31.0
	M114-A	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	640	< 50.0	610	< 50.0	1250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	410	< 50.0	460	< 50.0	870	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0 J	< 50.0 J	< 300 J	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 03 (Fall)	100 J	< 290	160 J	< 50.0	260	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	21.0 J	21.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M14-01	2007 01 (Spring)	21.0 J	< 50.0	< 300	16.0 J	37.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.10	< 0.50	< 0.50	< 0.50	2.0	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.6	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	78.0	60.0	< 300	< 50.0	138	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.080 J	< 0.50	1.8	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.2	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	2100	440	720	< 50.0	3260	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1800	210	580	< 50.0	2590	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.0	< 0.50	0.60	< 0.50	< 0.50	0.20 J
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	180 J	< 280	< 190	< 50.0	180	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0	0.37 J	< 0.50	< 1.0	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M14-01	2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	0.35 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	250	< 290	130 J	< 50.0	380	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0	0.46 J	< 0.50	< 1.0	0.30 J
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	2.2	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	19.0 J	19.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	2.6	< 0.50	0.50	< 0.50	< 0.50	0.10 J
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	1.3	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50
	M14-02	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	750	< 50.0	550	< 50.0	1300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	900	52.0	600	< 50.0	1550	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M14-03	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	570	< 50.0	600	< 50.0	1170	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	830	< 50.0	520	< 50.0	1350	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	100 J	< 290	170 J	< 50.0	270	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M14-03	2003 01 (Spring)	< 50.0	< 50.0	230 J	< 50.0	230	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D14-01	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	150 J	< 50.0	150	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M101-C	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	52.0	< 50.0	< 300	< 50.0	52.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	95.0	< 50.0	110 J	< 50.0	205	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	240	< 280	230	< 50.0	470	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 02 (Summer)	< 200	< 300 UJ	< 200	< 50.0	< 300	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M101-C	2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M101-A	2007 01 (Spring)	< 0.93	12.0	-	< 2.0	0.94 J	3.3 J	-	1.4 J	< 3.0	-	< 0.20	-	6.8 J	< 5.0	< 5.0	< 5.0	-	13.0 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	16.0	-	< 2.0	< 5.0	< 10.0	-	-	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	**64.0**	-	-	-	-	-	-
		2006 01 (Spring)	0.49 J	< 500	-	< 200	< 500	< 500	-	< 500	0.14 J	-	< 0.20	-	< 500	< 500	< 500	< 500	-	< 2000	-	-	-	-	-	-
		2005 02 (Summer)	0.26 J	11.0	230	< 2.0	< 5.0	3.1 J	0.19 J	0.51 J	< 3.0	830 J	< 0.20	< 20.0	2.1 J	1.7 J	< 5.0	< 5.0	3.0 J	9.0 J	< 100	2800	80.0	46.0	29.0 J	790
		2005 01 (Spring)	1.1	18.0	170	< 2.0	< 5.0	3.9 J	0.67 J	3.8 J	< 3.0	1200	< 0.20	10.0 J	6.4 J	3.5 J	< 5.0	< 5.0	2.5 J	13.0 J	< 100	3900	140	57.0	19.0	340
		2004 04 (Winter)	0.49 J	**21.0**	320	< 2.0	< 5.0	4.2 J	0.88 J	3.7 J	0.33 J	**2100**	< 0.20	4.5 J	7.2 J	5.4	< 5.0	< 5.0	3.7 J	14.0 J	27.0 J	6000	120	55.0	26.0	420
		2004 02 (Summer)	< 1.0	11.0	260	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 1.0	1200	< 0.20	< 20.0	< 20.0	1.5	< 5.0	< 1.0 J	6.4 J	14.0 J	< 50.0	5600	130	55.0	28.0	600
		2004 01 (Spring)	< 5.0	**27.1 J**	215	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1580	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	19.7 J	< 200	**7330**	126	59.9	25.1 J	429
		2003 04 (Winter)	< 5.0	17.9 J	309	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1780**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	**650**	< 200	3580	87.4 J	55.3 J	34.7 J	573 J
		2003 03 (Fall)	< 5.0	13.2 J	392	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	1370	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	2.4 J	5.6 J	< 200	2270	91.7	64.7	49.0 J	1020
		2003 02 (Summer)	< 50.0	16.7 J	464	< 4.0	< 5.0	1.9 J	< 10.0	< 10.0	< 10.0	**2090 J**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	11.8 J	28.5 J	4400	118 J	66.6 J	36.2 J	707 J
		2003 01 (Spring)	< 1.0	18.0	390	< 2.0	< 5.0	3.1 J	< 10.0	1.5 J	< 3.0	**2300**	< 0.20	2.0 J	2.3 J	< 5.0	< 5.0	< 1.0	1.7 J	7.1 J	4.9 J	**7000**	93.0	49.0	28.0	370
		2002 04 (Winter)	< 50.0	9.2	340 J	< 2.0	< 5.0	< 10.0	0.26 J	2.1 J	0.11 J	**2300**	< 0.20	2.2 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	1.3 J	5.9 J	3200 J	98.0	77.0	38.0	660
		2002 03 (Fall)	< 50.0	6.4	260	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	1100	< 0.20	1.8 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	2100	85.0	55.0	39.0	960
		2002 02 (Summer)	0.11 J	13.0	260	< 2.0	< 5.0	2.0 J	0.27 J	0.32 J	< 3.0	**2000**	< 0.20	< 20.0	1.4 J	1.4 J	< 5.0 UJ	< 2.0	1.3 J	< 20.0	< 100	5000	110	54.0 J	32.0	610
	M112-A	2005 02 (Summer)	0.49 J	6.3	68.0	< 2.0	< 5.0	0.92 J	0.29 J	2.2 J	0.25 J	91.0	< 0.20	4.0 J	2.7 J	0.69 J	< 5.0	< 5.0	1.6 J	**57.0**	1.8 J	570	83.0	18.0	11.0	37.0
		2005 01 (Spring)	0.43 J	< 5.0	58.0	< 2.0	< 5.0	< 10.0	0.30 J	4.1 J	< 3.0	43.0	< 0.20	2.9 J	2.8 J	< 5.0	< 5.0	< 5.0	0.97 J	17.0 J	< 100	40.0 J	99.0	17.0	5.2 J	21.0
		2004 04 (Winter)	0.22 J	13.0	62.0	< 2.0	< 5.0	1.2 J	0.21 J	4.4 J	0.27 J	200	< 0.20	0.99 J	2.8 J	< 5.0	< 5.0	0.19 J	4.2 J	6.9 J	< 100	110	47.0	15.0	19.0	120
		2004 02 (Summer)	< 1.0	4.4	74.0	< 2.0	< 5.0	< 10.0	0.096 J	< 10.0	0.51 J	78.0	< 0.20	< 20.0	< 20.0	0.62 J	< 5.0	< 1.0	< 10.0	7.6 J	< 50.0	80.0 J	95.0	19.0	10.0	19.0
		2004 01 (Spring)	< 5.0	< 50.0	70.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	73.3	< 0.40	11.6 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	35.3	< 200	103	111	19.9	6.9 J	17.7
		2003 04 (Winter)	< 5.0	16.3 J	57.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	194	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	118	66.2 J	16.1	15.5	109
		2003 03 (Fall)	< 5.0	14.8 J	65.5 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	< 10.0	204	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 5.0	< 50.0	6.7 J	< 200	240	85.1	20.2	13.6 J	57.9
		2003 02 (Summer)	< 50.0	< 50.0	70.2 J	< 4.0	< 5.0	< 10.0	< 10.0	2.3 J	< 10.0	158	< 0.40 UJ	< 50.0	4.2 J	< 20.0	< 10.0	< 5.0	< 50.0	18.3 J	< 200	84.0 J	95.7	17.4	7.5 J	16.0
		2003 01 (Spring)	< 1.0	< 5.0	86.0	< 2.0	< 5.0	< 10.0	< 10.0	4.2 J	< 3.0	28.0	< 0.20	2.8 J	3.4 J	< 5.0	< 5.0	< 1.0	< 10.0	9.2 J	< 100	270	120	18.0	7.5 J	18.0
		2002 04 (Winter)	0.27 J	8.3	80.0	< 2.0	< 5.0	< 10.0	0.23 J	2.8 J	0.073 J	71.0	< 0.20	2.8 J	3.5 J	< 5.0 UJ	< 5.0	< 2.0	3.3 J	9.2 J	12.0 J	< 290 UJ	72.0	14.0	13.0	120
		2002 03 (Fall)	< 50.0	9.9	74.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	470	< 0.20	2.9 J	2.4 J	< 5.0	< 5.0	< 2.7	< 10.0	< 20.0 UJ	< 100	460	80.0	21.0	12.0	46.0
		2002 02 (Summer)	0.19 J	8.5	74.0	< 2.0	< 5.0	0.35 J	0.74 J	1.2 J	0.036 J	410	< 0.20	< 20.0	3.0 J	< 5.0	< 5.0 UJ	< 2.0	1.0 J	< 20.0	< 100	300	85.0	18.0 J	11.0	17.0
	M113-A	2005 02 (Summer)	0.12 J	1.0 J	17.0	< 2.0	< 5.0	2.4 J	0.27 J	0.50 J	< 3.0	390 J	< 0.20	< 20.0	12.0 J	0.97 J	< 5.0	0.46 J	2.9 J	2.4 J	< 100	1100	110	27.0	24.0 J	260
		2005 01 (Spring)	0.91 J	4.8 J	31.0	0.42 J	< 5.0	1.4 J	0.77 J	3.7 J	< 3.0	120	< 0.20	2.1 J	9.3 J	4.6 J	< 5.0	< 5.0	8.4 J	**260**	< 100	41.0 J	92.0	22.0	8.8	77.0
		2004 04 (Winter)	0.62 J	5.2	25.0	< 2.0	< 5.0	3.0 J	0.47 J	3.0 J	0.23 J	210	< 0.20	3.1 J	17.0 J	< 5.0	< 5.0	< 5.0	7.0 J	13.0 J	6.1 J	190	140	41.0	21.0	270
		2004 02 (Summer)	< 1.0	1.4	17.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	0.073 J	570	< 0.20	< 20.0	14.0 J	0.86 J	< 5.0	< 1.0	< 10.0	14.0 J	6.0 J	1300	130	34.0	27.0	300

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.4-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M113-A	2004 01 (Spring)	< 5.0	< 50.0	34.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	785	< 0.40	< 50.0	18.8 J	< 20.0	< 10.0	< 5.0	< 50.0	**92.3**	< 200	1630	**188**	49.0	24.8 J	305
		2003 04 (Winter)	< 5.0	< 50.0	18.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	251	< 0.40	< 50.0	**25.7**	< 20.0	< 10.0	< 5.0	5.8 J	< 20.0	< 200	243	96.4 J	34.8	25.8	307
		2003 03 (Fall)	< 5.0	< 50.0	16.0 J	< 4.0	< 5.0	3.4 J	< 10.0	< 10.0	< 10.0	301	< 0.40	< 50.0	20.3	3.7 J	< 10.0	< 5.0	3.7 J	2.9 J	< 200	352	88.8	29.7	24.4 J	295
		2003 02 (Summer)	< 50.0	< 50.0	16.8 J	< 4.0	< 5.0	2.0 J	< 10.0	< 10.0	< 10.0	599	< 0.40 UJ	< 50.0	19.9 J	< 20.0	< 10.0	< 5.0	1.7 J	< 20.0	< 200	1300	146	36.9	21.7 J	278
		2002 04 (Winter)	< 50.0	3.3 J	28.0	< 2.0	0.18 J	3.6 J	0.58 J	2.7 J	0.094 J	600 J	< 0.20	3.2 J	19.0 J	0.59 J	< 5.0	< 2.0	5.5 J	**62.0 J**	5.1 J	1400	130	37.0 J	30.0	280
		2002 02 (Summer)	0.089 J	0.83 J	16.0	< 2.0	< 5.0	6.3 J	< 10.0	0.35 J	< 3.0	520	0.065 J	< 20.0	18.0 J	1.9 J	< 5.0	< 2.0	3.5 J	3.6 J	260 J	1200	120	32.0	28.0	310
	M114-A	2005 02 (Summer)	0.10 J	6.2	22.0	< 2.0	< 5.0	1.0 J	0.036 J	0.70 J	< 3.0	91.0 J	< 0.20	5.0 J	1.4 J	0.80 J	< 5.0	< 5.0	2.0 J	19.0 J	< 100	260	12.0	17.0	23.0 J	510
		2005 01 (Spring)	0.38 J	< 100	27.0	0.50 J	< 5.0	1.1 J	0.098 J	< 10.0	< 3.0	130	< 0.20	5.4 J	1.1 J	< 5.0	< 5.0	< 5.0	1.6 J	15.0 J	< 100	290	15.0	21.0	27.0	630
		2004 04 (Winter)	0.12 J	8.6	25.0	< 2.0	< 5.0	1.4 J	0.10 J	0.66 J	0.094 J	100	< 0.20	5.9 J	1.2 J	6.1	< 5.0	< 5.0	4.2 J	7.9 J	7.0 J	270	14.0	18.0	27.0	620
		2004 02 (Summer)	< 1.0	6.0	25.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	0.066 J	100	< 0.20	7.3 J	< 20.0	1.2	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	260	13.0	19.0	28.0	610
		2004 01 (Spring)	< 5.0	6.3 J	30.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	209	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	14.6 J	< 200	407	16.2	19.8	25.5 J	562
		2003 04 (Winter)	< 5.0 UJ	< 50.0	21.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	97.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	227	12.5	16.8	26.6	586
		2003 03 (Fall)	< 5.0	8.9 J	26.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	118	< 0.40	6.5 J	< 20.0	< 20.0	< 10.0	< 5.0	3.0 J	11.0 J	< 200	291	15.3	20.4	29.0 J	612
		2003 02 (Summer)	< 50.0	< 50.0	32.9 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	< 10.0	148	< 0.40 UJ	7.2 J	< 20.0	< 20.0	< 10.0	< 5.0	2.5 J	< 20.0	< 200	294	17.2	23.1	27.9 J	629
		2003 01 (Spring)	< 1.0	7.1	30.0	< 2.0	< 5.0	2.3 J	< 10.0	3.7 J	< 3.0	230	< 0.20	7.2 J	9.9 J	< 5.0	< 5.0	< 1.0	18.0	4.7 J	6.8 J	340	11.0	9.9	17.0 J	390
		2002 04 (Winter)	0.56 J	6.8	26.0	< 2.0	0.071 J	< 10.0	0.83 J	14.0	0.54 J	120 J	< 0.20	6.3 J	8.9 J	< 5.0 UJ	< 5.0	< 2.0	15.0	23.0 J	180	440	10.0	15.0	20.0	190
		2002 03 (Fall)	< 50.0	4.8 J	22.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	95.0	< 0.20	5.4 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 26.0 UJ	< 100	< 250	11.0	14.0	28.0	600
		2002 02 (Summer)	0.057 J	6.3	25.0	< 2.0	< 5.0	1.7 J	0.074 J	0.51 J	< 3.0	86.0	< 0.20	5.4 J	0.69 J	1.9 J	< 5.0	< 2.0	3.0 J	9.0 J	33.0 J	270	12.0	16.0	29.0	690
	M14-01	2007 01 (Spring)	< 0.13	1.0 J	-	< 2.0	< 5.0	< 0.64	-	< 10.0	< 3.0	-	< 0.20	-	1.2 J	< 5.0	< 5.0	< 5.0	-	11.0 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	-	< 3.0	-	0.024 J	-	< 20.0	< 5.0	< 5.0	< 5.0	-	21.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	< 5.0	-	0.46 J	< 5.0	2.0 J	-	0.96 J	< 3.0	-	< 0.20	-	< 20.0	5.9	3.0 J	2.0 J	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.16 J	3.4 J	190	< 2.0	< 5.0	1.3 J	0.49 J	1.4 J	< 3.0	**3000 J**	< 0.20	< 20.0	4.1 J	3.4 J	< 5.0	< 5.0	0.80 J	20.0	< 100	**7200**	**350**	210	55.0 J	1000
		2005 01 (Spring)	0.13 J	< 5.0	130	< 2.0	< 5.0	1.3 J	0.42 J	< 10.0	< 3.0	**3400**	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	0.70 J	15.0 J	< 100	6000	**400**	230	52.0	1100
		2004 04 (Winter)	0.14 J	2.9 J	180	< 2.0	< 5.0	1.7 J	0.55 J	1.4 J	0.27 J	**3200**	< 0.20	0.32 J	3.7 J	< 5.0	< 5.0	< 5.0	2.1 J	10.0 J	5.2 J	**7900**	**400**	240	63.0	1200
		2004 02 (Summer)	< 1.0	2.9	140	< 2.0	< 5.0	< 10.0	0.28 J	< 10.0	0.11 J	**3100**	< 0.20	< 20.0	< 20.0	7.4	< 5.0	< 1.0	< 10.0	7.4 J	< 50.0	2100	**360**	190	55.0	950
		2004 01 (Spring)	< 5.0	< 50.0	91.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3250**	< 1.0	< 50.0	11.7 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**8610**	**430**	332	73.6 J	2030
		2003 04 (Winter)	< 5.0	< 50.0	105	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2240**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	2330	**285 J**	164 J	53.2 J	855 J
		2003 03 (Fall)	< 5.0	< 50.0	128	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3240**	< 0.40	< 50.0	5.0 J	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	1100	**378**	235	59.8 J	1090
		2003 02 (Summer)	< 50.0	< 50.0	118	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2790**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	3870	**336**	193	48.6 J	805
		2003 01 (Spring)	< 1.0	3.2 J	95.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**2700**	< 0.20	< 20.0	3.8 J	< 6.8	0.10 J	< 1.0	< 10.0	< 20.0	< 100	**7700**	**340**	220	52.0 J	1200
		2002 04 (Winter)	< 50.0	< 5.0	130	< 2.0	0.42 J	< 10.0	1.3 J	3.4 J	0.10 J	**4400**	< 0.20	0.81 J	5.6 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	7.8 J	5600 J	**380**	320	76.0	2100

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.4-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M14-01	2002 03 (Fall)	< 50.0	< 5.0	97.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**2400**	< 0.20	0.38 J	2.6 J	2.0 J	< 5.0	< 2.0	5.8 J	< 20.0	< 100	1500	**300**	150	48.0	720
		2002 02 (Summer)	0.11 J	2.9 J	85.0	< 2.0	< 5.0	2.2 J	0.40 J	1.5 J	< 3.0	**1900 J**	< 0.20	< 0.36 J	2.5 J	5.5	< 5.0	< 2.0	< 10.0	2.9 J	< 100	1100	**250**	120 J	38.0	550
	M14-02	2005 02 (Summer)	0.11 J	1.2 J	37.0	< 2.0	< 5.0	0.81 J	0.27 J	0.51 J	< 3.0	280 J	< 0.20	< 20.0	1.9 J	0.50 J	< 5.0	< 5.0	0.59 J	6.8 J	< 100	700	57.0	29.0	24.0 J	120
		2005 01 (Spring)	0.16 J	< 5.0	31.0	< 2.0	< 5.0	< 10.0	0.42 J	< 10.0	< 3.0	330	< 0.20	2.4 J	2.4 J	< 5.0	< 5.0	< 5.0	< 10.0	25.0	< 100	130	64.0	31.0	19.0	130
		2004 04 (Winter)	0.20 J	0.94 J	74.0	< 2.0	< 5.0	< 10.0	1.8	1.4 J	0.17 J	1300	< 0.20	3.0 J	7.4 J	< 5.0	< 5.0	< 5.0	1.9 J	9.8 J	< 100	400	120	50.0	28.0 J	250
		2004 02 (Summer)	< 1.0	1.4	32.0	< 2.0	< 5.0	< 10.0	0.17 J	< 10.0	< 1.0	250	< 0.20	< 20.0	< 20.0	0.69 J	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	92.0 J	64.0	33.0	26.0	130
		2004 01 (Spring)	< 5.0	< 50.0	46.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	316	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	72.0	29.7	18.6 J	146
		2003 04 (Winter)	< 5.0	< 50.0	30.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	407	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	30.7 J	85.1 J	51.0	40.0	200
		2003 03 (Fall)	< 5.0 UJ	< 50.0 UJ	29.6 J	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	534	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	14.7 J	< 200	< 100	77.7	46.8	39.4 J	122
		2003 02 (Summer)	< 50.0	< 50.0	16.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	562	< 0.40 UJ	< 50.0	19.8 J	< 20.0	< 10.0	< 5.0	2.0 J	< 20.0	< 200	1260	142	35.9	**190 J**	122
		2003 01 (Spring)	< 1.0	< 5.0	53.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	87.0	< 0.20	2.2 J	3.2 J	< 5.0	< 5.0	< 1.0	< 10.0	2.5 J	< 100	120	79.0	38.0	23.0 J	180
		2002 04 (Winter)	0.73 J	< 5.0	48.0 J	< 2.0	< 5.0	< 10.0	0.28 J	3.2 J	0.062 J	16.0	< 0.20	1.4 J	5.9 J	0.69 J	< 5.0	< 2.0	< 10.0	7.5 J	6.5 J	490 J	100	42.0	22.0	210
		2002 03 (Fall)	< 50.0	< 5.0	14.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	440	< 0.20	0.95 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	410	63.0	38.0	30.0	140
		2002 02 (Summer)	0.084 J	0.49 J	20.0	< 2.0	< 5.0	0.71 J	0.23 J	0.47 J	0.031 J	440	< 0.20	< 20.0	1.4 J	0.64 J	< 5.0 UJ	< 2.0	0.71 J	< 20.0	< 100	310	69.0	40.0 J	29.0	150
	M14-03	2005 02 (Summer)	0.18 J	0.67 J	98.0	< 2.0	< 5.0	0.80 J	0.11 J	1.3 J	< 3.0	5.4 J	< 0.20	4.2 J	2.4 J	0.50 J	< 5.0	< 5.0	0.45 J	2.5 J	< 100	340	91.0	12.0	6.7	26.0
		2005 01 (Spring)	0.52 J	< 5.0	43.0	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	< 3.0	2.8 J	< 0.20	4.0 J	3.5 J	3.8 J	< 5.0	< 5.0	< 10.0	< 20.0	< 100	< 100	120	19.0	8.3	36.0
		2004 04 (Winter)	0.20 J	< 5.0	130	< 2.0	< 5.0	< 10.0	0.21 J	2.0 J	0.20 J	2.0 J	< 0.20	3.8 J	4.6 J	< 5.0	< 5.0	< 5.0	1.1 J	10.0 J	4.9 J	420	**170**	17.0	9.0	50.0
		2004 02 (Summer)	< 1.0	< 1.0	120	< 2.0	< 5.0	< 10.0	0.074 J	< 10.0	< 1.0	25.0	< 0.20	< 20.0	< 20.0	0.70 J	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	< 100	120	14.0	6.6	34.0
		2004 01 (Spring)	< 5.0	< 50.0	44.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	13.3	< 0.40	**31.7 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	7.7 J	< 200	33.3 J	127	18.6	7.9 J	35.0
		2003 04 (Winter)	< 5.0	< 50.0	123	< 4.0	< 5.0	< 10.0	6.1 J	< 10.0	< 10.0	1020	< 0.40	**15.0 J**	15.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	126	126 J	26.7	21.9	114
		2003 03 (Fall)	< 5.0	< 50.0	121	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	193	< 0.40	5.5 J	6.2 J	< 20.0	< 10.0	< 5.0	< 50.0	3.1 J	< 200	35.8 J	124	16.2	13.4 J	83.0
		2003 02 (Summer)	< 50.0	< 50.0	54.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	2.9 J	< 0.40 UJ	< 50.0	1.9 J	< 20.0	< 10.0	< 5.0	1.5 J	< 20.0	< 200	< 100	21.0	10.4	2.8 J	16.0
		2003 01 (Spring)	< 1.0	< 5.0	57.0	< 2.0	< 5.0	< 10.0	< 10.0	2.2 J	< 3.0	31.0	< 0.20	3.0 J	3.7 J	< 5.0	< 5.0	< 1.0	0.49 J	11.0 J	< 100	190	110	15.0	8.1 J	31.0
		2002 04 (Winter)	0.34 J	< 5.0	79.0	< 2.0	< 5.0	< 10.0	0.23 J	2.3 J	0.18 J	0.91 J	< 0.20	2.5 J	4.6 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	17.0 J	8.7 J	670 J	140	17.0	9.1	50.0
		2002 03 (Fall)	< 50.0	< 5.0	130	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	8.9 J	< 0.20	3.7 J	3.3 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	450	130	15.0	9.7	56.0
		2002 02 (Summer)	0.16 J	4.4 J	120	0.036 J	< 5.0	0.41 J	0.79 J	0.68 J	0.057 J	230	< 0.20	< 20.0	2.4 J	0.46 J	< 5.0 UJ	< 2.0	0.076 J	< 20.0	< 100	4200	130	12.0 J	7.3	37.0
SWBZ	D14-01	2005 02 (Summer)	0.56 J	4.0 J	120	< 2.0	< 5.0	0.79 J	1.1	4.2 J	< 3.0	**5800 J**	< 0.20	< 20.0	4.8 J	**21.0**	< 5.0	0.094 J	0.37 J	**68.0**	< 100	**10000**	**730**	**1400**	34.0 J	**5400**
		2005 01 (Spring)	0.24 J	< 5.0	90.0	< 2.0	< 5.0	< 10.0	0.88 J	< 10.0	< 3.0	**5300**	< 0.20	2.3 J	< 20.0	< 5.0	< 5.0	5.0	< 10.0	11.0 J	< 100	6300	**690**	**1300**	39.0	**5700**
		2004 04 (Winter)	0.29 J	< 5.0	120	< 2.0	< 5.0	1.6 J	1.7	4.9 J	0.58 J	**6100**	< 0.20	1.3 J	9.7 J	< 5.0	< 5.0	< 5.0	1.6 J	34.0	9.0 J	**10000**	**790**	**1500**	49.0 J	**5900**
		2004 02 (Summer)	< 1.0	8.7	110	< 2.0	2.4 J	< 10.0	0.89 J	< 10.0	0.11 J	**5600**	< 0.20	< 20.0	< 20.0	**17.0**	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	**7500**	**720**	**1400**	39.0	**5700**
		2004 01 (Spring)	< 5.0	< 50.0	79.1 J	< 4.0	< 5.0	< 10.0	< 20.0	< 10.0	< 10.0	**4030**	< 1.0	< 100	< 40.0	< 20.0	< 10.0	< 20.0	< 50.0	< 20.0	< 200	5550	**634**	**1220**	32.8 J	**5060**

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.4-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
SWMZ	D14-01	2003 04 (Winter)	< 5.0	5.5 J	130	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	4390	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	5600	988 J	1480 J	28.0 J	6170 J
		2003 03 (Fall)	< 5.0	13.0 J	129	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	6200	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	7940	900	1600	47.2 J	5630
		2003 02 (Summer)	< 50.0	6.1 J	102	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5670 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	7270	777 J	1480 J	59.2 J	5440 J
		2003 01 (Spring)	< 1.0	6.0	110	< 2.0	< 5.0	< 10.0	< 10.0	3.6 J	< 3.0	5100	< 0.20	< 20.0	3.6 J	7.4	< 5.0	< 1.0	< 10.0	< 20.0	< 100	7600	630	1300	38.0 J	5400
		2002 04 (Winter)	< 50.0	< 5.0	110	< 2.0	< 5.0	< 10.0	1.9 J	6.5 J	0.11 J	3000	< 0.20	1.5 J	9.1 J	< 5.0 UJ	0.024 J	< 2.0	3.3 J	< 20.0	5.7 J	10000 J	360	720	19.0	5700
		2002 03 (Fall)	< 50.0	< 5.0	110	< 2.0	< 5.0	< 10.0	1.8 J	6.7 J	< 3.0	4900	< 0.20	1.3 J	9.3 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	10000	680	1300	34.0	5500
		2002 02 (Summer)	0.094 J	3.4 J	92.0	< 2.0	< 5.0	12.0	1.2 J	< 10.0	< 3.0	4900	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	4.0 J	6000	690	1400	32.0	5600
	M101-C	2005 02 (Summer)	0.59 J	< 5.0	130	< 2.0	< 5.0	3.0 J	1.2	6.3 J	< 3.0	1900 J	< 0.20	< 20.0	5.3 J	46.0	< 5.0	< 5.0	3.2 J	93.0	< 100	2100	710	1600	170 J	8800
		2005 01 (Spring)	0.26 J	3.4 J	90.0	< 2.0	< 5.0	2.6 J	0.93 J	< 10.0	< 3.0	1800	0.085 J	< 20.0	< 20.0	< 5.0	< 5.0	4.1 J	2.7 J	26.0	< 100	< 100	740	1900	240	9500
		2004 04 (Winter)	0.39 J	< 5.0	150	< 2.0	< 5.0	4.8 J	1.7	4.2 J	0.22 J	2300	< 0.20	0.25 J	11.0 J	< 5.0	< 5.0	< 5.0	5.4 J	29.0	5.5 J	< 100	790	1900	200	9100
		2004 02 (Summer)	< 1.0	< 1.0	120	< 2.0	< 5.0	< 10.0	1.4	< 10.0	0.37 J	2100	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	< 100	790	2000	220	9900
		2004 01 (Spring)	< 10.0	< 50.0	83.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1650	< 1.0	11.0 J	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	791	1980	223 J	10200
		2003 04 (Winter)	< 5.0	< 50.0	116	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1890	< 0.40 UJ	31.4 J	< 20.0	< 20.0	< 10.0	-	7.0 J	< 20.0	< 200	< 100	806 J	1910 J	214 J	9830 J
		2003 03 (Fall)	< 25.0	6.6 J	158	< 4.0	< 5.0	2.2 J	< 10.0	< 10.0	< 10.0	2730	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	< 100	912	2200	288 J	8880
		2003 02 (Summer)	< 50.0	6.2 J	104	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1920	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	< 100	687	1680	200 J	7220
		2003 01 (Spring)	< 1.0	2.5 J	120	< 2.0	< 5.0	15.0	1.2 J	5.0 J	< 3.0	2000	< 0.20	< 20.0	5.1 J	< 5.0	< 5.0	< 1.0	3.7 J	< 20.0	4.1 J	1400	680	1600	180	9600
		2002 04 (Winter)	< 50.0	4.7 J	150	< 2.0	< 5.0	3.1 J	1.7 J	5.7 J	0.044 J	3000	< 0.20	< 20.0	4.5 J	< 5.0	< 5.0	< 3.0	4.8 J	< 20.0	7.6 J	1200 J	970	2300	250	12000
		2002 03 (Fall)	< 50.0	< 5.0	150	< 2.0	< 5.0	< 10.0	1.8 J	9.9 J	< 3.0	1900	< 0.20	< 20.0	10.0 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	38.0 J	2500	750	1800	190	9400
		2002 02 (Summer)	0.076 J	< 5.0	120	< 2.0	< 5.0	< 10.0	1.4 J	< 10.0	< 3.0	1900	0.050 J	< 20.0	< 20.0	< 5.0	< 5.0	0.11 J	< 10.0	< 20.0	9.2 J	< 100	720	1800	190	9100

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.4-5
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 14
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M101-A	04/03/07	7.13	0.08	-84.5
		10/05/06	6.83	0.00	-307.9
		04/25/06	7.14	0.65	-99.0
		08/30/05	7.86	0.67	-237.0
		03/22/05	7.39	0.00	-276.0
		11/18/04	7.00	0.36	-9.0
		06/24/04	6.85	0.48	-65.0
		03/09/04	7.09	0.53	-164.0
		12/04/03	7.23	0.21	-93.0
		10/01/03	7.21	0.10	-123.0
		07/01/03	7.24	0.09	-138.0
		04/14/03	7.53	0.08	-220.0
		12/20/02	7.23	0.04	-156.0
		09/16/02	7.31	0.90	-149.7
		06/27/02	6.85	0.86	-143.7
First	M112-A	08/31/05	6.02	4.43	-64.0
		03/22/05	7.43	1.48	-36.0
		11/18/04	7.58	0.20	60.0
		06/24/04	7.30	7.20	47.0
		03/09/04	7.72	0.74	38.0
		12/05/03	7.11	0.45	212.0
		10/01/03	7.13	0.26	85.0
		07/02/03	7.11	0.18	-263.0
		04/15/03	7.03	2.14	145.0
		12/20/02	7.37	2.10	-54.0
		09/16/02	6.99	1.70	93.1
		06/27/02	6.96	0.21	-18.5
First	M113-A	08/30/05	6.56	3.76	-187.0
		03/23/05	7.26	1.15	34.0
		11/18/04	7.00	0.11	87.0
		06/24/04	6.97	0.32	-53.0
		03/09/04	7.75	0.11	62.0
		12/05/03	7.29	0.28	30.0
		10/01/03	7.42	0.22	-22.0
		07/02/03	7.22	0.28	67.0
		04/14/03	7.38	0.36	-6.0
		12/20/02	6.87	1.24	-84.7
		09/16/02	7.42	1.00	-142.4
		07/01/02	7.15	0.00	-130.4
First	M114-A	08/30/05	7.31	5.31	-212.0
		03/23/05	7.95	0.00	-229.0
		11/18/04	7.80	0.14	169.0
		06/24/04	7.73	1.42	-81.0
		03/09/04	7.83	0.11	-149.0
		12/08/03	7.80	0.27	140.0
		10/01/03	7.91	0.18	10.0
		07/02/03	7.99	0.10	-304.0

Table 3.4-5
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 14
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M114-A	04/15/03	7.68	0.15	198.0
		12/23/02	7.66	0.76	-63.8
		09/17/02	7.81	0.15	-168.0
		06/26/02	7.94	1.90	-128.0
First	M14-01	04/02/07	6.93	0.04	-76.2
		10/05/06	6.65	0.17	-270.9
		04/25/06	6.89	0.54	-100.0
		08/30/05	6.72	0.00	-138.0
		03/22/05	6.92	0.00	-137.0
		11/18/04	6.91	0.19	-9.0
		06/24/04	7.39	3.10	43.0
		03/09/04	7.52	0.20	59.0
		12/04/03	6.96	0.28	-56.0
		10/01/03	6.78	0.47	-118.0
		09/16/03	NM	NM	NM
		07/02/03	6.92	0.10	-293.0
		04/15/03	6.92	0.14	2.0
		12/20/02	6.21	1.50	-55.9
		06/26/02	6.79	***9.55***	63.3
First	M14-02	08/30/05	6.98	0.00	-145.0
		03/22/05	7.56	0.00	-245.0
		11/18/04	6.93	0.20	130.0
		06/24/04	7.07	0.35	40.0
		03/09/04	7.09	0.25	-261.0
		12/05/03	7.08	0.45	224.0
		09/30/03	7.37	0.39	-316.0
		07/02/03	7.22	0.37	159.0
		04/15/03	7.29	0.67	177.0
		12/20/02	6.43	3.49	40.3
		09/16/02	7.41	2.60	-114.0
		06/27/02	7.34	0.25	-70.8
First	M14-03	08/30/05	6.66	2.47	84.0
		03/22/05	7.10	2.67	-57.0
		11/18/04	6.80	2.03	234.0
		06/24/04	6.62	2.26	153.0
		03/09/04	6.03	2.95	35.0
		12/05/03	6.87	0.32	194.0
		10/01/03	6.83	0.44	-210.0
		07/02/03	6.54	0.85	178.0
		04/15/03	7.09	2.21	143.0
		12/20/02	6.46	4.90	67.9
		09/16/02	6.78	5.20	6.0
		06/27/02	6.70	0.89	-62.9
		08/30/05	6.85	0.00	-145.0
		03/22/05	7.07	0.17	-154.0
		11/18/04	7.04	0.21	46.0
		06/24/04	6.73	0.56	-39.0

Table 3.4-5
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 14
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D14-01	03/09/04	6.63	0.36	207.0
		12/04/03	7.02	0.95	-165.0
		10/01/03	6.80	0.22	-115.0
		07/01/03	7.03	0.33	-225.0
		04/15/03	7.04	0.55	35.0
		12/20/02	6.42	3.12	-89.9
		09/17/02	6.79	0.28	-103.0
		07/15/02	7.08	0.35	0.0
Second	M101-C	08/30/05	7.50	0.59	-358.0
		03/22/05	6.97	0.00	-398.0
		11/18/04	6.29	0.10	-267.0
		06/25/04	6.42	0.21	-194.0
		03/09/04	6.74	0.10	-89.0
		12/04/03	6.72	0.19	-314.0
		10/01/03	6.49	0.10	-306.0
		07/02/03	6.64	0.10	-283.0
		04/14/03	7.31	0.34	-262.0
		12/20/02	7.00	0.05	-337.0
		09/17/02	6.64	0.12	-350.0
		07/15/02	6.92	0.20	0.0

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 3.4-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M101-A	2007 01 (Spring)	< 0.0050	< 0.0050	0.56	< 0.050	< 0.10	550	130	620	620	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	0.013	0.71	< 0.050	< 0.050	410	120	540	540	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050 UJ	< 0.0050	0.37	< 0.10	< 0.15	1100	48.0	790	790	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	0.028	0.37	0.020 J	< 0.10	550	120	510	510	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	0.018 J	0.23 J	< 0.050	< 0.10	630	100	690	690	< 1.0	< 1.0	0.070
		2003 04 (Winter)	< 0.0030	0.018	0.28	< 0.10	< 1.0	633	52.6	310	310	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	0.030	0.23	< 1.0	< 1.0	1040	45.5	2040	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	0.010	0.33	< 0.10	< 0.10	850	81.0	630	630	< 1.0	< 1.0	0.12
		2002 02 (Summer)	< 0.010	0.078	0.18	< 0.10	< 0.10	760	61.0	630	630	< 1.0	< 1.0	0.21
	M112-A	2005 02 (Summer)	< 0.0050	< 0.0050	0.045	< 0.050	< 0.050	11.0	63.0	280	280	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.080	0.030 J	< 0.050	25.0	130	320	320	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	0.014 J	0.010 J	< 0.050	16.0	47.0	290	290	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.10	< 0.20	< 0.20	15.6 J	105	309	309	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.012	< 0.10	< 0.10	22.2	49.8	268	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.025	0.71	< 0.050	22.0	130	380	380	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.050	< 0.050	14.0	52.0	260	260	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M113-A	2005 02 (Summer)	0.084 J	< 0.0050	2.0	0.010 J	< 0.050	180	230	920	920	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	0.095	< 0.0050	2.2	< 0.050	< 0.050	130	380	530	530	< 1.0	< 1.0	0.25
		2004 02 (Summer)	0.052 J	< 0.010 J	1.7 J	< 0.050	< 0.050	180	250	670	670	< 1.0	< 1.0	0.15
		2003 04 (Winter)	0.081	< 0.0030 UJ	1.5	0.18 J	< 0.20	155	263	573	573	< 5.0	-	< 1.0
		2003 02 (Summer)	0.035	0.0013 J	1.1	< 1.0	< 1.0	182	243	596	-	-	-	< 1.0
		2002 04 (Winter)	0.037	< 0.010	1.5	< 0.050	< 0.050	160	260	540	540	< 1.0	< 1.0	0.18
		2002 02 (Summer)	0.057	< 0.010	2.0	< 0.10	< 0.10	150	210	620	620	< 1.0	< 1.0	0.28
	M114-A	2005 02 (Summer)	< 0.0050 UJ	< 0.0050	0.032	< 0.050	< 0.10	510	49.0	680	680	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.053	< 0.050	< 0.10	570	46.0	600	600	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	0.030 J	< 0.050	< 0.10	560	49.0	700	630	72.0	< 1.0	0.050
		2003 04 (Winter)	< 0.0030	< 0.0030	0.026	< 1.0	< 1.0	535	41.8	650	650	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.031	< 1.0	< 1.0	670	45.7	631	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.011	< 0.050	< 0.050	370	50.0	490	490	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.030	< 0.25	< 0.25	530	55.0	660	660	< 1.0	< 1.0	< 0.040
	M14-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.096	< 0.25	< 0.25	2000	220	440	440	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.086	< 0.25	< 0.50	3100	340	470	470	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M14-01	2005 02 (Summer)	< 0.0050 UJ	< 0.0050	0.054	< 0.15	< 0.50	2700	310	460	460	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.080	< 0.25	< 0.25	2700	310	400	400	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	0.047 J	< 0.25	< 0.25	2200	270	430	430	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.045	1.3	< 1.0	2110	265	411	411	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.048	< 1.0	< 1.0	2430	282	375	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.052	0.40	< 0.50	4000	520	390	400	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.078	< 0.50	< 0.50	1400	200	360	360	< 1.0	< 1.0	< 0.040
	M14-02	2005 02 (Summer)	< 0.0050 UJ	< 0.0050	0.21	< 0.050	< 0.050	85.0	56.0	400	400	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.019	< 0.050	< 0.050	300	110	430	430	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	0.11 J	0.030 J	< 0.050	79.0	50.0	430	430	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.015	< 0.20	< 0.20	93.6	84.7	441	441	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.020	< 1.0	< 1.0	99.9	86.6	393	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.55	< 0.050	330	120	390	390	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.043	0.060	< 0.050	78.0	110	420	420	< 1.0	< 1.0	0.040 J
	M14-03	2005 02 (Summer)	< 0.0050 UJ	< 0.0050	< 0.0050	0.13	< 0.050	12.0	60.0	280	280	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0050	0.51	< 0.050	35.0	180	290	290	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M14-03	2004 02 (Summer)	< 0.010 J	< 0.010 J	< 0.010 J	0.25	< 0.050	18.0	95.0	350	350	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.022	< 0.20	< 0.20	34.7 J	144	369	369	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0050	0.31	< 0.10	30.8	105	268	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	1.2	< 0.050	32.0	190	360	360	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.010 J	0.29	< 0.050	21.0	120	280	280	< 1.0	< 1.0	< 0.040
SWBZ	D14-01	2005 02 (Summer)	< 0.0050 UJ	< 0.0050	0.012	< 1.0	< 2.5	13000	1200	810	810	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.015	< 1.0	< 1.3	13000	1200	730	730	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	0.010 J	< 1.3	< 1.3	13000	1200	770	770	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0082	< 1.0	-	13200	1040	746	746	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0085	< 1.0	< 50.0	13200	1070	725	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.011	< 1.3	< 1.3	13000	1200	760	760	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.016	< 0.50	< 0.50	13000	1200	770	770	< 1.0	< 1.0	< 0.040
	M101-C	2005 02 (Summer)	< 0.0050 UJ	< 0.0050	10.0	< 1.0	< 2.5	19000	1900	1300	1300	< 1.0	< 1.0	0.52 J
		2004 04 (Winter)	< 0.0050	< 0.0050	17.0	< 1.3	< 2.5	20000	1700	1800	1800	< 1.0	< 1.0	37.0
		2004 02 (Summer)	< 0.010	< 0.010	14.0	< 1.3	< 2.5	20000	1800	1700	1700	< 1.0	< 1.0	40.0
		2003 04 (Winter)	< 0.0030	< 0.0030	6.1	< 1.0	-	17000	1610	1890	1890	< 5.0	-	32.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 14

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M101-C	2003 02 (Summer)	< 0.0030	< 0.0030	5.7	< 1.0	< 50.0 UJ	21100	1750	1590	-	-	-	22.0
		2002 04 (Winter)	< 0.010	< 0.010	18.0	< 2.5	< 2.5	19000	1600	1900	1900	< 1.0	< 1.0	45.0
		2002 02 (Summer)	< 0.010	< 0.010	20.0	< 1.0	< 1.0	20000	1700	1700	1700	< 1.0	< 1.0	20.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.4-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 14

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 14 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
TPH-Diesel (UG/L)	2	2	160	M101-A	03 Apr 2007	4900	M101-A	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	1	2	1.3 J	M101-A	03 Apr 2007	2.3	M101-A	2004 04 (Winter)
TPH-Jet Fuel (UG/L)	1	2	78.0	M101-A	03 Apr 2007	1200	M101-A	2004 04 (Winter)
Trichloroethene (UG/L)	1	2	1.6 J	M101-A	03 Apr 2007	3.3	M101-A	2002 04 (Winter)
1,1-Dichloroethene (UG/L)	1	2	0.10 J	M101-A	05 Oct 2006	0.50 J	M101-A	2002 02 (Summer)
Ethylbenzene (UG/L)	1	2	0.90 J	M101-A	05 Oct 2006	3.4	M101-A	2002 02 (Summer)
TPH-Motor Oil (UG/L)	1	2	83.0 J	M101-A	03 Apr 2007	1100	M101-A	2004 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	2	2	11.0	M101-A	05 Oct 2006	270	M101-A	2002 02 (Summer)
TPH-Gasoline (UG/L)	2	2	120	M101-A	05 Oct 2006	540	M101-A	2002 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	1	2	0.90 J	M101-A	05 Oct 2006	1.9	M101-A	2002 02 (Summer)
1,1-Dichloroethane (UG/L)	2	2	80.0	M101-A	05 Oct 2006	150	M101-A	2002 02 (Summer)
Naphthalene (UG/L)	1	2	0.70 J	M14-01	05 Oct 2006	2.6	M113-A	2004 01 (Spring)
Chlorobenzene (UG/L)	1	2	0.20 J	M101-A	05 Oct 2006	--	NA	NA
Vinyl Chloride (UG/L)	1	2	22.0	M101-A	05 Oct 2006	300	M101-A	2002 02 (Summer)
1,4-Dichlorobenzene (UG/L)	1	2	0.20 J	M101-A	05 Oct 2006	0.20 J	M101-A	2004 04 (Winter)
Isopropylbenzene (UG/L)	1	2	1.5	M101-A	05 Oct 2006	5.9	M101-A	2002 02 (Summer)
n-Propylbenzene (UG/L)	1	2	0.20 J	M101-A	05 Oct 2006	5.9	M101-A	2002 02 (Summer)
sec-Butylbenzene (UG/L)	1	2	1.3	M101-A	05 Oct 2006	3.8	M101-A	2002 02 (Summer)
Tert-butyl alcohol (UG/L)	1	2	3.4 J	M101-A	05 Oct 2006	20.0	M101-A	2004 02 (Summer)
Tert-butylbenzene (UG/L)	1	2	0.50 J	M101-A	05 Oct 2006	0.60	M101-A	2002 02 (Summer)
1,2,3-Trichlorobenzene (UG/L)	1	2	0.20 J	M14-01	02 Apr 2007	--	NA	NA
1,2,4-Trichlorobenzene (UG/L)	1	2	0.20 J	M14-01	02 Apr 2007	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 3.4-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 14

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 14 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	2	2	*0.56*	*M101-A*	*03 Apr 2007*	2.2	M113-A	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.4-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 14

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 14 (First Water-Bearing Zone)								
Dissolved Metals								
Arsenic (UG/L)	2	2	16.0	M101-A	05 Oct 2006	27.1 J	M101-A	2004 01 (Spring)
Cadmium (UG/L)	1	2	0.94 J	M101-A	03 Apr 2007	0.42 J	M14-01	2002 04 (Winter)
Chromium (UG/L)	1	2	3.3 J	M101-A	03 Apr 2007	6.3 J	M113-A	2002 02 (Summer)
Copper (UG/L)	1	2	1.4 J	M101-A	03 Apr 2007	14.0	M114-A	2002 04 (Winter)
Mercury (UG/L)	1	2	0.024 J	M14-01	05 Oct 2006	0.065 J	M113-A	2002 02 (Summer)
Nickel (UG/L)	2	2	6.8 J	M101-A	03 Apr 2007	25.7	M113-A	2003 04 (Winter)
Zinc (UG/L)	2	2	64.0	M101-A	05 Oct 2006	650	M101-A	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.4-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 14

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current *Sampling Year*	Well Count with Detected *Concentrations*	Well Count Analyzed for *Parameter*	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 14 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	2	2	*620*	*M101-A*	*03 Apr 2007*	2040	M101-A	2003 02 (Summer)
Alkalinity, bicarbonate (MG/L)	2	2	620	M101-A	03 Apr 2007	920	M113-A	2005 02 (Summer)
Chloride (MG/L)	2	2	2000	M14-01	02 Apr 2007	4000	M14-01	2002 04 (Winter)
Sulfate (as SO4) (MG/L)	2	2	220	M14-01	02 Apr 2007	520	M14-01	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

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FIGURES

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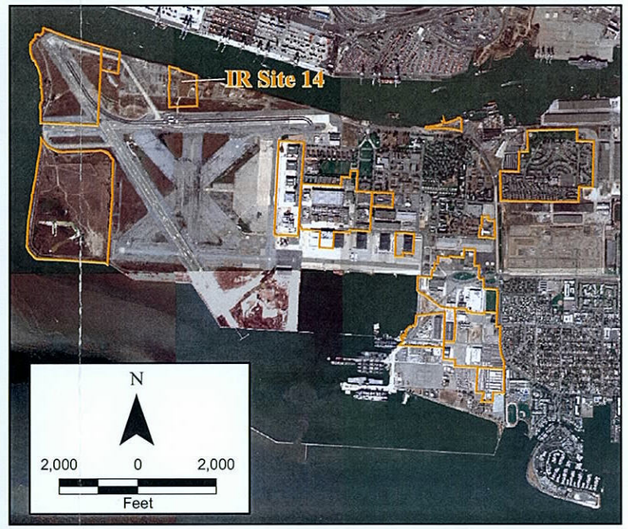
DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

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FIGURE 3.4-1
OPERABLE UNIT 1 - IR SITE 14
SITE AND WELL LOCATION MAP

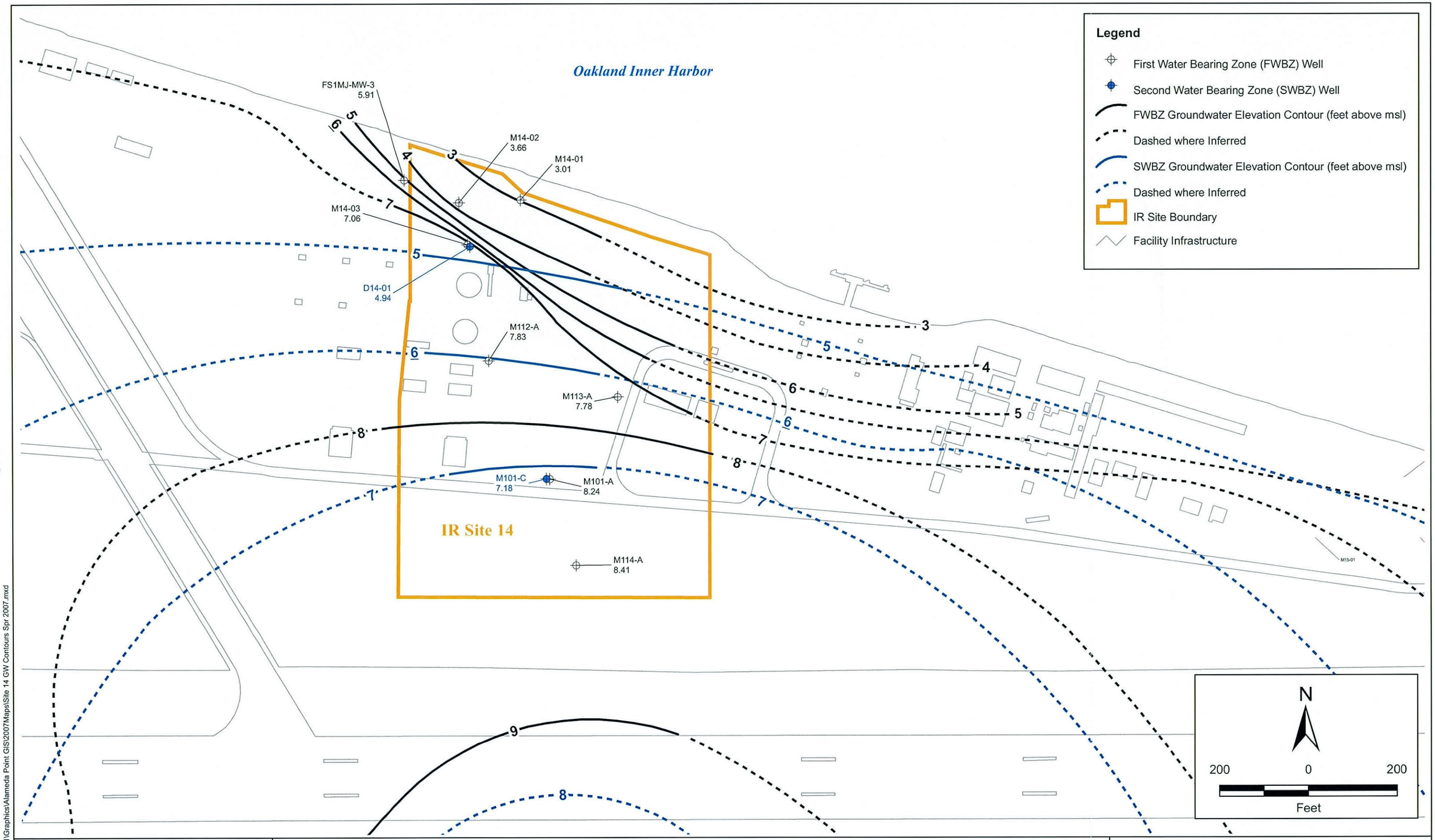

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FIGURE 3.4-2
OPERABLE UNIT 1 - IR SITE 14
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

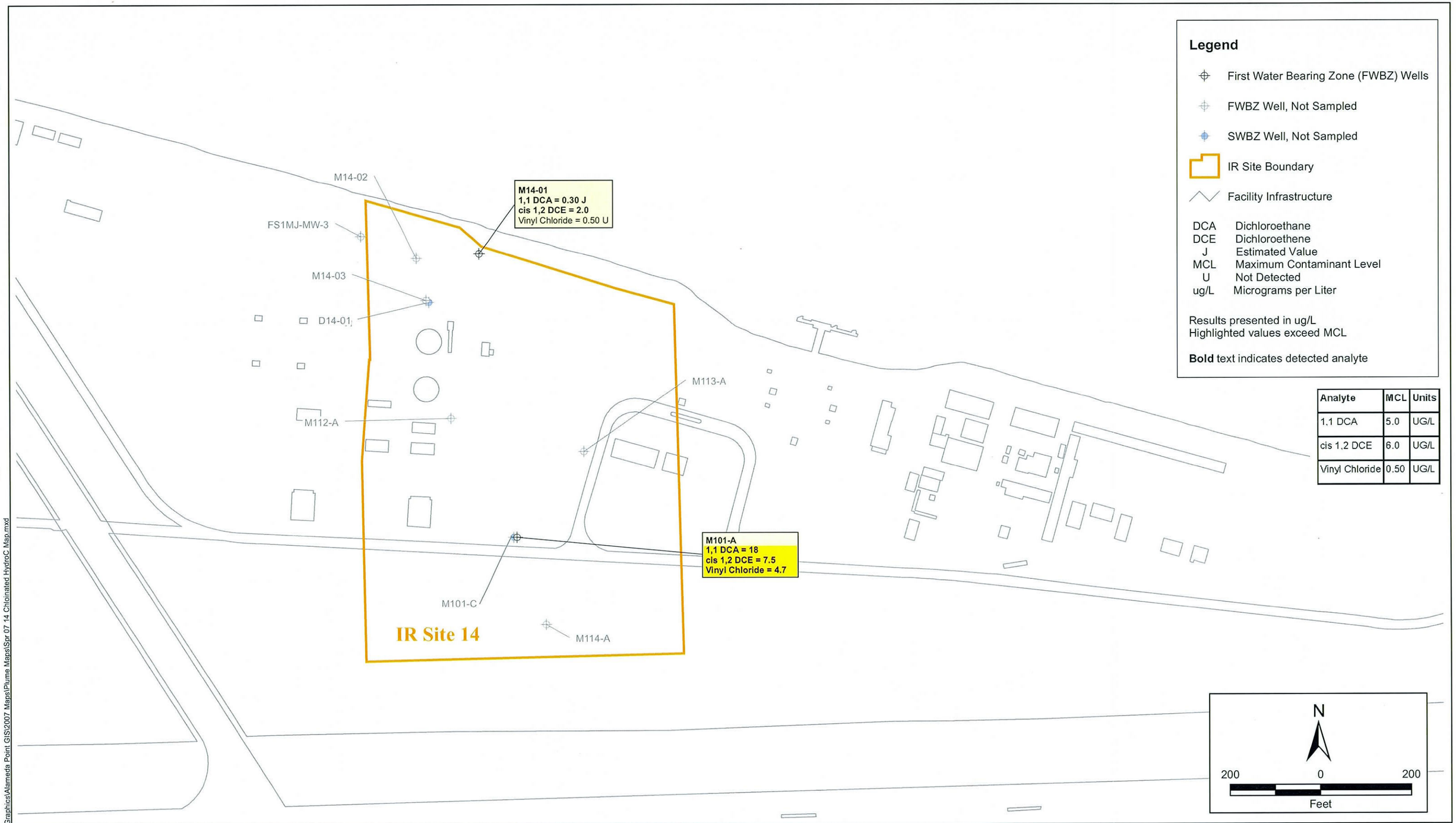

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FIGURE 3.4-3
OPERABLE UNIT 1 - IR SITE 14
GROUNDWATER CONCENTRATIONS OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2007

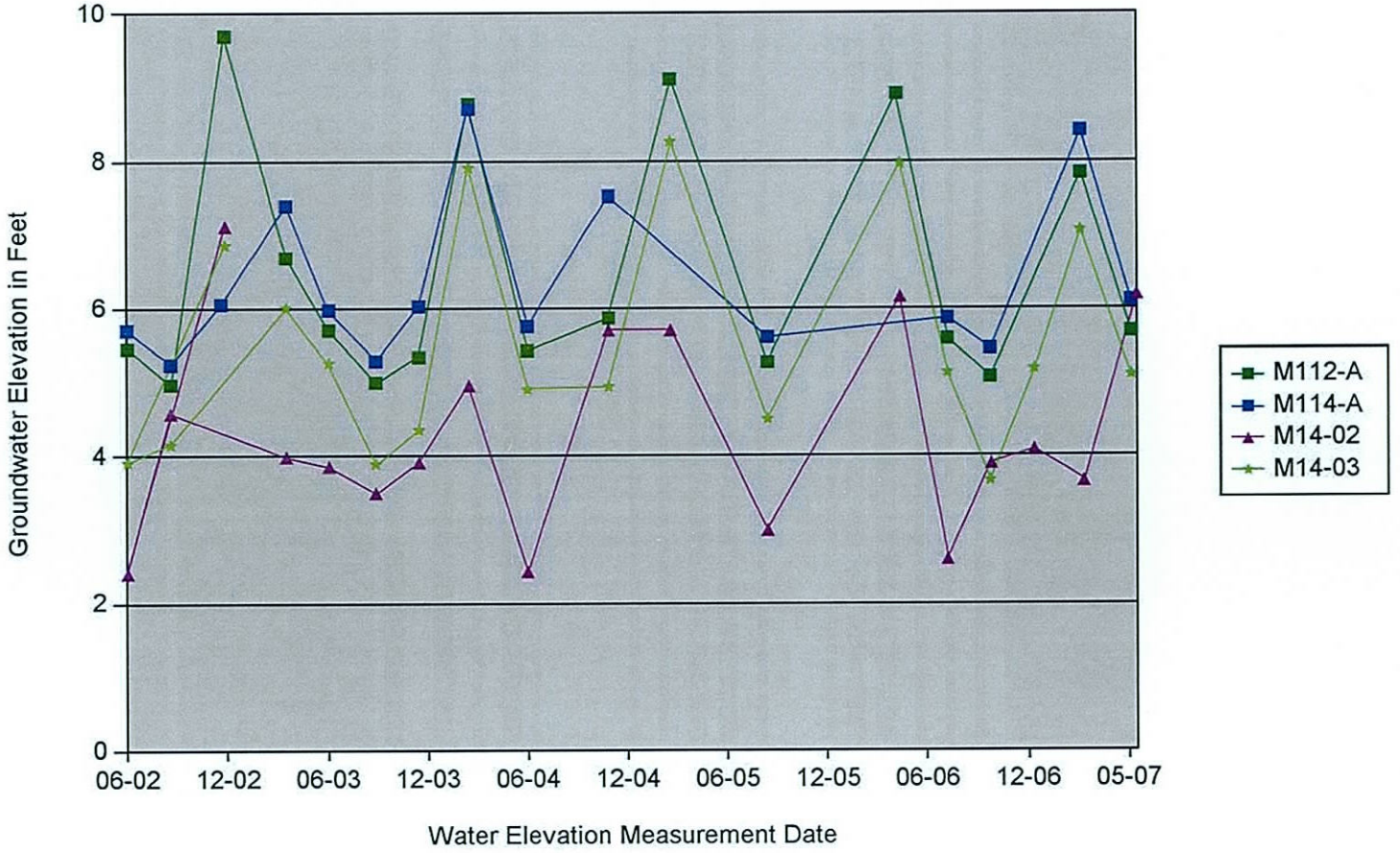

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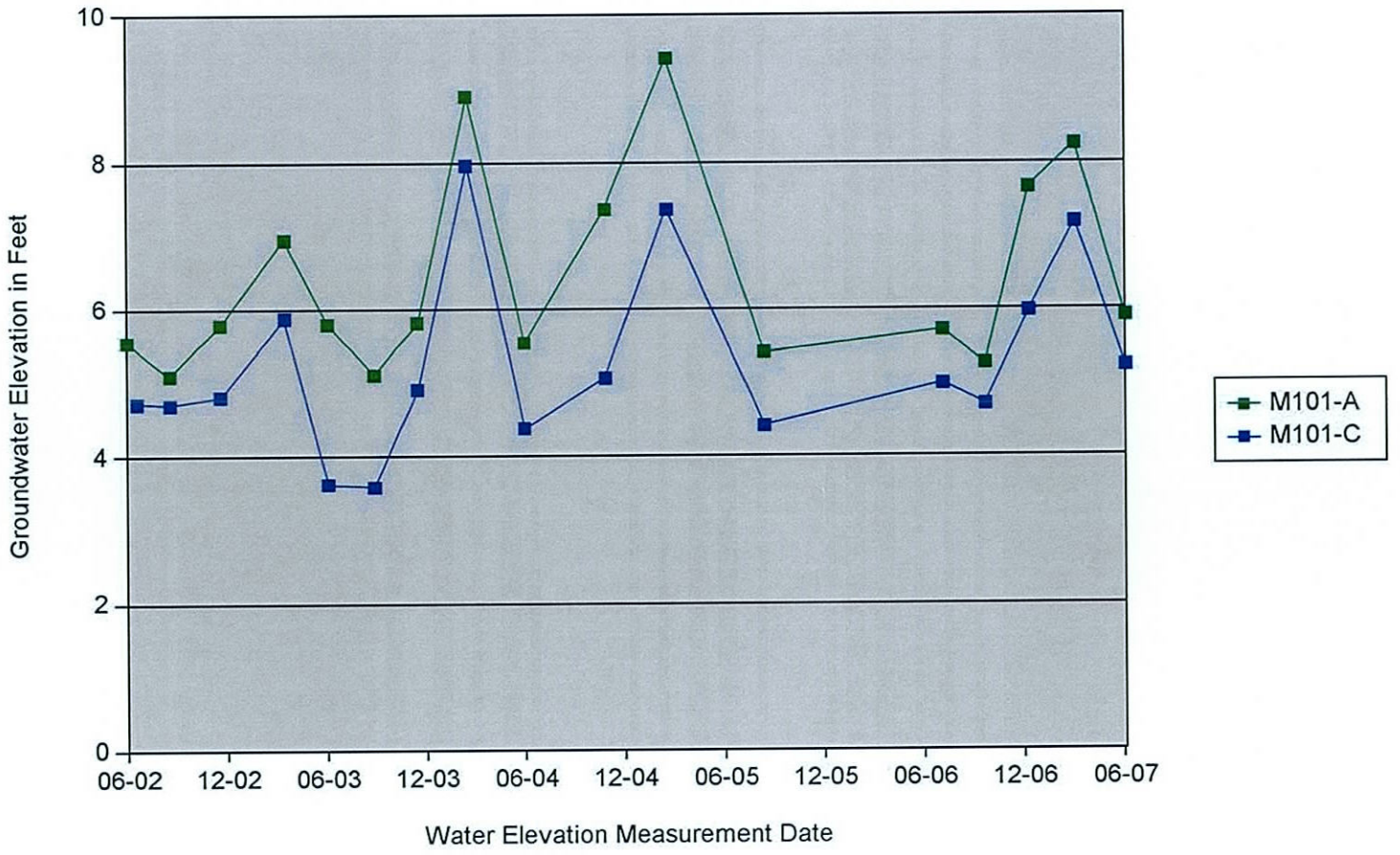
FIGURE 3.4-4a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 14:
NORTH-SOUTH ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 3.4-4a.ai



ITSI Innovative Technical Solutions, Inc.

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FIGURE 3.4-4b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 14:
PAIRED WELLS (FWBZ WELL M101-A AND SWBZ WELL M101-C)
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 3.4-4b.ai

Oakland Inner Harbor

Legend

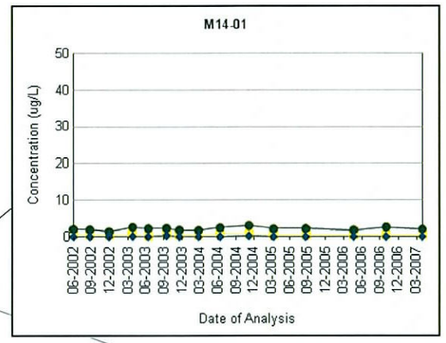
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

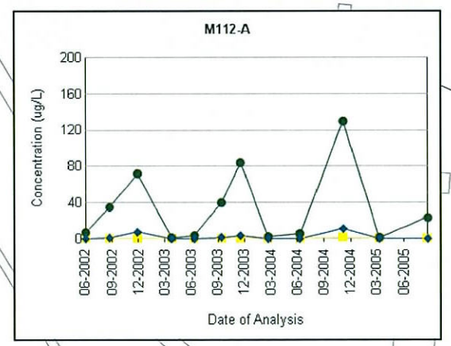
DCA Dichloroethane
DCE Dichloroethene
MCL Maximum Contaminant Level
ug/L Micrograms per Liter

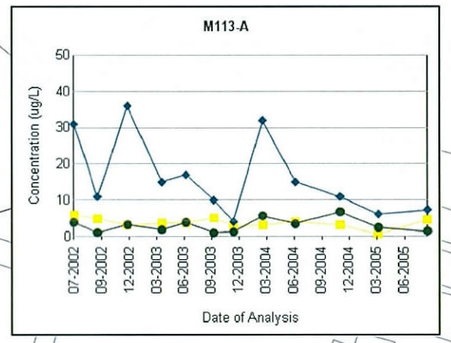
1,1 DCA
cis 1,2 DCE
Vinyl Chloride

Analyte	MCL	Units
1,1 DCA	5.0	UG/L
cis 1,2 DCE	6.0	UG/L
Vinyl Chloride	0.50	UG/L

M14-02
FS1MJ-MW-3
M14-03
D14-01
M101-C
M114-A
IR Site 14







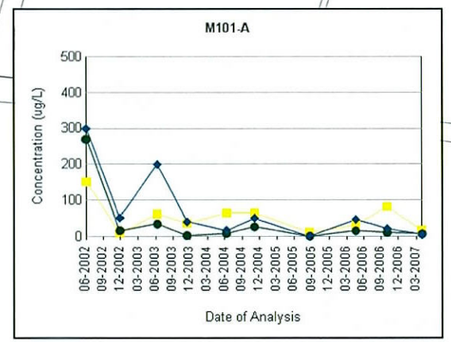


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FIGURE 3.4-5
OPERABLE UNIT 1 - IR SITE 14
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

3.5 INSTALLATION RESTORATION SITE 16

IR Site 16 is located in the southeastern corner of Alameda Point (Figure 1-2) and constitutes approximately 11 acres of the southernmost portion of the southern industrial area. The site was originally designated as an IR site based on concerns related to equipment storage and polychlorinated biphenyls (PCB) oils. Subsequent investigations revealed the presence of chlorinated solvents and aromatic hydrocarbons (mainly dichlorobenzene isomers) in groundwater. The chlorinated VOCs are currently the focus of the groundwater investigation at the site.

IR Site 16 consists mainly of paved areas, former Buildings 338, 402, and 584, and Buildings 608 and 620. The Navy used this Container Storage Area (typically referred to as the CANs) for over 50 years as a storage area for various operations. The main portion of IR Site 16 occupies 6.5 acres, including 3 acres of storage yard and 3.5 acres of large shipping containers placed in the yard in 1948; the CANs have been converted into storage buildings. Before 1948, the storage yard was used for aircraft parking and storage of unspecified paints, solvents, acids, and bases, in addition to transformers containing PCB oils (Tetra Tech, 1999a). A soil removal action for PCBs in soil was completed west of the CANs in 1997 and 1998. The temporary aircraft runway plates were removed and the upper two feet of soil was excavated.

Building 608 was constructed in 1981 and was used as an auto service and repair facility from 1981 through 1996. Multiple service bays and hydraulic lifts were located in the building. Underground storage tank UST 608-1, removed in 1995, was located northwest of Building 608 and was used for storage of waste oil. A 1,500-gallon (estimated) above-ground petroleum storage tank was located at the southeast corner of Building 608. Chemicals associated with automobile servicing included miscellaneous petroleum products, such as lubricating oil, motor oil, transmission oil, and gear oil; packaged products, such as engine degreaser, brake and carburetor cleaning solvents, and octane booster; and bulk solvents, such as washing solvent and brake cleaning solvent. A 1,000-gallon above-ground storage tank was also located north of Building 620, north of West Hornet Avenue and west of Skyhawk Street.
Potential contamination sources at IR Site 16 include the following:

- Leaking drums, transformers, and storage containers containing paints, solvents, acids, bases, and PCB oils
- PCB oils that were sprayed onto the grounds for weed control
- Corrosion materials and particulates from aircraft parts, electrical equipment, and paint stripping baths
- Waste sumps and a former UST 608-1 associated with Building 608 (Auto Hobby Shop).

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program sampling year at IR Site 16 included sampling and analysis of five FWBZ groundwater monitoring wells conducted semi-annually during the Fall and Spring. The groundwater monitoring points included in the monitoring program are listed in Table 3.5 1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. The site and well locations are presented on Figure 3.5-1.

3.5.1 Groundwater Level Measurement Summary

Groundwater levels were measured quarterly at seven FWBZ groundwater monitoring wells at IR Site 16 during the current sampling year. The results are presented along with previously collected water-level data in Table 3.5-2. Groundwater flow direction and gradient are discussed in Section 3.5.4.1; trends in groundwater elevations are discussed in Section 3.5.4.2.

3.5.2 Analytical Parameters

Groundwater samples collected at IR Site 16 wells during the Fall 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- TPH by EPA Method 8015B
- VOCs by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8270 SIM
- Organochlorine Pesticides by EPA Method 8081A
- PCBs by EPA Method 8082
- Dissolved Metals by EPA Methods 6010B/6020A/7470A/7196A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

Table 3.5-1 lists groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

3.5.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following subsections, and listed along with previously obtained analytical data in the following tables:

- Table 3.5-3, "Groundwater Sample Analytical Results at IR Site 16, Summer 2002 through Spring 2007"
- Table 3.5-4, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 16: 1,4-Dioxane, Fall/Winter 2004 through Spring 2007"
- Table 3.5-5, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 1 - IR Site 16, Summer 2002 through Spring 2007"
- Table 3.5-6, "Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 1 - IR Site 16, Summer 2002 through Spring 2007"
- Table 3.5-7, "Groundwater Sample Analytical Results: Organochlorine Pesticides at Operable Unit 1 - IR Site 16, Summer 2002 through Spring 2007"
- Table 3.5-8, "Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 16, Summer 2002 through Spring 2007"
- Table 3.5-9, "Groundwater Sample Analytical Results: Natural Attenuation Parameter at Operable Unit 1 - IR Site 16, Summer 2002 through Spring 2007".

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background

values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

3.5.4 Discussion of Results

Groundwater samples collected in the current sampling year indicate that TPH groundwater concentrations were low to non-detect for two site wells; three wells were not analyzed for TPH. The maximum concentration of the sum of the TPH fractions at the site during this sampling year was 120 µg/L at well 608MJ-MW2, with TPH characterized as gasoline being the primary component (Table 3.5-3).

Chlorinated hydrocarbons (PCE, cis-1,2-DCE, and TCE) were detected at concentrations exceeding the MCL in the Fall 2006 and Spring 2007 samples collected from 608MJ-MW2. The concentrations are consistent with historical sampling results from this well (Table 3.5-3). Sample results from remaining wells for chlorinated hydrocarbons in the current year include low levels of cis-1,2-DCE, trans-1,2-dichloroethene (1,2-DCE),and TCE.

PCBs (Table 3.5-6) were not detected above the laboratory practical quantitation limit in any of the samples analyzed during the current sampling year.

Heptachlor epoxide was the only organochlorine pesticide (Table 3.5-7) detected at 608MJ-MW2 exceeding MCLs.

The Fall 2006 and Spring 2007 samples from MW16-05 indicated concentrations of **arsenic** in excess of the MCL, but below its background value (Table 3.5-5).

3.5.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 3.5-2. Groundwater flow direction in the FWBZ at IR Site 16 ranges from west to southwest. The groundwater gradient varies between approximately 0.003 feet per foot in the northern part of the site and 0.01 feet per foot in the southern portion of the site. Although SWBZ contours are included on Figure 3.5-2, the potentiometric surface is based on nearby sites; no SWBZ wells exist at IR Site 16. The

predominant feature of the FWBZ groundwater potentiometric surface is a trough in the southern portion of IR Site 16.

3.5.4.2 Groundwater Contaminant Distribution

PCE, TCE and cis-1,2-DCE were detected in groundwater at IR Site 16 at concentrations exceeding MCLs in the current sampling year. Analytical results for selected chlorinated hydrocarbons are posted on Figure 3.5-3.

3.5.4.3 Comparison of Current Analytical Results with Historical Data

A comprehensive summary of the groundwater sampling analytical results for the current sampling year is provided in Table 3.5-10, which lists each of the analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Table 3.5-10 also lists the historical maximum concentration for each analyte. Concentrations exceeding MCLs are highlighted in yellow. In general, most of the analytes detected at concentrations exceeding MCLs during the Fall 2006 and Spring 2007 sampling events were similar to concentrations reported in previous sampling years (Table 3.5-10).

- Vinyl chloride exceeded the MCL during historical sampling events, but not during the current sampling year.
- Arsenic was the only metal exceeding an MCL during the 2006-2007 event; the detected arsenic concentrations were all below its background value.

3.5.4.4 Trends in Groundwater Elevation Data

For IR Site 16, two hydrographs have been prepared for the Spring 2007 Annual Report, as follows:

- Figure 3.5-4a, "Trends in Groundwater Elevations at Operable Unit 1 - Site 16: FWBZ Wells Located in Northwest Portion"
- Figure 3.5-4b, "Trends in Groundwater Elevations at Operable Unit 1 - IR Site 16: FWBZ Wells Located in Southern Portion".

The following observations can be made from viewing the hydrographs:

- Groundwater elevations at IR Site 16 show a generally consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. Although the degree of seasonal fluctuation varies,

a similar pattern is apparent even for widely spaced monitoring wells (see Figures 3.5-4a and 3.5-4b).

- An overall increase in groundwater elevations over time is apparent; i.e., peak seasonal elevations for most wells have shown a tendency to increase each year since 2002. These changes are likely due to an overall increase in precipitation during the measurement.

3.5.4.5 Trends in Groundwater Contaminant Concentrations

Chlorinated hydrocarbons have been consistently detected in groundwater from a few IR Site 16 wells since monitoring was initiated at the site in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 3.5 5 and 3.5-6.

The groundwater concentrations of chlorinated and aromatic hydrocarbons in wells MWC2-2 and 608MJ-MW2 show significant fluctuations. These may be related to the influence of seasonal fluctuations in groundwater elevations. In general, the same constituents tend to show up in the same wells from one sampling event to another. However, the overall trends of the time-series plots for these wells indicate a general decrease in peak concentrations over time for most analytes.

3.5.5 Conclusions and Recommendations

The highest concentration of chlorinated hydrocarbons and metals in the program wells were found in well 608MJ-MW2. Overall concentrations of COPCs in remaining program wells indicate a decreasing trend. Continued monitoring of the existing well network is recommended at IR Site 16; however, based upon a review of the historical analytical results, the Navy recommends elimination of the analysis for PCBs. No detectable concentrations of PCBs have been found at this site to date (6 rounds of sampling). Final approval of the proposed change will be made after review of the results of recent Data Gap SWMU sampling and initial sampling of newly-installed FWBZ and SWBZ groundwater monitoring wells completed as part of the Data Gap investigation.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 3.5-1
Groundwater Monitoring Summary, Operable Unit 1-IR Site 16, Summer 2006 through Spring 2007

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds						Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Groundwater Monitoring Program Wells															
First	608MJ-MW2	Fill-BSU	3.2 - 11.5	S	S	S	S	S	S	S[1]	A	A	A	A	A
	F16SS-MW06	Fill-BSU	5 - 15			S	S	S	S		A	A	A	A	A
	MW16-05	Fill-BSU	5 - 14.5			S	S	S	S	S[1]	A	A	A	A	A
	MW16-06	Fill-BSU	5 - 14.5			S	S	S	S	S[1]	A	A	A	A	A
	MWC2-3	Fill-BSU	5 - 15	S	S	S	S	S	S	S[1]	A	A	A	A	A
Non-Program Wells, Water Level Only															
First	MWC2-1	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-
	MWC2-2	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

\- Well not in analytical program.

[1] Priority Pollutant metals only

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
PCBs - Polychlorinated Biphenyls

(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 3.5-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 16,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	608MJ-MW2	11.3	11.05 *	03/07/07	3.67	7.38
		11.3	11.05 *	12/12/06	3.61	7.44
		11.3	11.05 *	09/26/06	4.47	6.58
		11.3	11.05 *	07/11/06	3.97	7.08
		11.3	11.05 *	04/11/06	2.7	8.35
		11.3	11.05 *	08/23/05	3.42	7.63
		11.3	11.05 *	02/28/05	3.18	7.87
		11.3	11.05 *	11/08/04	4.59	6.46
		11.3	11.05 *	06/15/04	4.55	6.50
		11.3	11.05 *	03/01/04	3.51	7.54
		11.3	11.05 *	12/04/03	4.60	6.45
		11.3	11.05 *	09/15/03	4.69	6.36
		11.3	11.05 *	06/23/03	4.16	6.89
		11.3	11.05 *	04/07/03	3.89	7.16
		11.3	11.05 *	12/11/02	4.66	6.39
		11.3	11.05 *	09/03/02	4.73	6.32
		11.3	11.05 *	06/17/02	4.24	6.81
First	MWC2-1	12.1	11.32 *	03/09/07	4.00	7.32
		12.1	11.32 *	12/12/06	NM	NC
		12.1	11.32 *	09/26/06	3.77	7.55
		12.1	11.32 *	07/11/06	3.25	8.07
		12.1	11.32 *	04/11/06	2.06	9.26
		12.1	11.32 *	08/23/05	3.55	7.77
		12.1	11.32 *	02/28/05	3.12	8.20
		12.1	11.32 *	11/08/04	4.22	7.10
		12.1	11.32 *	06/15/04	3.87	7.45
		12.1	11.32 *	03/01/04	3.21	8.11
		12.1	11.32 *	12/04/03	4.40	6.92
		12.1	11.32 *	09/15/03	4.74	6.58
		12.1	11.32 *	06/23/03	3.63	7.69
		12.1	11.32 *	04/07/03	3.47	7.85
		12.1	11.32 *	12/11/02	4.02	7.30
		12.1	11.32 *	09/03/02	4.00	7.32
		12.1	11.32 *	06/17/02	3.63	7.69
First	MWC2-2	13.2	12.47 *	03/07/07	4.18	8.29
		13.2	12.47 *	12/12/06	5.08	7.39
		13.2	12.47 *	09/26/06	5.12	7.35
		13.2	12.47 *	07/11/06	4.51	7.96
		13.2	12.47 *	04/11/06	3.07	9.40
		13.2	12.47 *	08/23/05	5.11	7.36
		13.2	12.47 *	02/28/05	4.08	8.39
		13.2	12.47 *	11/08/04	5.85	6.62
		13.2	12.47 *	06/15/04	5.32	7.15
		13.2	12.47 *	03/01/04	4.37	8.10
		13.2	12.47 *	12/04/03	5.91	6.56
		13.2	12.47 *	09/15/03	4.23	8.24
		13.2	12.47 *	06/23/03	4.92	7.55
		13.2	12.47 *	04/07/03	4.71	7.76
		13.2	12.47 *	12/11/02	5.62	6.85
		13.2	12.47 *	09/03/02	5.36	7.11
		13.2	12.47 *	06/17/02	4.92	7.55

Table 3.5-2
Summary of Groundwater Level Measurements at
Operable Unit 1 - IR Site 16,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWC2-3	10.7	10.41 *	03/07/07	2.53	7.88
		10.7	10.41 *	12/12/06	NM	NC
		10.7	10.41 *	09/26/06	3.37	7.04
		10.7	10.41 *	07/11/06	2.83	7.58
		10.7	10.41 *	04/11/06	1.10	9.31
		10.7	10.41 *	08/23/05	3.34	7.07
		10.7	10.41 *	02/28/05	1.86	8.55
		10.7	10.41 *	11/08/04	3.55	6.86
		10.7	10.41 *	06/15/04	3.45	6.96
		10.7	10.41 *	03/01/04	1.82	8.59
		10.7	10.41 *	12/04/03	3.47	6.94
		10.7	10.41 *	09/15/03	2.56	7.85
		10.7	10.41 *	06/23/03	3.19	7.22
		10.7	10.41 *	04/07/03	2.89	7.52
		10.7	10.41 *	12/11/02	3.73	6.68
		10.7	10.41 *	09/03/02	3.74	6.67
		10.7	10.41 *	06/17/02	3.27	7.14
First	MW16-05	12.42	12.42	03/07/07	5.07	7.35
		12.42	12.42	12/13/06	5.19	7.23
		12.42	12.42	09/26/06	5.28	7.14
		12.42	12.42	07/11/06	4.98	7.44
		12.42	12.42	04/11/06	3.50	8.92
		12.42	12.42	08/23/05	5.46	6.96
		12.42	12.42	02/28/05	5.38	7.04
		12.42	12.42	11/08/04	6.20	6.22
		12.42	12.42	06/15/04	6.35	6.07
First	MW16-06	11.60	11.60	03/07/07	3.95	7.65
		11.60	11.60	12/12/06	4.68	6.92
		11.60	11.60	09/26/06	4.37	7.23
		11.60	11.60	07/11/06	4.11	7.49
		11.60	11.60	04/11/06	3.06	8.54
		11.60	11.60	08/23/05	12.72	-1.12
		11.60	11.60	02/28/05	3.93	7.67
		11.60	11.60	11/08/04	5.03	6.57
		11.60	11.60	06/15/04	5.45	6.15
First	F16SS-MW06	11.12	11.12	03/07/07	4.92	6.20
		11.12	11.12	12/12/06	5.24	5.88
		11.12	11.12	09/26/06	5.43	5.69
		11.12	11.12	07/11/06	5.15	5.97
		11.12	11.12	04/11/06	4.21	6.91
		11.12	11.12	08/23/05	5.44	5.68
		11.12	11.12	02/28/05	4.36	6.76
		11.12	11.12	11/11/04	4.37	6.75
		11.12	11.12	06/15/04	5.42	5.70

Notes:
BTOC = below top of casing
msl = mean sea level

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

Table 3.5-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	608MJ-MW2	2007 01 (Spring)	< 50.0	< 50.0	< 300	120	120	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	130	25.0 J	< 1.0	110	1.1	< 1.0	< 1.0	< 1.0	< 1.0
		2006 03 (Fall)	< 50.0	< 50.0	< 300	91.0	91.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	78.0	49.0	< 0.70	61.0	0.50 J	< 0.70	< 0.70	< 0.70	0.40 J
		2006 01 (Spring)	< 50.0	< 50.0	< 300	22.0 J	22.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	14.0	1.8	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	17.0	3.8	< 0.50	11.0	0.20 J	< 0.50	< 0.50	< 0.50	1.1
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	53.0	53.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	50.0	11.0	0.20 J	67.0	0.50	< 0.50	< 0.50	< 0.50	3.7
		2003 04 (Winter)	< 190	< 290	< 190	28.0 J	28.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	14.0	7.3	0.21 J	55.0	0.52 J	< 1.0	< 0.50	< 1.0	1.0
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	21.0	4.8	< 1.0	40.0	0.61 J	< 1.0	< 0.50	< 1.0	2.2
		2002 04 (Winter)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	59.0	34.0	< 0.50	61.0	0.40 J	< 0.50	< 0.50	< 0.50	0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	10.0	4.2	< 0.50	36.0	0.30 J	< 0.50	< 0.50	< 0.50	4.3
	F16SS-MW06	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.50	< 0.50	0.60	< 0.50	< 0.090	< 0.50	0.80	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 17.0	< 4.2	< 4.2	0.80 J	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	0.90 J	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	2.1	< 2.0	0.60 J	< 2.0	< 2.0	< 2.0	0.80 J	< 2.0	1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	0.90	< 0.50	0.50	< 0.50	< 0.50	0.80	0.90	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.40 J	< 0.50	0.60	< 0.50	< 0.50	0.80	0.90	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW16-05	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.090 J	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	3.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	0.80	< 0.50	0.20 J	< 0.50	0.50	< 0.50	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	3.2	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50
	MW16-06	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.90	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	1.0	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.080 J	< 0.50	0.90	< 0.50	0.090 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	5.3	0.10 J	0.40 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	9.3	0.10 J	0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW16-06	2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	17.0	0.50 J	0.50	< 0.50	< 0.50	< 0.50
	MWC2-1	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	2200	990	780	< 50.0	3970	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	< 0.20 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
	MWC2-2	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	3.9	27.0	1.2	6.8	< 0.50	2.5	< 0.50	0.60	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	8.6	62.0	2.6	13.0	< 0.50	1.7	< 0.50	1.9	0.90	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	130	580	< 300	760	1470	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	130	830	26.0	140	< 5.0	< 5.0	< 5.0	7.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2004 02 (Summer)	< 50.0	77.0	< 300	260	337	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	30.0	200	6.4	30.0	< 1.0	1.8	< 1.0	2.2	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	1.7	41.0	2.0	8.2	< 1.0	2.7	< 1.0	0.60 J	0.36 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 200	1400	< 200	4600	6000	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	9.2	4500	130	520	0.22 J	5.3	< 1.0	1.9	0.44 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0 UJ	5.6 J	2100	32.0 J	230	< 1.0 UJ	4.7 J	< 1.0 UJ	2.0 J	0.46 J	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 02 (Summer)	-	-	-	-	-	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	3.8	480	16.0	76.0	< 1.0	2.0 J	< 1.0	0.98 J	0.21 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	3.6	170	9.6	40.0	< 0.50	2.9	< 0.50	1.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 13.0	< 3.1	170	1800	55.0	280	< 3.1	3.4	< 3.1	7.2	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	2.6	200	12.0	54.0	< 0.50	4.4	< 0.50	1.5	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	130	< 300	230	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	2.6	240	11.0	48.0	< 1.0	3.8	< 1.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	MWC2-3	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 14.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 91.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MWC2-3	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	86.0	< 50.0	< 300	< 50.0	86.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	0.37 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	0.54 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	0.50 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.30 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-4
Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 1 - IR Site 16
Fall/Winter 2004 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	UG/L
		MCL:	**NA**
		BV:	**NA**
	Well Number	Event ***AWQC:***	**NA**
FWBZ	608MJ-MW2	2007 01 (Spring)	**0.38 J**
		2006 03 (Fall)	< 1.0
		2006 01 (Spring)	**0.52 J**
		2005 02 (Summer)	< 0.96
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	< 0.96
	F16SS-MW06	2007 01 (Spring)	< 0.95
		2006 03 (Fall)	< 0.94
		2005 01 (Spring)	< 0.94
		2005 02 (Summer)	< 0.94
		2004 04 (Winter)	< 0.97
	MW16-05	2007 01 (Spring)	< 0.94
		2006 03 (Fall)	< 0.95
		2006 01 (Spring)	**0.31 J**
		2005 02 (Summer)	< 0.96
		2005 01 (Spring)	**0.32 J**
		2004 04 (Winter)	< 0.97
	MW16-06	2007 01 (Spring)	< 0.94
		2006 03 (Fall)	< 0.95
		2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.95
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	< 0.98
	MWC2-1	2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.94
		2004 04 (Winter)	**4.1 J**
	MWC2-2	2005 01 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.97
	MWC2-3	2007 01 (Spring)	< 0.94
		2006 03 (Fall)	< 0.95
		2006 01 (Spring)	<0.95
		2005 02 (Summer)	< 0.95
		2005 01 (Spring)	< 0.94
		2004 04 (Winter)	< 0.95

Table 3.5-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	608MJ-MW2	2007 01 (Spring)	< 0.70	2.9 J	-	< 2.0	0.098 J	< 0.53	-	0.93 J	< 0.77	-	< 0.20	-	6.0 J	< 5.0	< 5.0	< 5.0	-	11.0 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	5.5	-	< 2.0	0.10 J	< 10.0	-	1.8 J	< 3.0	-	< 0.20	-	8.7 J	< 5.0	< 5.0	< 5.0	-	**58.0 J**	-	-	-	-	-	-
		2006 01 (Spring)	0.13 J	3.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	6.3 J	< 5.0	< 5.0	2.2 J	-	6.7 J	-	-	-	-	-	-
		2005 02 (Summer)	1.4	10.0	100	< 2.0	0.37 J	1.2 J	0.94 J	< 10.0	< 3.0	63.0	< 0.20	< 20.0	6.0 J	< 5.0	< 5.0	< 5.0	9.1 J	< 20.0	< 100	48.0 J	41.0	10.0	15.0	23.0
		2004 04 (Winter)	0.87 J	< 5.0	30.0	< 2.0	0.64 J	< 10.0	3.8	13.0	1.1 J	110	< 0.20	1.0 J	17.0 J	< 5.0	< 5.0	< 5.0	2.1 J	7.0 J	< 100	31.0 J	17.0	4.2	5.1	14.0
		2004 02 (Summer)	1.8	10.0	110	< 1.0	**28.0**	0.18 J	**70.0**	**90.0**	**270**	1200	< 0.20	1.9 J	**71.0**	< 1.0	< 1.0	0.29 J	17.0	**260**	< 50.0	790	37.0	11.0	22.0	16.0
		2003 04 (Winter)	< 5.0	19.0 J	94.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	2.5 J	57.1	< 0.40 UJ	< 50.0	18.3 J	< 20.0	< 10.0	-	14.8 J	< 20.0	< 200	< 100	37.4 J	11.9 J	17.8 J	18.3 J
		2003 02 (Summer)	< 50.0	14.9 J	75.4 J	< 4.0	< 5.0	< 10.0	3.5 J	< 10.0	< 10.0	184	< 0.40 UJ	< 50.0	**28.1**	< 20.0	< 10.0	< 5.0	3.5 J	8.4 J	< 200	33.6 J	33.9	10.4	9.9 J	21.0
		2002 04 (Winter)	0.93 J	< 5.0	200	< 2.0	**45.0**	< 10.0	**290**	**210**	**450**	**3900**	< 0.20	< 20.0	**550**	0.43 J	< 5.0	< 2.0	8.2 J	**360 J**	< 100	5500	110	33.0	17.0	27.0
		2002 02 (Summer)	0.50 J	3.0 J	57.0	0.085 J	0.089 J	0.68 J	0.28 J	0.76 J	0.25 J	85.0	< 0.20	< 20.0	0.81 J	< 5.0	0.053 J	< 2.0	0.69 J	2.9 J	5.7 J	78.0 J	29.0	7.4	10.0	10.0
	MW16-05	2007 01 (Spring)	< 0.77	13.0	-	< 2.0	0.099 J	5.9 J	-	4.7 J	< 3.0	-	< 0.20	-	**63.0**	2.9 J	< 5.0	< 5.0	-	12.0 J	-	-	-	-	-	-
		2006 03 (Fall)	0.88 J	13.0	-	< 2.0	< 5.0	10.0	-	-	< 3.0	-	0.043 J	-	< 20.0	5.8	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	7.9	-	0.24 J	0.42 J	1.8 J	-	< 10.0	< 3.0	-	< 0.20	-	2.8 J	< 5.0	< 5.0	< 5.0	-	2.7 J	-	-	-	-	-	-
		2005 02 (Summer)	0.70 J	19.0	19.0	< 2.0	< 5.0	2.0 J	0.12 J	2.6 J	< 3.0	71.0	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	1.5 J	12.0	1.7 J	< 100	40.0 J	14.0	10.0	21.0	530
		2004 04 (Winter)	< 1.0	**25.0**	10.0	< 2.0	< 5.0	< 10.0	0.096 J	0.90 J	0.34 J	29.0	< 0.20	3.7 J	< 20.0	< 5.0	< 5.0	< 5.0	13.0	3.3 J	< 100	50.0 J	6.7	4.5	14.0	410
		2004 02 (Summer)	2.8	**35.0**	7.4	< 1.0	< 1.0	1.5	0.12 J	1.2	0.12 J	12.0	< 0.20	4.2 J	1.4	1.5	< 1.0	< 1.0	**41.0**	14.0	16.0 J	27.0 J	4.5 J	3.2	11.0	380
	MW16-06	2007 01 (Spring)	< 0.59	7.1	-	< 2.0	< 5.0	4.0 J	-	2.3 J	< 0.77	-	< 0.13	-	16.0 J	2.2 J	< 5.0	< 5.0	-	13.0 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	6.3	-	< 2.0	0.060 J	3.9 J	-	2.9 J	< 3.0	-	< 0.20	-	17.0 J	7.3	< 5.0	< 5.0	-	11.0 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	9.7	-	< 2.0	< 5.0	2.3 J	-	3.9 J	< 3.0	-	< 0.20	-	2.2 J	< 5.0	< 5.0	< 5.0	-	14.0 J	-	-	-	-	-	-
		2005 02 (Summer)	1.8	15.0	< 10.0	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	< 3.0	3.5 J	< 0.20	8.1 J	< 20.0	4.2 J	< 5.0	< 5.0	16.0	7.1 J	< 100	12.0 J	6.5	3.7	< 10.0	120
		2004 04 (Winter)	1.1	**24.0**	5.8 J	< 2.0	< 5.0	< 10.0	0.096 J	3.2 J	0.44 J	< 10.0	< 0.20	7.0 J	< 20.0	< 5.0	< 5.0	0.27 J	19.0	4.4 J	3.0 J	< 100	5.3	2.6	9.8	210
		2004 02 (Summer)	3.4	**25.0**	6.3	< 1.0	< 1.0	0.78 J	0.20 J	2.9	0.16 J	7.6	< 0.20	9.7	2.0	1.4	< 1.0	< 1.0	24.0	9.9	21.0 J	29.0 J	4.5 J	2.6	9.2	180
	MWC2-1	2005 02 (Summer)	0.93 J	**28.0**	12.0	< 2.0	< 5.0	< 10.0	0.67 J	17.0	< 3.0	35.0	< 0.20	< 20.0	4.5 J	< 5.0	< 5.0	< 5.0	**28.0**	22.0	< 100	44.0 J	5.3	1.6	6.2	120
		2004 04 (Winter)	2.5	7.2	39.0	< 2.0	< 5.0	1.1 J	0.071 J	4.3 J	0.27 J	3.1 J	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 5.0	11.0	9.8 J	< 100	74.0 J	18.0	5.2	6.8	62.0
		2004 02 (Summer)	1.1	**37.0**	27.0	< 1.0	< 1.0	1.5	0.19 J	9.7	0.54 J	16.0	0.051 J	3.6 J	3.2	2.8	< 1.0	< 1.0	**100**	14.0	25.0 J	< 100	11.0	3.9	8.1	120
		2003 04 (Winter)	< 5.0	16.0 J	29.2 J	< 4.0	< 5.0	< 10.0	< 10.0	7.8 J	< 10.0	23.7	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	6.7 J	< 20.0	119 J	167	13.5 J	4.7 J	8.6 J	88.4 J
		2003 02 (Summer)	< 50.0	**31.1 J**	24.6 J	< 4.0	< 5.0	< 10.0	< 10.0	12.9	< 10.0	41.7 J	-	< 50.0	< 20.0	5.5 J	< 10.0	< 5.0	10.3 J	4.6 J	30.3 J	62.4 J	8.3	3.4	9.4 J	124 J
		2002 04 (Winter)	< 50.0	5.0	71.0	< 2.0	< 5.0	< 10.0	0.11 J	1.2 J	0.082 J	20.0	< 0.20	< 20.0	0.84 J	< 5.0	< 5.0	< 2.0	4.9 J	3.1 J	< 100	< 150	23.0	11.0	10.0	34.0
		2002 02 (Summer)	0.29 J	**28.0**	57.0	< 2.0	< 5.0	2.0 J	0.22 J	5.3 J	0.14 J	26.0	0.072 J	4.1 J	2.5 J	< 5.0	< 5.0	< 2.0	8.8 J	3.4 J	13.0 J	170	67.0	3.0	11.0	200
	MWC2-2	2005 02 (Summer)	0.68 J	1.8 J	120	< 2.0	< 5.0	1.2 J	1.2	5.6 J	< 3.0	46.0	< 0.20	< 20.0	2.7 J	**14.0**	< 5.0	2.7 J	6.0 J	18.0 J	< 100	26.0 J	**210**	83.0	42.0	89.0
		2004 04 (Winter)	1.3	4.9 J	76.0	< 2.0	0.20 J	< 10.0	0.65 J	5.3 J	0.27 J	88.0	< 0.20	6.5 J	< 20.0	< 5.0	< 5.0	< 5.0	5.3 J	5.5 J	< 100	< 100	110	43.0	35.0	140

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.5-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	MWC2-2	2004 02 (Summer)	2.0	2.6	96.0	< 1.0	< 1.0	1.8	2.2	8.9	0.069 J	280	< 0.20	5.8	9.0	**13.0**	< 1.0	< 1.0	4.2	12.0	< 50.0	< 100	150	60.0	41.0	93.0
		2003 04 (Winter)	< 5.0	< 50.0	108	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	769	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	**240 J**	99.6 J	40.1 J	60.4 J
		2003 02 (Summer)	< 50.0	< 50.0	138	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	< 10.0	267	< 0.40 UJ	< 50.0	2.3 J	< 20.0	< 10.0	< 5.0	1.6 J	< 20.0	< 200	< 100	**196**	82.0	36.4 J	86.3
		2002 04 (Winter)	< 50.0	< 5.0	120	< 2.0	< 5.0	< 10.0	0.26 J	0.94 J	0.10 J	300	< 0.20	1.8 J	3.9 J	0.67 J	< 5.0	< 2.0	< 10.0	0.84 J	< 100	530	110	45.0	26.0	110
		2002 02 (Summer)	0.13 J	1.5 J	160	< 2.0	< 5.0	2.1 J	0.13 J	1.1 J	0.058 J	120	0.046 J	< 20.0	1.7 J	0.93 J	< 5.0	< 2.0	2.4 J	1.6 J	< 3.0 J	200	82.0	32.0	23.0	89.0
	MWC2-3	2007 01 (Spring)	< 0.44	1.9 J	-	< 2.0	< 5.0	< 0.47	-	0.57 J	< 3.0	-	< 0.091	-	0.72 J	< 5.0	< 5.0	< 5.0	-	11.0 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	2.1 J	-	0.23 J	0.29 J	< 10.0	-	1.4 J	< 3.0	-	< 0.20	-	< 20.0	0.35 J	< 5.0	0.39 J	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	0.79 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	2.1 J	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.63 J	6.4	37.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	22.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.8 J	< 20.0	< 100	32.0 J	13.0	4.9	7.9	17.0
		2004 04 (Winter)	1.1	< 5.0	98.0	< 2.0	< 5.0	< 10.0	0.12 J	1.6 J	0.29 J	72.0	< 0.20	0.74 J	< 20.0	< 5.0	< 5.0	0.18 J	1.5 J	4.8 J	< 100	150	42.0	14.0	14.0	18.0
		2004 02 (Summer)	0.41 J	2.0	34.0	< 1.0	< 1.0	0.26 J	0.086 J	0.79 J	< 1.0	22.0	< 0.20	< 5.0	0.53 J	0.91 J	< 1.0	< 1.0	1.5	6.4	< 50.0	< 100	13.0	4.5	7.9	14.0
		2003 04 (Winter)	< 5.0	< 50.0	81.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	77.4	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	30.0 J	12.4	13.3	17.2
		2003 02 (Summer)	< 50.0	< 50.0	64.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	64.3	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	22.3	9.6	10.0 J	16.8
		2002 04 (Winter)	< 50.0	< 5.0	83.0	< 2.0	< 5.0	< 10.0	0.15 J	3.1 J	< 3.0	54.0	< 0.20	< 20.0	2.0 J	< 5.0	< 5.5	< 2.0	3.4 J	8.0 J	< 100	< 160	23.0	9.6	13.0	18.0
		2002 02 (Summer)	0.26 J	1.6 J	53.0	< 2.0	< 5.0	0.40 J	0.082 J	0.53 J	0.039 J	44.0	< 0.20	< 20.0	0.57 J	< 5.0	< 5.0	< 2.0	1.7 J	1.3 J	< 100	37.0 J	17.0	6.3	10.0	17.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3.5-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	608MJ-MW2	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 03 (Fall)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
	F16SS-MW06	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 03 (Fall)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
	MW16-05	2007 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2006 03 (Fall)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	MW16-05	2005 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2004 04 (Winter)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
	MW16-06	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 03 (Fall)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.80
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
	MWC2-1	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
	MWC2-2	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
	MWC2-3	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 03 (Fall)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	MWC2-3	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97

Table 3.5-7

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	608MJ-MW2	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.030 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.020 J	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.030 J	0.020 J	< 0.10	< 0.10	< 0.10	< 0.10	0.0090 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.020 J	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.0080 J	0.0050 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0060 J	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.010 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.010 J	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.0070 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0070 J	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	0.040 J	< 0.050	< 0.050	0.040 J	0.020 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.020 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	0.023 J	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.014 J	< 0.040 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040 UJ	< 0.49	< 4.9
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.042 J	0.013 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	0.041 J	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	0.013 J	< 0.48 UJ	< 4.8 UJ
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.010 J	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	0.010 J	< 0.50 UJ	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 0.95
		2002 03 (Fall)	< 0.040 UJ	< 0.040 UJ	< 0.047 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.040 UJ	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.027 J	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	0.013 J	< 0.48	< 0.95
	F16SS-MW06	2007 01 (Spring)	< 0.050	0.010 J	< 0.050	0.010 J	< 0.050	0.020 J	0.0050 J	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	0.0050 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	0.020 J	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.010 J	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	0.010 J	< 0.50	< 0.90
		2006 01 (Spring)	0.010 J	< 0.050	< 0.050	0.010 J	< 0.050	0.010 J	0.020 J	< 0.090	< 0.090	< 0.090	< 0.090	0.030 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.0050 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	0.0050 J	< 0.50	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	0.0070 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.0090 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.010 J	< 0.50	< 1.0
	MW16-05	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.0040 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	MW16-06	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2006 03 (Fall)	< 0.050	< 0.050	0.0040 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-7

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	MW16-06	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	0.0070 J	< 0.050	< 0.050	< 0.050	0.040 J	< 0.090	0.020 J	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.0090 J	< 0.050	0.10 J	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	0.10 J	0.0060 J	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	MWC2-3	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	0.0050 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040 UJ	< 0.040 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040 UJ	< 0.040 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040 UJ	< 0.48	< 4.8
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.040 UJ	< 0.040 UJ	< 0.48 UJ	< 4.8 UJ
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050 UJ	< 0.050	< 0.50 UJ	< 0.90
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.040	< 0.040	< 0.47 UJ	< 0.94
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 0.97

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-8
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 16
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW16-05	04/03/07	8.32	1.39	17.3
		10/05/06	8.25	3.12	-32.8
		5/2/2006	7.53	7.74	-125.0
		09/15/05	7.51	4.24	-60.0
		03/22/05	8.13	0.00	-168.0
		11/11/04	8.20	0.58	220.0
		07/08/04	8.01	0.83	-56.0
First	MW16-06	04/03/07	7.71	1.67	27.9
		10/10/06	7.90	3.49	-190.8
		5/2/2006	7.82	3.27	48.0
		09/14/05	8.06	3.77	-11.0
		03/21/05	7.50	***19.99***	112.0
		11/10/04	8.15	1.10	193.0
		07/08/04	8.11	0.38	-132.0
First	608MJ-MW2	04/03/07	7.02	1.50	36.6
		10/10/06	7.53	0.82	-271.9
		5/1/2006	6.97	1.79	54.0
		09/14/05	371.00	0.29	77.0
		03/22/05	6.77	0.00	5.0
		11/11/04	6.80	3.08	223.0
		07/07/04	7.13	4.80	174.0
		03/03/04	7.52	0.48	188.0
		12/04/03	7.72	0.44	97.0
		09/18/03	7.60	0.45	80.0
		07/02/03	7.55	0.25	103.0
		04/11/03	7.17	0.18	1.3
		12/24/02	7.43	1.51	-18.0
		09/04/02	7.68	1.77	28.0
		06/17/02	7.68	0.36	125.9
First	F16SS-MW06	3/29/2007	6.70	1.27	63.3
		10/5/2006	7.98	0.58	-30.9
		5/2/2006	6.79	5.73	129.0
		09/14/05	7.91	0.43	10.0
		03/22/05	7.29	2.71	-21.0
		11/10/04	7.81	0.55	190.0
		07/08/04	7.64	0.80	-32.0
First	MWC2-1	09/14/05	8.26	0.04	-82.0
		03/23/05	7.43	0.92	10.0
		11/10/04	7.61	6.47	235.0
		07/07/04	7.92	6.19	34.0
		03/03/04	8.21	0.50	358.0
		12/04/03	8.07	0.30	79.0
		09/18/03	8.19	0.31	113.0
		07/03/03	8.28	0.25	134.0
		04/11/03	8.25	0.26	198.0
		12/24/02	7.58	1.17	80.0
		09/04/02	8.07	NM	NM

Table 3.5-8
Groundwater Sampling Field Parameters at Operable Unit 1 - IR Site 16
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MWC2-1	06/17/02	8.23	0.36	184.1
		09/14/05	7.08	NM	119.0
		03/22/05	7.25	***19.99***	122.0
		11/11/04	7.10	8.64	189.0
		07/07/04	7.04	***20.94***	-106.0
		03/03/04	7.25	***19.80***	316.0
		12/04/03	7.24	0.20	112.0
		09/19/03	7.24	0.58	194.0
		07/02/03	7.20	2.30	190.0
		04/10/03	7.49	1.87	98.0
		12/26/02	7.55	1.09	118.0
		09/04/02	7.07	***11.50***	***895.0***
		06/17/02	7.28	***11.00***	0.0
First	MWC2-3	04/03/07	7.59	***1.58***	33.9
		10/10/06	7.78	***1.81***	118.9
		5/2/2006	7.12	2.71	61.0
		09/14/05	7.48	0.19	55.0
		03/22/05	7.04	1.95	-33.0
		11/10/04	7.36	0.17	195.0
		12/24/02	7.25	0.41	171.0
		09/04/02	7.56	0.17	17.1
		06/17/02	7.60	***10.64***	177.0
		07/07/04	6.98	3.70	190.0
		03/03/04	7.18	1.85	222.0
		12/05/03	7.45	0.61	109.0
		09/18/03	7.50	0.30	114.0
		07/02/03	7.52	0.36	188.0
		04/11/03	7.42	0.76	183.0

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts
NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 3.5-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	608MJ-MW2	2007 01 (Spring)	< 0.0050	< 0.0050	0.0060	0.090	0.010 J	13.0	46.0	250	250	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0080	0.44	0.050	9.9	23.0	200	200	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	0.042	0.030 J	0.040 J	17.0	34.0	140	140	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.0030 J	0.34	< 0.050	6.2	26.0	59.0	59.0	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	0.046	0.32	< 0.050	7.4	32.0	150	150	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.020	< 0.10	< 0.10	9.3	15.0	129	129	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.057	< 0.10	< 0.10	10.1	16.0	132	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.66 J	< 0.050 UJ	12.0	200	270	270	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.042	< 0.050	< 0.050	6.7	12.0	110	110	< 1.0	< 1.0	< 0.040	-
	F16SS-MW06	2007 01 (Spring)	< 0.0050	< 0.0050	0.18	0.57	< 0.050	9.3	25.0	130	130	< 5.0	< 5.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	1.8	< 0.050	7.3	20.0	130	130	< 1.0	< 1.0	< 0.040	240
		2005 02 (Summer)	< 0.0050	< 0.0050	0.068	0.14	< 0.050	11.0	42.0	200	200	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.077	0.14	< 0.050	11.0	20.0	96.0	96.0	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	0.084	0.15	< 0.050	8.6	19.0	120	120	< 1.0	< 1.0	< 0.040	-
	MW16-05	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.62	< 0.050	270	75.0	290	290	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	1.4	< 0.050	< 0.10	620	90.0	540	540	< 1.0	< 1.0	< 0.040	-

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW16-05	2005 02 (Summer)	< 0.0050	< 0.0050	0.034	0.32	< 0.10	510	110	310	310	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.31	0.030 J	< 0.050	380	83.0	300	300	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	0.011	0.19	< 0.050	230	58.0	340	320	12.0	< 1.0	< 0.040	-
	MW16-06	2007 01 (Spring)	< 0.0050	< 0.0050	0.050	1.2	< 0.050	13.0	41.0	250	250	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	0.015	0.82	< 0.050	7.8	23.0	160	160	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	0.21	0.29	< 0.050	14.0	57.0	250	250	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.12	0.14	< 0.050	16.0	76.0	320	320	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	0.14	0.56	< 0.050	21.0	64.0	260	260	< 1.0	< 1.0	< 0.040	-
	MWC2-1	2005 02 (Summer)	< 0.0050	< 0.0050	0.027	0.030 J	< 0.050	18.0	40.0	230	220	4.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0080	1.1	< 0.050	8.0	51.0	120	120	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	0.015	0.41	< 0.050	15.0	74.0	220	220	< 1.0	< 1.0	0.14	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.013	0.25	< 0.10	11.8	19.3	167	167	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.034	0.12 J	< 0.10 UJ	37.4	13.2	248	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.33	< 0.050	11.0	86.0	120	120	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.038	< 0.050	< 0.050	150	12.0	330	330	< 1.0	< 1.0	< 0.040	-
	MWC2-2	2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	2.5	< 0.050	35.0	650	380	380	< 1.0	< 1.0	< 0.040	-

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 1 - IR Site 16

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MWC2-2	2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.012	0.33	< 0.050	36.0	470	210	210	< 1.0	< 1.0	0.97	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	1.5	0.080	35.0	520	230	230	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0029 J	< 0.10	< 0.10	30.7	705	183	183	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0022 J	1.8	< 1.0	75.0	519	234	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.014	0.12	< 0.050	86.0	350	270	270	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	0.54	< 0.050	68.0	230	220	220	< 1.0	< 1.0	< 0.040	-
	MWC2-3	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.24	< 0.050	4.6	16.0	66.0	66.0	< 1.0	< 1.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.13	< 0.050	4.1	17.0	66.0	66.0	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0080	0.070	< 0.050	6.0	25.0	96.0	96.0	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0070	2.9	0.030 J	11.0	52.0	110	110	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	0.10	< 0.050	6.0	26.0	64.0	64.0	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0036	3.6	< 0.20	10.9	57.5	92.2	92.2	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0036	0.17	< 0.10	11.6	51.2	72.1	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	4.0 J	0.40 J	9.2	59.0	110	110	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	0.12	< 0.050	6.6	44.0	62.0	62.0	< 1.0	< 1.0	< 0.040	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 3.5-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 16

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 16 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Tetrachloroethene (PCE) (UG/L)	1	5	130	608MJ-MW2	03 Apr 2007	59.0	608MJ-MW2	2002 04 (Winter)
Trichloroethene (UG/L)	5	5	49.0	608MJ-MW2	10 Oct 2006	34.0	608MJ-MW2	2002 04 (Winter)
Bromodichloromethane (UG/L)	1	5	0.40 J	MWC2-3	10 Oct 2006	--	NA	NA
cis-1,2-Dichloroethene (UG/L)	5	5	110	608MJ-MW2	03 Apr 2007	67.0	608MJ-MW2	2004 02 (Summer)
TPH-Gasoline (UG/L)	1	2	120	608MJ-MW2	03 Apr 2007	4600	MWC2-2	2003 04 (Winter)
trans-1,2-Dichloroethene (UG/L)	2	5	1.1	608MJ-MW2	03 Apr 2007	0.90	MWC2-2	2005 01 (Spring)
1,1-Dichloroethane (UG/L)	1	5	0.30 J	MW16-06	10 Oct 2006	0.50	MW16-06	2004 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	1	5	0.50	F16SS-MW06	29 Mar 2007	2.1	F16SS-MW06	2005 02 (Summer)
1,2-Dichlorobenzene (UG/L)	1	5	0.80 J	F16SS-MW06	05 Oct 2006	4500	MWC2-2	2003 04 (Winter)
Vinyl Chloride (UG/L)	1	5	0.40 J	608MJ-MW2	10 Oct 2006	4.3	608MJ-MW2	2002 02 (Summer)
Chloroform (UG/L)	2	5	9.0	MWC2-3	10 Oct 2006	4.4	608MJ-MW2	2005 02 (Summer)
Chloromethane (UG/L)	1	5	0.60 J	MW16-06	03 Apr 2007	--	NA	NA
Tert-butyl alcohol (UG/L)	1	5	0.90 J	MW16-05	05 Oct 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 3.5-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 16

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 16 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
1,4 Dioxane (UG/L)	1	5	0.38 J	608MJ-MW2	03 Apr 2007	4.1 J	MWC2-1	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.5-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 16

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 16 (First Water-Bearing Zone)								
Organochlorine Pesticides								
alpha-BHC (UG/L)	1	5	0.010 J	F16SS-MW06	29 Mar 2007	--	NA	NA
beta-BHC (UG/L)	2	5	0.0050 J	MWC2-3	10 Oct 2006	0.10 J	MW16-06	2004 02 (Summer)
delta-BHC (UG/L)	1	5	0.010 J	F16SS-MW06	29 Mar 2007	0.010 J	F16SS-MW06	2006 01 (Spring)
alpha-Chlordane (UG/L)	2	5	0.030 J	608MJ-MW2	10 Oct 2006	0.042 J	608MJ-MW2	2003 03 (Fall)
gamma-Chlordane (UG/L)	3	5	0.030 J	608MJ-MW2	03 Apr 2007	0.020 J	F16SS-MW06	2006 01 (Spring)
Endosulfan I (UG/L)	2	5	0.0090 J	608MJ-MW2	10 Oct 2006	0.030 J	F16SS-MW06	2006 01 (Spring)
Heptachlor epoxide (UG/L)	2	5	0.020 J	F16SS-MW06	29 Mar 2007	0.050	F16SS-MW06	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.5-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 16

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current *Sampling Year*	Well Count with Detected *Concentrations*	Well Count Analyzed for *Parameter*	Maximum Detected *Concentration*	Location of Max Detected *Concentration*	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 16 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	3	5	0.18	F16SS-MW06	29 Mar 2007	1.4	MW16-05	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.5-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 16

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 16 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	4	0.88 J	MW16-05	05 Oct 2006	3.4	MW16-06	2004 02 (Summer)
Arsenic (UG/L)	4	4	13.0	MW16-05	05 Oct 2006	37.0	MWC2-1	2004 02 (Summer)
Beryllium (UG/L)	1	4	0.23 J	MWC2-3	10 Oct 2006	0.24 J	MW16-05	2006 01 (Spring)
Cadmium (UG/L)	4	4	0.29 J	MWC2-3	10 Oct 2006	45.0	608MJ-MW2	2002 04 (Winter)
Chromium (UG/L)	2	4	10.0	MW16-05	05 Oct 2006	2.3 J	MW16-06	2006 01 (Spring)
Copper (UG/L)	4	4	4.7 J	MW16-05	03 Apr 2007	210	608MJ-MW2	2002 04 (Winter)
Mercury (UG/L)	1	4	0.043 J	MW16-05	05 Oct 2006	0.072 J	MWC2-1	2002 02 (Summer)
Nickel (UG/L)	4	4	63.0	MW16-05	03 Apr 2007	550	608MJ-MW2	2002 04 (Winter)
Selenium (UG/L)	3	4	7.3	MW16-06	10 Oct 2006	14.0	MWC2-2	2005 02 (Summer)
Thallium (UG/L)	1	4	0.39 J	MWC2-3	10 Oct 2006	2.7 J	MWC2-2	2005 02 (Summer)
Zinc (UG/L)	4	4	58.0 J	608MJ-MW2	10 Oct 2006	360 J	608MJ-MW2	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3.5-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 1 - IR Site 16

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 1 - IR Site 16 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	5	5	290	MW16-05	03 Apr 2007	540	MW16-05	2006 01 (Spring)
Alkalinity, bicarbonate (MG/L)	5	5	290	MW16-05	03 Apr 2007	540	MW16-05	2006 01 (Spring)
Nitrate (MG/L)	5	5	1.2	MW16-06	03 Apr 2007	4.0 J	MWC2-3	2002 04 (Winter)
Nitrite (MG/L)	1	5	0.010 J	608MJ-MW2	03 Apr 2007	0.40 J	MWC2-3	2002 04 (Winter)
Chloride (MG/L)	5	5	270	MW16-05	03 Apr 2007	620	MW16-05	2006 01 (Spring)
Sulfate (as SO4) (MG/L)	5	5	75.0	MW16-05	03 Apr 2007	705	MWC2-2	2003 04 (Winter)

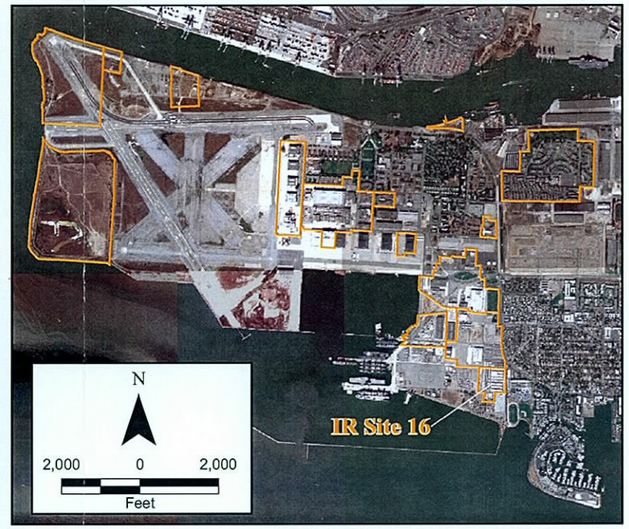
Result exceeds Maximum Contaminant Level (MCL)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- IR Site Boundary
- Facility

N

200 0 200

Feet

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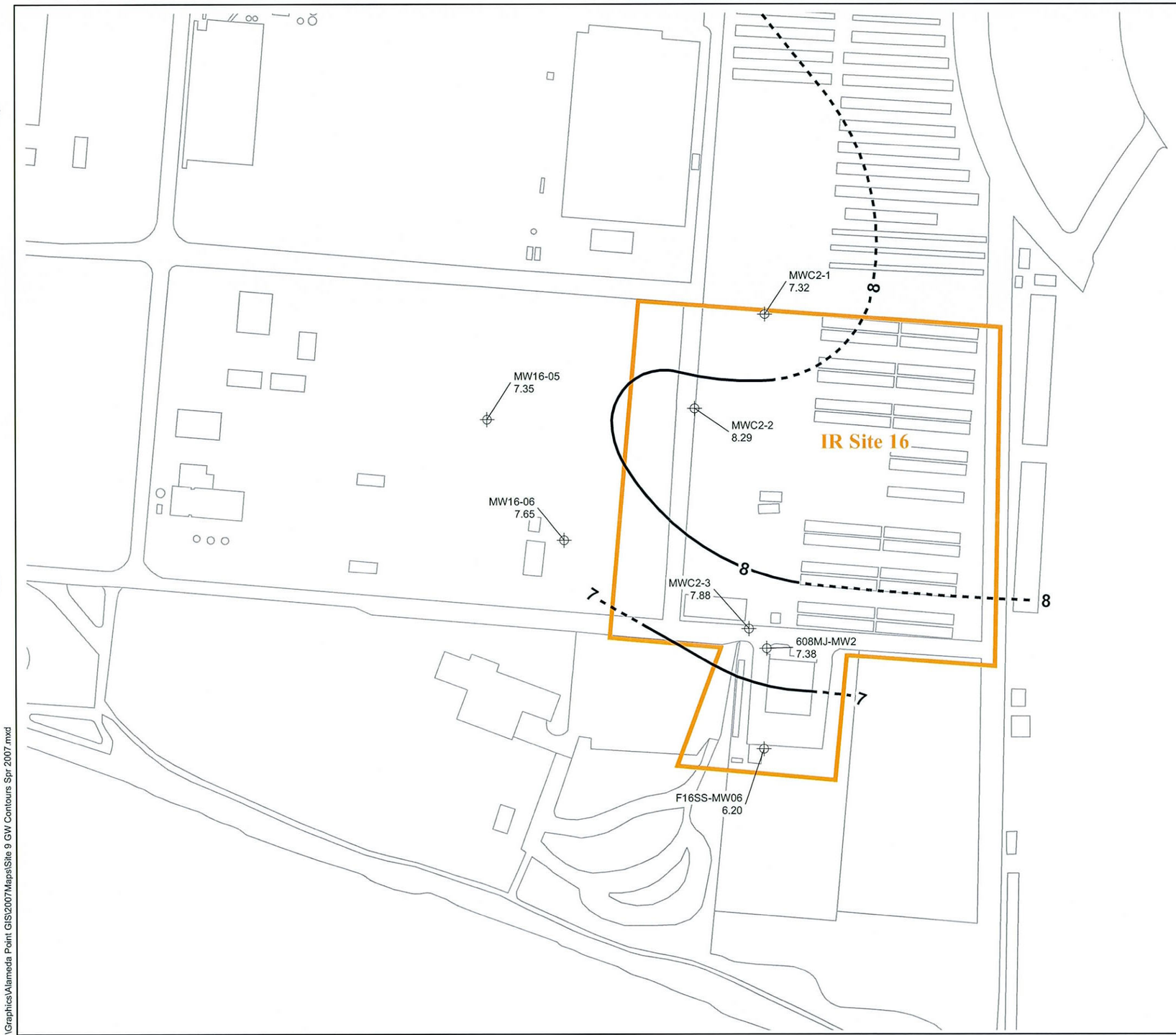
FIGURE 3.5-1
OPERABLE UNIT 1 - IR SITE 16
SITE AND WELL LOCATION MAP



Legend

- First Water Bearing Zone (FWBZ) Well
- FWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- IR Site Boundary
- Facility Infrastructure

N

200 0 200

Feet

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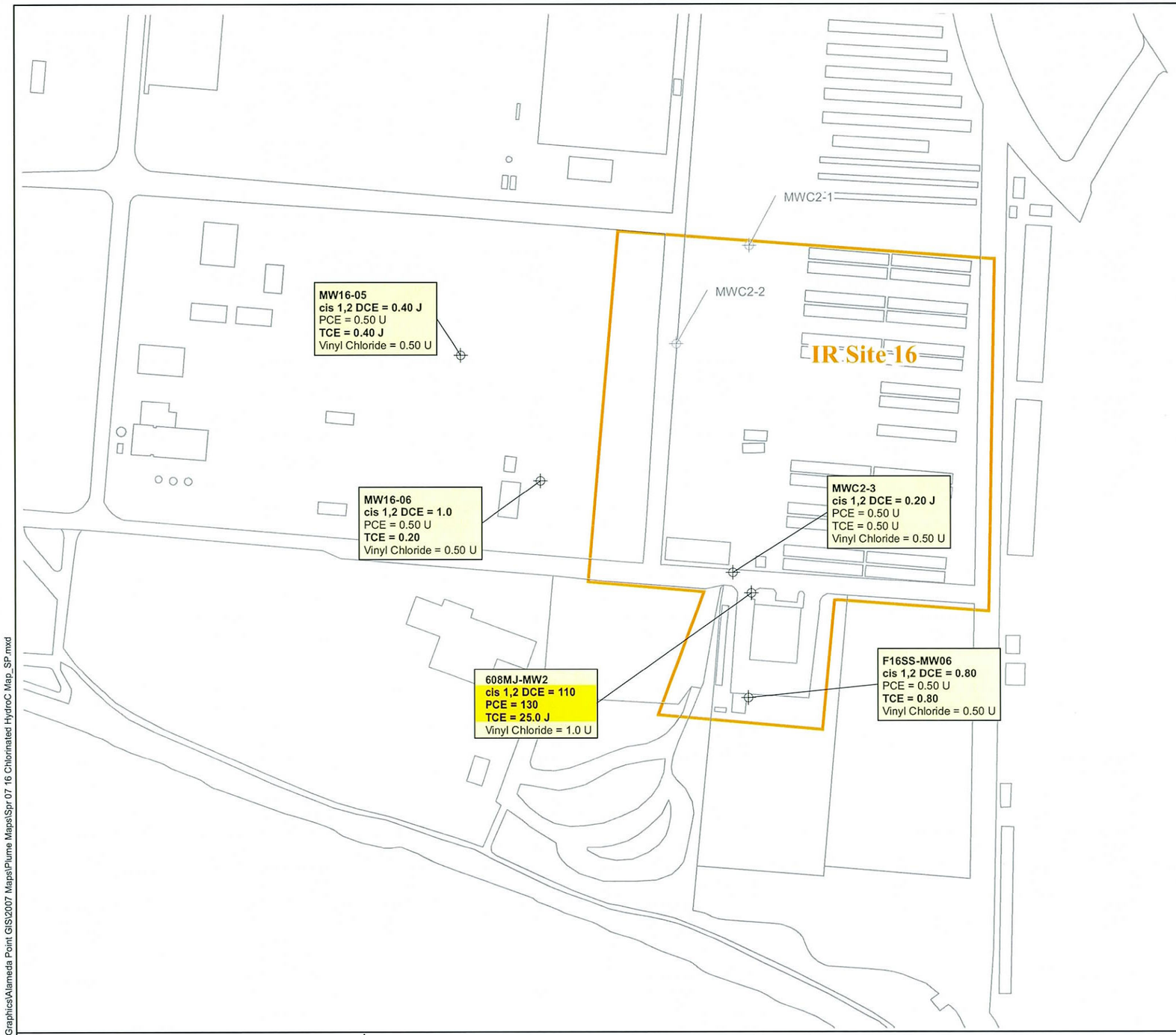
FIGURE 3.5-2
OPERABLE UNIT 1 - IR SITE 16
GROUNDWATER ELEVATION MAP (FWBZ)
SPRING 2007



Legend

- First Water Bearing Zone (FWBZ) Wells
- FWBZ Well, Not Sampled
- IR Site Boundaries
- Facility Infrastructure

DCE	Dichloroethane
PCE	Tetrachloroethene
TCE	Trichloroethene
J	Estimated Value
U	Not Detected
ug/L	micrograms per Liter

Results presented in ug/L
Highlighted values exceed MCL

Bold text indicates detected analyte

Analyte	MCL	Units
cis 1,2 DCE	6.0	UG/L
PCE	5.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

N

200 0 200

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 16 Chlorinated HydroC Map_SP.mxd

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FIGURE 3.5-3
OPERABLE UNIT 1 - IR SITE 16
GROUNDWATER CONCENTRATIONS OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2007

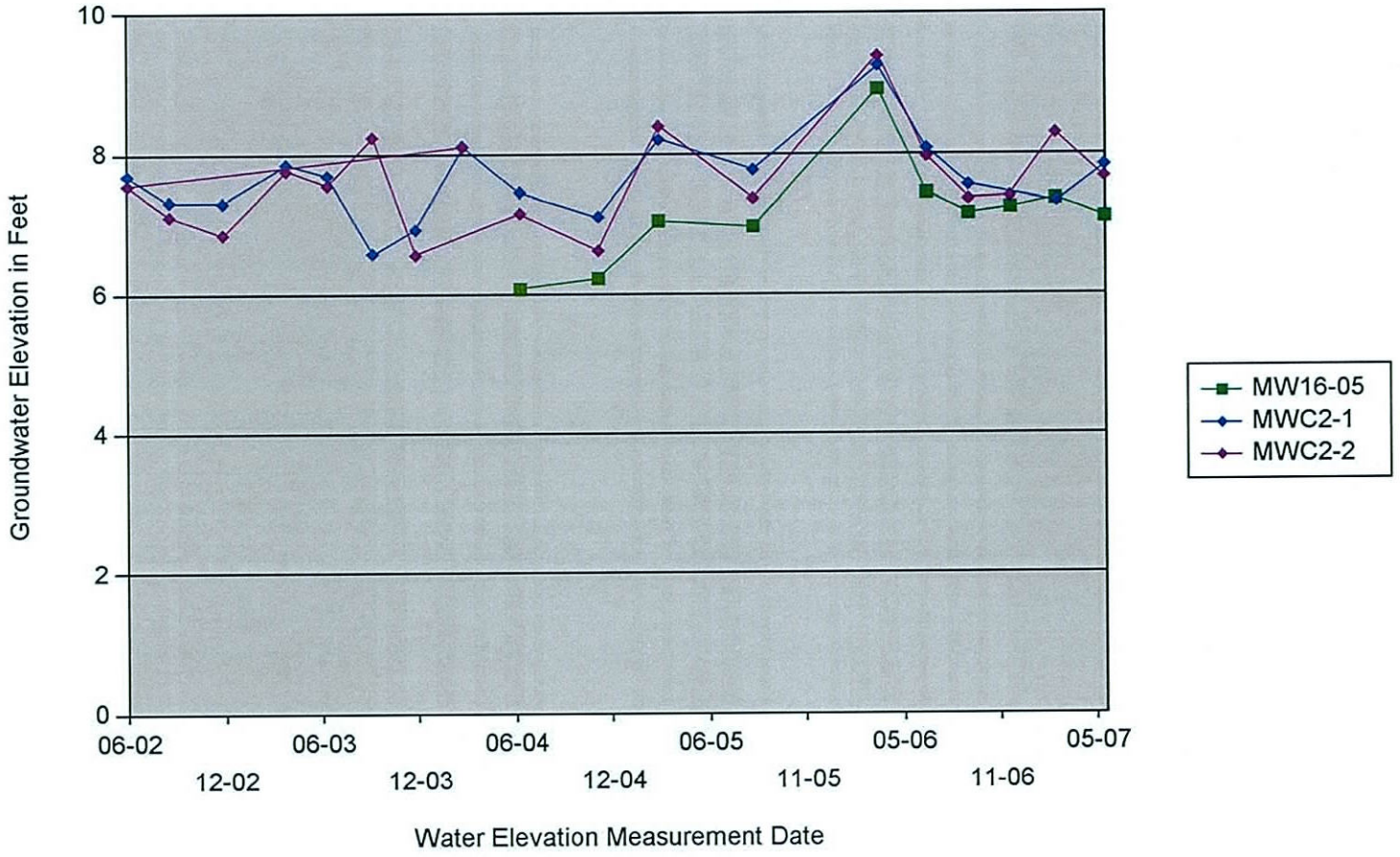

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FIGURE 3.5-4a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 16:
FWBZ WELLS LOCATED IN NORTHWEST PORTION
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 3.5-4a.ai

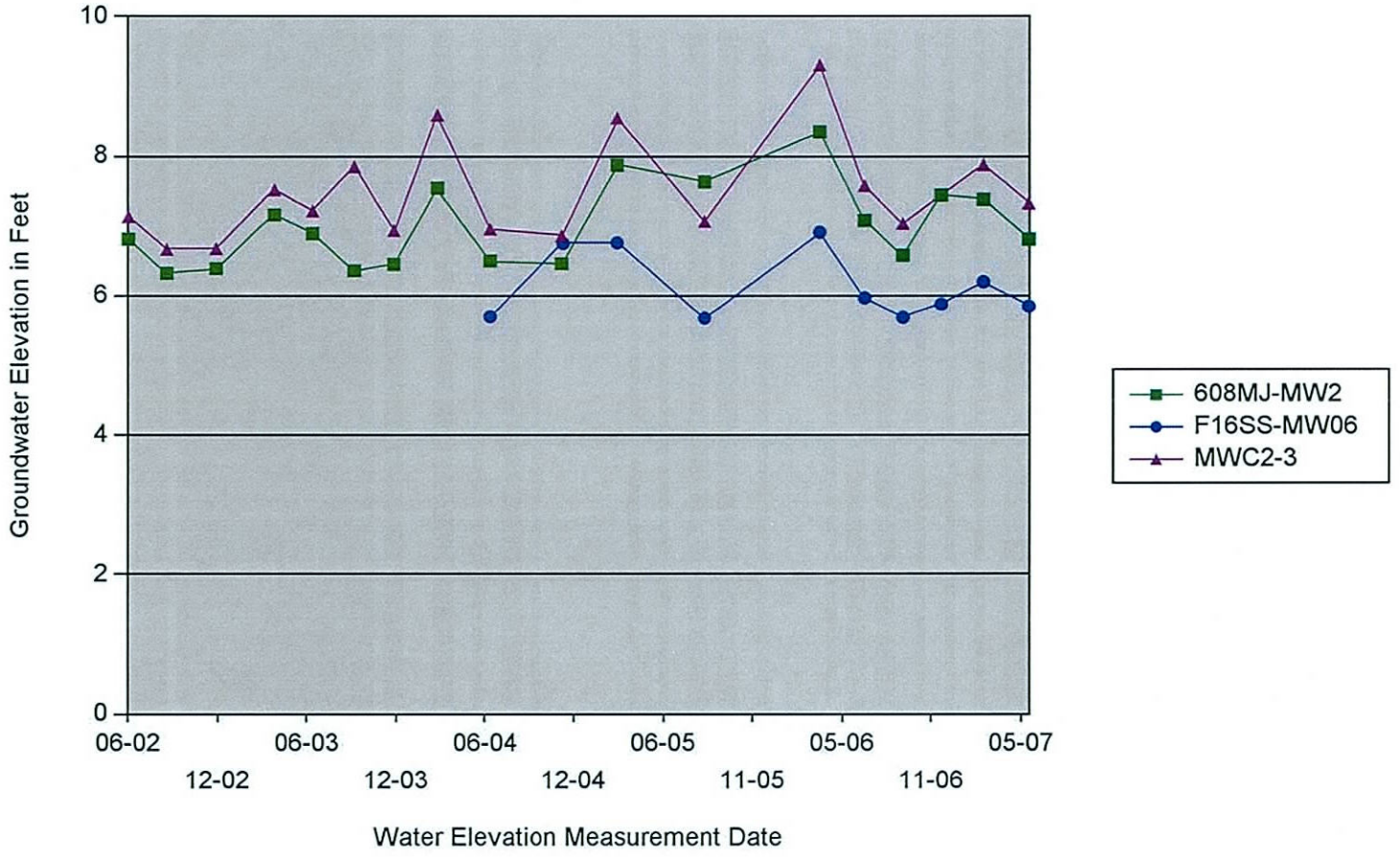

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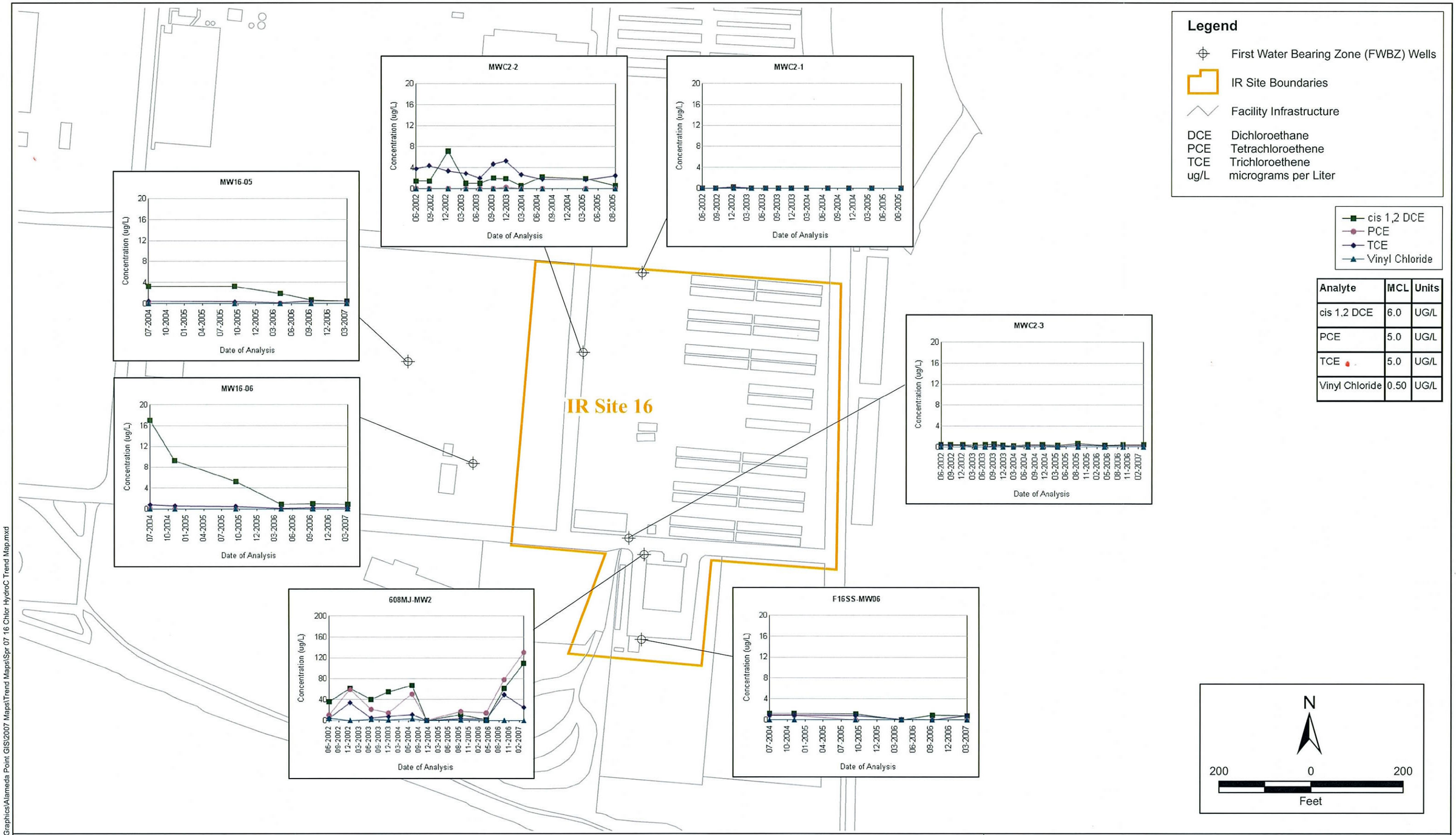
FIGURE 3.5-4b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 1- IR SITE 16:
FWBZ WELLS LOCATED IN SOUTHERN PORTION
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 3.5-4b.ai



Analyte	MCL	Units
cis 1,2 DCE	6.0	UG/L
PCE	5.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 16 Chlor HydroC Trend Map.mxd

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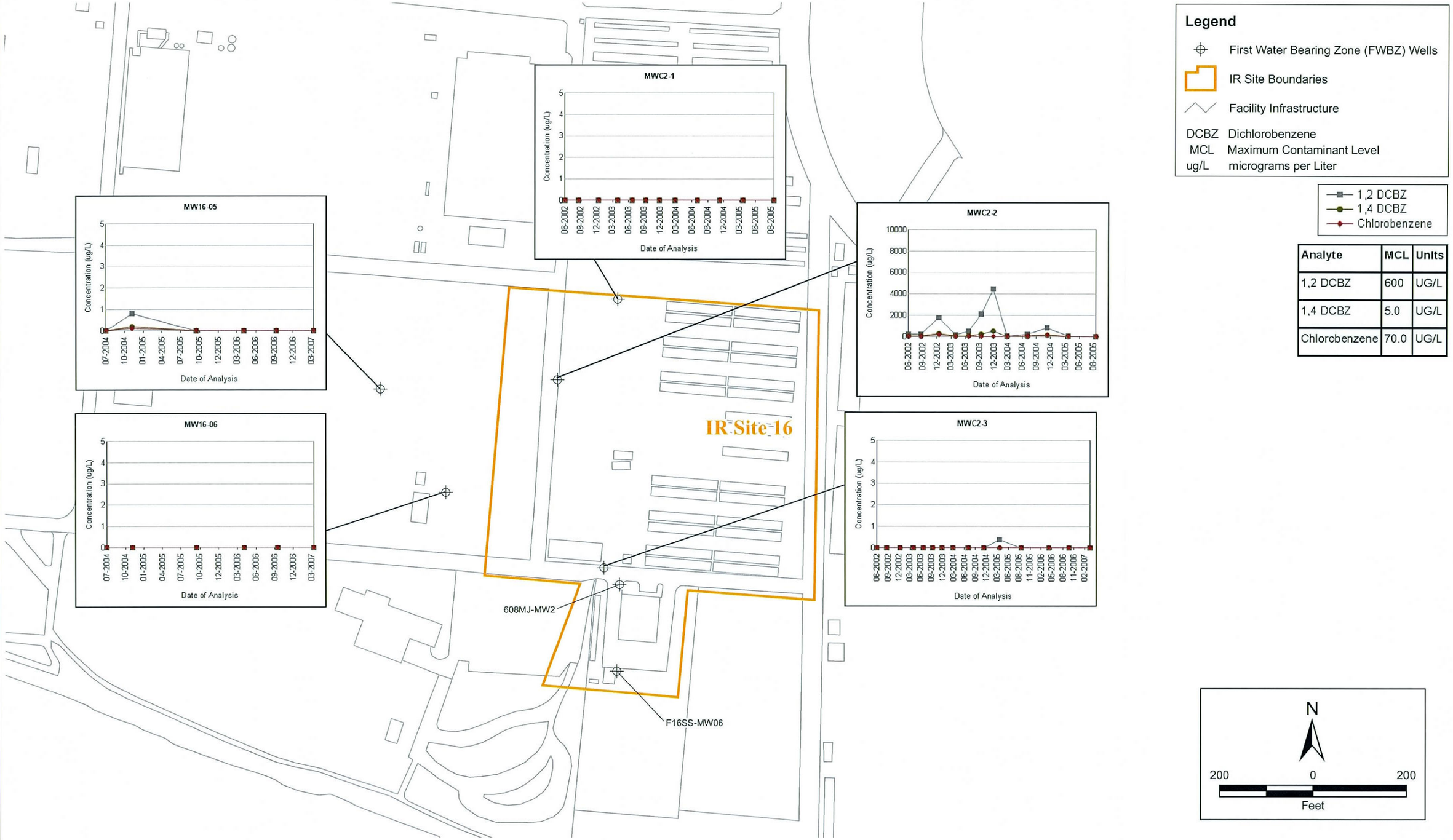
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 3.5-5
OPERABLE UNIT 1 - IR SITE 16
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007



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Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 3.5-6
OPERABLE UNIT 1 - IR SITE 16
GROUNDWATER CONCENTRATIONS OF AROMATIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

4.0 OPERABLE UNIT 2A

Operable Unit 2A is comprised of Installation Restoration Site 9 Group.

4.1 INSTALLATION RESTORATION SITE 9 GROUP

IR Site 9 Group is located in the southeastern section of Alameda Point, east of Seaplane Lagoon, and extends eastward to the Alameda Point boundary (Figure 1-2). The group includes IR Sites 9, 13, 19, 22, and 23; these sites are related to IR Site 9 and to each other mostly by their proximity to one another. These sites can be described briefly as follows:

- IR Site 9, Building 410 corrosion control facility
- IR Site 13, former (historical) oil refinery
- IR Site 19, Yard D-13, hazardous waste storage yard
- IR Site 22, Building 547, Former Service Station
- IR Site 23, Building 530, Missile Rework Operations.

Based on background site information drawn from the Draft RI Report for OU-2 (Tetra Tech, 1999b), IR Site 9 includes Building 410, peripheral Buildings 351 and 588, and adjacent open space. Building 410 was used for aircraft paint stripping operations between 1958 and 1990. Building 410 was used by a contractor from 1990 to 1996 for stockpiling soil from drilling activities. Building 351 was used to support the Building 410 corrosion control facility until 1990 and is currently abandoned. Building 588, an industrial wastewater treatment plant, was located adjacent to the northeastern edge of Building 410. Building 588 housed treated wastewater generated during paint stripping at Building 410. Two oil/water separators are associated with a wash rack area along the southern edge of Building 410. The COPCs at IR Site 9 are chlorinated VOCs and benzene.

IR Site 13 is the site of a former oil refinery (circa 1886-1900). Petroleum-related compounds have been detected at the site (Tetra Tech, 1999b).

IR Site 19 contains Yard D-13, a former permitted RCRA hazardous waste storage unit that has not been used for hazardous waste storage since 1996. The site is currently used for the storage of emergency response equipment.

IR Site 22, a former retail petroleum station, was designated as an IR site based on concerns about TPH and benzene in groundwater.

IR Site 23 was originally designated as an IR site due to concerns about chlorinated solvents at Building 530; however, current concerns revolve around petroleum-related activities at the adjacent degassing area west of Building 530. An ongoing TPH investigation program is addressing the nature and extent of the contaminants at IR Site 23.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 9 Group included sampling and analysis of 17 groundwater monitoring wells (annual sampling of 12 FWBZ wells and semi-annual sampling of 5 SWBZ wells). All groundwater monitoring points in the Summer 2006 through Spring 2007 program are listed in Table 4.1 1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone, and geologic formation for each well. Non-program wells (i.e., wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 4.1-1.

4.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 32 FWBZ wells and 5 SWBZ groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling events at IR Site 9 Group. The results are presented along with previously collected water-level data in Table 4.1-2. Groundwater flow direction and gradient are discussed in Section 4.1.4.1; trends in groundwater elevation data are discussed in Section 4.1.4.4.

4.1.2 Analytical Parameters

Groundwater samples collected from monitoring wells at IR Site 9 Group during the Fall 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- TPH as diesel, motor oil, and jet fuel by EPA Method 8015B

- TPH as gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

Table 4.1-1 lists all IR Site 9 Group groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements. The Navy added an analysis for 1,4-dioxane (EPA Method 8270 SIM) at three wells (MWD13-4, MW410-2, and MW410-3) selected on the basis of historical detections of PCE and cis-1,2-DCE. These wells were to be sampled during the Spring 2007 sampling program, but the additional analyses were inadvertently missed by the field crew during the Spring 2007 event. Dioxane analyses will be performed instead during the upcoming Fall 2007 sampling at IR Site 9 Group.

4.1.3 Analytical Results Summary

The analytical results for the current sampling year are summarized in the following sections, and listed along with previously obtained analytical data in the following tables:

- Table 4.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group, Summer 2002 through Spring 2007."
- Table 4.1-4, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2A - IR Site 9 Group, Summer 2002 through Spring 2007."
- Table 4.1-5, "Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group, Summer 2002 through Spring 2007."
- Table 4.1-6, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group, Summer 2002 through Spring 2007."

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding

AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

4.1.4 Discussion of Results

Concentrations of various aromatic and chlorinated hydrocarbons have been consistently detected in groundwater samples collected from certain groundwater monitoring wells screened in the FWBZ at the IR Site 9 Group. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 to Spring 2007 sampling year: **PCE, vinyl chloride, and 1,1-DCA** (Table 4.1-7). The distribution of aromatic and chlorinated hydrocarbons in FWBZ groundwater monitoring wells at the IR Site 9 Group are discussed more fully in Section 4.1.4.2.

Only trace VOC concentrations (none greater than MCLs) were detected in groundwater collected from IR Site 9 Group monitoring wells screened in the SWBZ during current sampling year events.

Arsenic concentrations above the MCL, but below background value, were detected in one FWBZ well during the Summer 2006 to Spring 2007 sampling year (Table 4.1-7). The distribution of dissolved metals in groundwater monitoring wells at the IR Site 9 Group is discussed more fully in Section 4.1.4.2.

4.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 4.1-2. Groundwater flow direction in the First Water-Bearing Zone at IR Site 9 Group is highly variable as exhibited by the greatly curving contours, but the overall groundwater flow direction is generally to the west, at an average gradient of approximately 0.0015 feet per foot.

Groundwater flow direction in the Second Water-Bearing Zone at IR Site 9 Group is also somewhat variable across the site, but is generally towards the west at a gradient of approximately 0.0015 feet per foot. Water levels in the SWBZ wells at IR Site 9 Group are generally 0.3 to 2 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient.

4.1.4.2 Groundwater Contaminant Distribution

Aromatic and chlorinated hydrocarbons and TPH are present in groundwater at the IR Site 9 Group. The analytical results for benzene and selected chlorinated hydrocarbons are shown on Figure 4.1-3 and Figure 4.1-4, respectively. The highest concentrations of volatile organic constituents are detected in two areas: (1) near the northwestern corner of the site at wells MWD13-4 (where six chlorinated VOCs have been found, and PCE and 1,1-DCA have characteristically exceeded MCLs) and (2) near the southwestern corner of the site at well MW410-2, where vinyl chloride has exceeded MCLs (Table 4.1-3).

Concentrations of arsenic are present in groundwater at the IR Site 9 Group at concentrations exceeding MCLs. In the current sampling year, arsenic concentrations above the MCL occurred at two FWBZ wells: M07C-06 and M13-07; these values were below the background value for arsenic in groundwater.

4.1.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year are summarized in Table 4.1-7, which lists analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 4.1-7 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte.

For most analytes (VOCs and dissolved metals) sampled in IR Site 9 Group wells, analytical results for the current sampling year were of a similar magnitude to those found in previous sampling years. With respect to MCL exceedances, the following changes were observed:

- Benzene and cis-1,2-DCE exceeded MCLs in two wells historically, but were significantly below the MCL in all wells for the current sampling year. Well MW547-3, which showed the highest benzene concentrations historically, is not currently sampled under the Basewide Groundwater Monitoring Program. This well had shown a significant decrease in benzene concentration (to below MCL) prior to its removal from the program.

4.1.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2007 Annual Report:

- Figure 4.1-5a, "Trends in Groundwater Elevations at Operable Unit 2A - IR Site 9 Group: East-West-Oriented FWBZ Wells, Summer 2002 through Spring 2007."
- Figure 4.1-5b, "Trends in Groundwater Elevations at Operable Unit 2A - IR Site 9 Group: East-West-Oriented SWBZ Wells, Summer 2002 through Spring 2007."

The following observations can be made from viewing the hydrographs:

- Groundwater elevations for both FWBZ and SWBZ wells at the IR Site 9 Group show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall.
- Hydrographs for IR Site 9 Group wells have shown a slight overall increase in groundwater elevations over time, since 2002. However, this trend did not continue for the Spring 2007 event, most likely a reflection of the dry 2006–2007 winter.

4.1.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at the IR Site 9 Group since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 4.1-6 and 4.1 7. Although the groundwater concentrations of benzene, TPH as gasoline, and chlorinated hydrocarbons (1,1-DCA, 1,2-dichloroethane [1,2-DCA], cis-1,2-DCE, PCE, and vinyl chloride) show some fluctuation through time, the overall trends of the time-series plots indicate a general decrease in concentrations over time for these analytes, particularly for benzene. In addition, plume boundaries appear to be stable: wells defining the plume boundaries consistently show low to non-detect concentrations of organic constituents, and the same constituents tend to show up in the same set of wells from one sampling event to another.

An exception to this pattern had been noted previously, when sharp increases in TPH characterized as diesel were noted for the Summer 2004 to Spring 2005 reporting year (see

Figure 4.1-7). In the current year, however, the TPH results declined to levels characteristic of the prior period of relatively low detections or non-detect values. PCE concentrations continue to fluctuate slightly above the MCL at well MWD13-4.

4.1.5 Conclusions and Recommendations

Concentrations of three chlorinated hydrocarbons (PCE, vinyl chloride, and 1,1-DCA) and one metal (arsenic, below background value) were reported at levels greater than their respective MCLs from IR Site 9 Group wells for the current sampling year, and TPH concentrations continued to decrease to concentrations lower than in the previous year. Areas of chlorinated hydrocarbon occurrence above MCLs exist in the northwestern and southwestern parts of the site. The plumes appear to be stable, and the organic concentrations appear to be declining.

Based on review of the natural attenuation database for IR Site 9, the Navy recommends eliminating analysis for natural attenuation parameters. Also, the Navy intended to begin semiannual sampling for 1,4-dioxane analysis of groundwater (by EPA Method 8270 SIM) at three IR Site 9 wells (MWD13-4, MW410-2, and MW410-3) during the Spring 2007 sampling event. However, this change to the sampling program was inadvertently overlooked during the Spring 2007 event, and will be initiated instead during the Fall 2007 sampling event. Semiannual analysis for 1,4-dioxane is intended to coincide with the current semiannual schedule for VOCs at the target wells, which were selected based on historical detections of PCE and cis-1,2-DCE from previous sampling events.

Based on the evaluation of data collected in 2006-2007, no other changes in groundwater sampling frequency or analytical parameters are recommended at IR Site 9 Group.

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ALAMEDA POINT
SSIC NO. 5090.3.A.

TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 4.1-1
Groundwater Monitoring Summary, Operable Unit 2A - IR Site 9 Group, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Groundwater Monitoring Program Wells													
First	M07C-08	Fill-Upper Merritt	3.5 - 13.5	S	S	S		A[2]	A	A	A	A	A
	M13-06	Fill	2 - 9.75	S	S	A		A[2]	A	A	A	A	A
	M13-07	Fill-Upper Merritt	2.5 - 12.5	S	S	A		A[2]	A	A	A	A	A
	M13-08	Upper Merritt	22 - 32	S	S	A		A[2]	A	A	A	A	A
	M13-09	Fill-Upper Merritt	2.5 - 12.5	S	S	A		A[2]	A	A	A	A	A
	MW410-1	Fill-BSU	5 - 15	S	S	A		A[2]	A	A	A	A	A
	MW410-2	Fill-BSU	5 - 15	S	S	S	S[1]	A[2]	A	A	A	A	A
	MW410-3	Fill-BSU	5 - 15	S	S	S	S[1]	A[2]	A	A	A	A	A
	MW410-4	Fill-BSU	5 - 15	S	S	A		A[2]	A	A	A	A	A
	MWD13-3	Fill-BSU	5 - 15	S	S	S		A[2]	A	A	A	A	A
	MWD13-4	Fill-BSU	5 - 15	S	S	S	S[1]	A[2]	A	A	A	A	A
	MWOR-4	Fill-BSU	5 - 15	S	S	S		A[2]	A	A	A	A	A
Second	D07C-01	Merritt	49 - 59	A	A	A		A[2]	A	A	A	A	A
	D09-01	Merritt	50 - 60	A	A	A		A[2]	A	A	A	A	A
	D10B-02	Merritt	50 - 60	A	A	A		A[2]	A	A	A	A	A
	D13-01	Merritt	50 - 60	A	A	A		A[2]	A	A	A	A	A
	D19-01	Merritt	50 - 60	A	A	A		A[2]	A	A	A	A	A

Table 4.1-1
Groundwater Monitoring Summary, Operable Unit 2A - IR Site 9 Group, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Non-Program Wells, Water Level Only													
First	372-MW2	Fill	2.6 - 12.6	-	-	-	-	-	-	-	-	-	-
	530MJ-MW1	Fill-BSU	3 - 11.5	-	-	-	-	-	-	-	-	-	-
	530MJ-MW2	Fill-BSU	2.5 - 11.1	-	-	-	-	-	-	-	-	-	-
	M07C-06	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-
	M07C-07	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-
	M07C-09	Fill-Upper Merritt	4 - 14	-	-	-	-	-	-	-	-	-	-
	M09-05	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-
	M09-06	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-
	M10B-01	Fill-BSU	3 - 11	-	-	-	-	-	-	-	-	-	-
	M13-P	Unknown	10 - 35	-	-	-	-	-	-	-	-	-	-
	MW-001	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-
	MW530-1	Upper Merritt	5 - 15	-	-	-	-	-	-	-	-	-	-
	MW530-2	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	MW530-3	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	MW547-3	Fill-BSU-Upper Merritt	5 - 15	-	-	-	-	-	-	-	-	-	-
	MW547-4	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	MW547-5	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	M-IMF-01	Upper Merritt	4 - 13.5	-	-	-	-	-	-	-	-	-	-
	MWOR-1	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	MWOR-2	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	MWOR-3	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
	MWOR-5	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-
Second	D10B-01	Merritt	50 - 60	-	-	-	-	-	-	-	-	-	-
	M19-05	Merritt	20 - 30	-	-	-	-	-	-	-	-	-	-

Table 4.1-1
Groundwater Monitoring Summary, Operable Unit 2A - IR Site 9 Group, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

\- Well not in analytical program.

[1] Inadvertently missed during Spring 2007 sampling round, sampled during Fall 2007

[2] Priority Pollutant metals only

Fill - Artificial Fill

BSU - Bay Sediment Unit

Merritt - Merritt Sand

FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method

RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	372-MW2 ‡	12.2	11.89	03/07/07	3.80	8.09
		12.2	11.89	12/14/06	3.01	8.88
		12.2	11.89	09/26/06	4.20	7.69
		12.2	11.89	07/11/06	3.72	8.17
		12.2	11.89	04/11/06	2.49	9.40
		12.2	11.89	08/23/05	3.66	8.23
		12.2	11.89	03/02/05	2.56	9.33
		12.2	11.89	11/09/04	3.88	8.01
		12.2	11.89	06/15/04	4.18	7.71
		12.2	11.89	03/01/04	2.73	9.16
		12.2	11.89	12/02/03	3.06	8.83
		12.2	11.89	09/15/03	4.32	7.57
First	530MJ-MW1	11.6	11.08	03/07/07	3.08	8.00
		11.6	11.08	12/14/06	3.21	7.87
		11.6	11.08	09/26/06	3.90	7.18
		11.6	11.08	07/12/06	3.51	7.57
		11.6	11.08	04/11/06	2.30	8.78
		11.6	11.08	08/23/05	3.91	7.17
		11.6	11.08	03/02/05	2.99	8.09
		11.6	11.08	11/09/04	4.99	6.09
		11.6	11.08	06/15/04	5.06	6.02
		11.6	11.08	03/01/04	7.57	3.51
		11.6	11.08	12/02/03	6.93	4.15
		11.6	11.08	09/15/03	6.32	4.76
First	530MJ-MW2	11.4	11.12	03/07/07	3.91	7.21
		11.4	11.12	12/14/06	3.28	7.84
		11.4	11.12	09/26/06	4.00	7.12
		11.4	11.12	07/11/06	3.55	7.57
		11.4	11.12	04/11/06	2.55	8.57
		11.4	11.12	08/23/05	4.03	7.09
		11.4	11.12	03/02/05	2.98	8.14
		11.4	11.12	11/09/04	4.82	6.30
		11.4	11.12	06/15/04	5.04	6.08
		11.4	11.12	03/01/04	4.89	6.23
		11.4	11.12	12/02/03	5.61	5.51
		11.4	11.12	09/15/03	4.80	6.32
First	M07C-06	13.1	12.66 *	03/07/07	3.11	9.55
		13.1	12.66 *	12/14/06	NM	NC
		13.1	12.66 *	09/26/06	5.45	7.21
		13.1	12.66 *	07/11/06	4.78	7.88
		13.1	12.66 *	04/11/06	2.30	10.36
		13.1	12.66 *	08/23/05	3.90	8.76
		13.1	12.66 *	03/02/05	1.54	11.12
		13.1	12.66 *	11/09/04	4.60	8.06
		13.1	12.66 *	06/15/04	4.42	8.24
		13.1	12.66 *	03/01/04	3.60	9.06
		13.1	12.66 *	12/02/03	5.01	7.65

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07C-06	13.1	12.66 *	09/15/03	4.77	7.89
		13.1	12.66 *	06/23/03	4.35	8.31
		13.1	12.66 *	04/07/03	3.46	9.20
		13.1	12.66 *	12/12/02	4.82	7.84
		13.1	12.66 *	09/03/02	4.81	7.85
		13.1	12.66 *	06/21/02	4.12	8.54
First	M07C-07 ‡	12.4	12.11 **	03/07/07	2.85	9.26
		12.4	12.11 **	12/14/06	NM	NC
		12.4	12.11 **	09/26/06	4.58	7.53
		12.4	12.11 **	07/11/06	Inaccessible	Inaccessible
		12.4	12.11 **	04/11/06	2.45	9.66
		12.4	12.11 **	08/23/05	3.84	8.27
		12.4	12.11 **	03/02/05	2.23	9.88
		12.4	12.11 **	11/09/04	3.66	8.45
		12.4	12.11 **	06/15/04	3.69	8.42
		12.4	12.11 **	03/01/04	2.08	10.03
		12.4	12.11 **	12/02/03	3.97	8.14
		12.4	12.11 **	09/15/03	4.19	7.92
		12.4	12.11 **	06/23/03	3.20	8.91
		12.4	12.11 **	04/07/03	2.95	9.16
First	M07C-08	12.7	12.39 *	03/07/07	2.55	9.84
		12.7	12.39 *	12/14/06	3.50	8.89
		12.7	12.39 *	09/26/06	5.24	7.15
		12.7	12.39 *	07/11/06	4.55	7.84
		12.7	12.39 *	04/11/06	1.35	11.04
		12.7	12.39 *	08/23/05	4.18	8.21
		12.7	12.39 *	03/02/05	0.96	11.43
		12.7	12.39 *	11/09/04	4.00	8.39
		12.7	12.39 *	06/15/04	3.98	8.41
		12.7	12.39 *	03/01/04	2.09	10.30
		12.7	12.39 *	12/02/03	4.23	8.16
		12.7	12.39 *	09/15/03	4.44	7.95
		12.7	12.39 *	06/23/03	3.70	8.69
		12.7	12.39 *	04/07/03	2.71	9.68
		12.7	12.39 *	12/12/02	4.25	8.14
		12.7	12.39 *	07/24/02	4.22	8.17
First	M07C-09	12.5	12.09 *	03/07/07	4.06	8.03
		12.5	12.09 *	12/14/06	NM	NC
		12.5	12.09 *	09/26/06	5.21	6.88
		12.5	12.09 *	07/11/06	4.90	7.19
		12.5	12.09 *	04/11/06	3.23	8.86
		12.5	12.09 *	08/23/05	2.23	9.86
		12.5	12.09 *	03/02/05	2.71	9.38
		12.5	12.09 *	11/09/04	4.43	7.66
		12.5	12.09 *	06/15/04	3.26	8.83
		12.5	12.09 *	03/01/04	2.62	9.47
		12.5	12.09 *	12/02/03	4.55	7.54

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07C-09	12.5	12.09 *	09/15/03	4.51	7.58
		12.5	12.09 *	06/23/03	3.80	8.29
		12.5	12.09 *	04/07/03	4.21	7.88
		12.5	12.09 *	12/12/02	4.45	7.64
		12.5	12.09 *	09/03/02	4.22	7.87
		12.5	12.09 *	06/19/02	4.60	7.49
First	M09-05 ‡	13.4	13.11 **	03/07/07	5.23	7.88
		13.4	13.11 **	12/14/06	5.86	7.25
		13.4	13.11 **	09/26/06	5.91	7.20
		13.4	13.11 **	07/11/06	4.87	8.24
		13.4	13.11 **	04/11/06	4.65	8.46
		13.4	13.11 **	08/23/05	6.20	6.91
		13.4	13.11 **	03/02/05	5.45	7.66
		13.4	13.11 **	11/09/04	7.09	6.02
		13.4	13.11 **	06/15/04	7.01	6.10
		13.4	13.11 **	03/01/04	6.54	6.57
		13.4	13.11 **	12/02/03	7.64	5.47
		13.4	13.11 **	09/15/03	7.29	5.82
First	M09-06 ‡	13.8	13.59 **	03/07/07	5.72	7.87
		13.8	13.59 **	12/14/06	6.33	7.26
		13.8	13.59 **	09/26/06	6.41	7.18
		13.8	13.59 **	07/11/06	5.02	8.57
		13.8	13.59 **	04/11/06	5.10	8.49
		13.8	13.59 **	08/23/05	6.53	7.06
		13.8	13.59 **	03/02/05	5.94	7.65
		13.8	13.59 **	11/09/04	7.56	6.03
		13.8	13.59 **	06/15/04	7.44	6.15
		13.8	13.59 **	03/01/04	6.89	6.70
		13.8	13.59 **	12/02/03	7.98	5.61
		13.8	13.59 **	09/15/03	7.68	5.91
First	M10B-01	13.0	12.66 *	03/07/07	8.40	4.26
		13.0	12.66 *	12/14/06	6.03	6.63
		13.0	12.66 *	09/26/06	6.29	6.37
		13.0	12.66 *	07/11/06	5.42	7.24
		13.0	12.66 *	04/11/06	4.10	8.56
		13.0	12.66 *	08/22/05	6.14	6.52
		13.0	12.66 *	03/02/05	4.82	7.84
		13.0	12.66 *	11/09/04	6.86	5.80
		13.0	12.66 *	06/15/04	6.81	5.85
		13.0	12.66 *	03/01/04	5.92	6.74
		13.0	12.66 *	12/02/03	7.28	5.38
		13.0	12.66 *	09/15/03	7.30	5.36
		13.0	12.66 *	06/23/03	6.75	5.91
		13.0	12.66 *	04/07/03	6.36	6.30
		13.0	12.66 *	12/12/02	6.88	5.78
		13.0	12.66 *	09/03/02	6.60	6.06
		13.0	12.66 *	06/18/02	6.26	6.40

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M13-06	12.4	12.19 *	09/26/06	NM	NC
		12.4	12.19 *	07/11/06	NM	NC
		12.4	12.19 *	04/11/06	NM	NC
		12.4	12.19 *	08/23/05	5.30	6.89
		12.4	12.19 *	03/02/05	1.56	10.63
		12.4	12.19 *	11/09/04	5.39	6.80
		12.4	12.19 *	06/15/04	NM	NC
		12.4	12.19 *	03/01/04	2.39	9.80
		12.4	12.19 *	12/03/03	5.90	6.29
		12.4	12.19 *	09/15/03	5.95	6.24
		12.4	12.19 *	06/23/03	5.25	6.94
		12.4	12.19 *	04/07/03	4.63	7.56
		12.4	12.19 *	12/12/02	5.72	6.47
		12.4	12.19 *	06/18/02	5.29	6.90
First	M13-07	12.9	12.59 *	03/07/07	3.68	8.91
		12.9	12.59 *	12/14/06	4.75	7.84
		12.9	12.59 *	09/26/06	5.44	7.15
		12.9	12.59 *	07/11/06	4.82	7.77
		12.9	12.59 *	04/11/06	2.65	9.94
		12.9	12.59 *	08/23/05	5.07	7.52
		12.9	12.59 *	03/02/05	3.40	9.19
		12.9	12.59 *	11/09/04	5.40	7.19
		12.9	12.59 *	06/15/04	5.19	7.40
		12.9	12.59 *	03/01/04	2.81	9.78
		12.9	12.59 *	12/02/03	5.54	7.05
		12.9	12.59 *	09/15/03	5.78	6.81
		12.9	12.59 *	06/23/03	4.90	7.69
		12.9	12.59 *	04/07/03	4.45	8.14
		12.9	12.59 *	12/12/02	5.62	6.97
		12.9	12.59 *	06/18/02	4.97	7.62
First	M13-08	11.6	11.31 *	03/07/07	2.14	9.17
		11.6	11.31 *	12/14/06	2.41	8.90
		11.6	11.31 *	09/26/06	3.17	8.14
		11.6	11.31 *	07/11/06	2.24	9.07
		11.6	11.31 *	04/11/06	1.00	10.31
		11.6	11.31 *	08/23/05	2.23	9.08
		11.6	11.31 *	03/02/05	0.83	10.48
		11.6	11.31 *	11/09/04	3.01	8.30
		11.6	11.31 *	06/15/04	3.04	8.27
		11.6	11.31 *	03/01/04	1.05	10.26
		11.6	11.31 *	12/02/03	3.21	8.10
		11.6	11.31 *	09/15/03	3.32	7.99
		11.6	11.31 *	06/23/03	2.60	8.71
		11.6	11.31 *	04/07/03	1.65	9.66
		11.6	11.31 *	12/12/02	3.40	7.91
		11.6	11.31 *	06/20/02	2.90	8.41
First	M13-09	11.9	11.54 *	03/07/07	2.42	9.12

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M13-09	11.9	11.54 *	12/14/06	2.70	8.84
		11.9	11.54 *	09/26/06	3.82	7.72
		11.9	11.54 *	07/11/06	3.31	8.23
		11.9	11.54 *	04/11/06	1.90	9.64
		11.9	11.54 *	08/23/05	3.36	8.18
		11.9	11.54 *	03/02/05	1.69	9.85
		11.9	11.54 *	11/09/04	3.36	8.18
		11.9	11.54 *	06/15/04	3.31	8.23
		11.9	11.54 *	06/19/02	3.03	8.51
		11.9	11.54 *	03/01/04	NA	NC
		11.9	11.54 *	12/02/03	3.73	7.81
		11.9	11.54 *	09/16/03	3.94	7.60
		11.9	11.54 *	06/23/03	3.05	8.49
		11.9	11.54 *	04/08/03	2.44	9.10
		11.9	11.54 *	12/17/02	2.05 §	9.49
First	M13-P	12.5	12.36	03/07/07	3.96	8.40
		12.5	12.36	12/14/06	4.40	7.96
		12.5	12.36	09/26/06	5.26	7.10
		12.5	12.36	07/11/06	4.69	7.67
		12.5	12.36	04/11/06	2.76	9.60
		12.5	12.36	08/23/05	4.70	7.66
		12.5	12.36	03/02/05	2.90	9.46
		12.5	12.36	11/09/04	4.99	7.37
		12.5	12.36	06/15/04	4.83	7.53
		12.5	12.36	03/01/04	2.50	9.86
		12.5	12.36	12/02/03	5.36	7.00
		12.5	12.36	09/15/03	4.94	7.42
First	MW-001	12.6	13.82 *	03/09/07	4.21	9.61
		12.6	13.82 *	12/14/06	3.82	10.00
		12.6	13.82 *	09/27/06	6.21	7.61
		12.6	13.82 *	07/11/06	5.47	8.35
		12.6	13.82 *	04/11/06	1.80	12.02
		12.6	13.82 *	08/23/05	5.81	8.01
		12.6	13.82 *	03/02/05	1.91	11.91
		12.6	13.82 *	11/09/04	5.11	8.71
		12.6	13.82 *	06/16/04	4.70	9.12
		12.6	13.82 *	03/01/04	2.80	11.02
		12.6	13.82 *	12/02/03	6.48	7.34
		12.6	13.82 *	09/15/03	6.48	7.34
		12.6	13.82 *	06/23/03	5.50	8.32
		12.6	13.82 *	04/07/03	4.62	9.20
		12.6	13.82 *	12/17/02	3.26 §	10.56
		12.6	13.82 *	06/18/02	6.00	7.82
First	MW410-1	13.0	12.41 *	03/07/07	4.44	7.97
		13.0	12.41 *	09/26/06	5.38	7.03
		13.0	12.41 *	09/26/06	5.38	7.03
		13.0	12.41 *	07/11/06	4.81	7.60

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW410-1	13.0	12.41 *	04/11/06	3.61	8.80
		13.0	12.41 *	08/23/05	5.24	7.17
		13.0	12.41 *	03/02/05	3.83	8.58
		13.0	12.41 *	11/09/04	5.82	6.59
		13.0	12.41 *	06/15/04	5.58	6.83
		13.0	12.41 *	03/01/04	4.49	7.92
		13.0	12.41 *	12/02/03	6.09	6.32
		13.0	12.41 *	09/15/03	5.93	6.48
		13.0	12.41 *	06/23/03	5.35	7.06
		13.0	12.41 *	04/07/03	5.05	7.36
		13.0	12.41 *	12/12/02	6.07	6.34
		13.0	12.41 *	09/03/02	5.75	6.66
		13.0	12.41 *	06/18/02	5.28	7.13
First	MW410-2	13.9	13.15 *	03/07/07	5.36	7.79
		13.9	13.15 *	12/14/06	6.15	7.00
		13.9	13.15 *	09/26/06	6.28	6.87
		13.9	13.15 *	07/11/06	5.81	7.34
		13.9	13.15 *	04/11/06	5.02	8.13
		13.9	13.15 *	08/23/05	6.19	6.96
		13.9	13.15 *	03/02/05	5.77	7.38
		13.9	13.15 *	11/09/04	7.14	6.01
		13.9	13.15 *	06/15/04	6.98	6.17
		13.9	13.15 *	03/01/04	6.32	6.83
		13.9	13.15 *	12/02/03	7.48	5.67
		13.9	13.15 *	09/15/03	7.21	5.94
		13.9	13.15 *	06/23/03	7.80	5.35
		13.9	13.15 *	04/07/03	6.45	6.70
		13.9	13.15 *	12/12/02	7.12	6.03
		13.9	13.15 *	09/03/02	6.83	6.32
		13.9	13.15 *	06/18/02	6.43	6.72
First	MW410-3	12.3	11.77 *	03/07/07	4.14	7.63
		12.3	11.77 *	12/14/06	4.64	7.13
		12.3	11.77 *	09/26/06	4.81	6.96
		12.3	11.77 *	07/11/06	4.30	7.47
		12.3	11.77 *	04/11/06	3.57	8.20
		12.3	11.77 *	08/23/05	4.87	6.90
		12.3	11.77 *	03/02/05	4.29	7.48
		12.3	11.77 *	11/09/04	5.85	5.92
		12.3	11.77 *	06/15/04	5.70	6.07
		12.3	11.77 *	03/01/04	5.05	6.72
		12.3	11.77 *	12/02/03	6.11	5.66
		12.3	11.77 *	09/15/03	5.90	5.87
		12.3	11.77 *	06/24/03	5.27	6.50
		12.3	11.77 *	04/07/03	5.11	6.66
		12.3	11.77 *	12/12/02	5.70	6.07
		12.3	11.77 *	09/03/02	5.33	6.44
		12.3	11.77 *	06/18/02	5.00	6.77

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW410-4	13.0	12.31 *	03/07/07	4.61	7.70
		13.0	12.31 *	12/14/06	5.27	7.04
		13.0	12.31 *	09/26/06	5.25	7.06
		13.0	12.31 *	07/11/06	4.72	7.59
		13.0	12.31 *	04/11/06	4.00	8.31
		13.0	12.31 *	08/23/05	5.36	6.95
		13.0	12.31 *	03/02/05	4.82	7.49
		13.0	12.31 *	11/09/04	9.47	2.84
		13.0	12.31 *	06/15/04	6.41	5.90
		13.0	12.31 *	03/01/04	6.11	6.20
		13.0	12.31 *	12/02/03	7.14	5.17
		13.0	12.31 *	09/15/03	6.76	5.55
		13.0	12.31 *	06/24/03	6.06	6.25
		13.0	12.31 *	04/07/03	6.00	6.31
		13.0	12.31 *	12/12/02	6.22	6.09
		13.0	12.31 *	09/03/02	5.76	6.55
		13.0	12.31 *	06/18/02	5.37	6.94
First	MW530-1	NA	NA	03/07/07	4.69	NC
		NA	NA	12/14/06	5.27	NC
		NA	NA	09/26/06	5.54	NC
		NA	NA	07/11/06	5.05	NC
		NA	NA	04/11/06	4.21	NC
First	MW530-2	12.8	12.22 *	03/07/07	4.37	7.85
		12.8	12.22 *	12/14/06	4.85	7.37
		12.8	12.22 *	09/26/06	5.10	7.12
		12.8	12.22 *	07/11/06	4.52	7.70
		12.8	12.22 *	04/11/06	3.66	8.56
		12.8	12.22 *	08/23/05	5.04	7.18
		12.8	12.22 *	03/02/05	4.52	7.70
		12.8	12.22 *	11/09/04	6.62	5.60
		12.8	12.22 *	06/15/04	6.87	5.35
		12.8	12.22 *	03/01/04	8.13	4.09
		12.8	12.22 *	12/02/03	8.32	3.90
		12.8	12.22 *	09/15/03	7.28	4.94
		12.8	12.22 *	06/23/03	6.75	5.47
		12.8	12.22 *	04/07/03	6.71	5.51
		12.8	12.22 *	12/12/02	6.28	5.94
		12.8	12.22 *	06/18/02	5.09	7.13
First	MW530-3	11.1	11.80 *	03/07/07	2.87	8.93
		11.1	11.80 *	12/14/06	NM	NC
		11.1	11.80 *	09/26/06	3.66	8.14
		11.1	11.80 *	07/11/06	3.25	8.55
		11.1	11.80 *	04/11/06	NM	NC
		11.1	11.80 *	08/23/05	3.76	8.04
		11.1	11.80 *	03/02/05	2.49	9.31
		11.1	11.80 *	11/09/04	4.47	7.33
		11.1	11.80 *	06/15/04	4.92	6.88

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW530-3	11.1	11.80 *	03/01/04	4.26	7.54
		11.1	11.80 *	12/02/03	4.89	6.91
		11.1	11.80 *	09/15/03	5.33	6.47
		11.1	11.80 *	06/23/03	4.69	7.11
		11.1	11.80 *	04/07/03	4.23	7.57
		11.1	11.80 *	12/12/02	4.21	7.59
		11.1	11.80 *	06/18/02	3.82	7.98
First	MW547-3	14.1	13.70 *	03/09/07	3.22	10.48
		14.1	13.70 *	12/14/06	5.75	7.95
		14.1	13.70 *	09/26/06	8.08	5.62
		14.1	13.70 *	07/11/06	7.21	6.49
		14.1	13.70 *	04/11/06	4.03	9.67
		14.1	13.70 *	08/23/05	5.55	8.15
		14.1	13.70 *	03/02/05	2.55	11.15
		14.1	13.70 *	11/09/04	5.69	8.01
		14.1	13.70 *	06/15/04	4.23	9.47
		14.1	13.70 *	03/01/04	2.95	10.75
		14.1	13.70 *	12/02/03	5.85	7.85
		14.1	13.70 *	09/15/03	5.56	8.14
		14.1	13.70 *	06/23/03	4.65	9.05
		14.1	13.70 *	04/07/03	4.28	9.42
		14.1	13.70 *	12/12/02	5.73	7.97
		14.1	13.70 *	09/03/02	6.67	7.03
		14.1	13.70 *	06/20/02	4.90	8.80
First	MW547-4	NA	NA	03/07/07	3.24	NA
		NA	NA	12/14/06	4.94	NA
		NA	NA	09/26/06	5.81	NA
		NA	NA	07/11/06	5.35	NC
		NA	NA	04/11/06	2.45	NC
First	MW547-5	NA	NA	03/07/07	3.86	NC
		NA	NA	12/14/06	4.97	NC
		NA	NA	09/26/06	6.91	NC
		NA	NA	07/11/06	4.88	NC
		NA	NA	04/11/06	1.64	NC
First	MWD13-1 ‡	12.52	12.52 **	03/07/07	3.76	8.76
		12.52	12.52 **	12/14/06	4.05	8.47
		12.52	12.52 **	09/26/06	7.98	4.54
		12.52	12.52 **	07/11/06	4.42	8.10
		12.52	12.52 **	04/10/06	2.82	9.70
		12.52	12.52 **	10/12/05	4.58	7.94
		12.52	12.52 **	03/02/05	3.12	9.40
		12.52	12.52 **	11/08/04	NM	NC
		12.52	12.52 **	06/15/04	NF	NC
		12.52	12.52 **	03/01/04	NF	NC
		12.52	12.52 **	12/02/03	4.77	7.75
		12.52	12.52 **	09/15/03	5.03	7.49
		12.52	12.52 **	06/23/03	4.45	8.07

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWD13-1 ‡	12.52	12.52 **	04/07/03	4.26	8.26
First	MWD13-2 ‡	12.4	12.06 **	03/07/07	2.99	9.07
		12.4	12.06 **	12/14/06	4.90	7.16
		12.4	12.06 **	07/11/06	3.82	8.24
		12.4	12.06 **	04/10/06	2.16	9.90
		12.4	12.06 **	08/23/05	3.75	8.31
		12.4	12.06 **	03/02/05	2.48	9.58
		12.4	12.06 **	11/08/04	4.18	7.88
		12.4	12.06 **	06/15/04	NM	NC
		12.4	12.06 **	03/01/04	3.92	8.14
		12.4	12.06 **	12/02/03	3.50	8.56
		12.4	12.06 **	09/16/03	4.25	7.81
		12.4	12.06 **	06/23/03	3.91	8.15
		12.4	12.06 **	04/07/03	3.65	8.41
First	MWD13-3	12.7	12.50 *	03/07/07	3.70	8.80
		12.7	12.50 *	12/14/06	NM	NC
		12.7	12.50 *	09/26/06	7.98	4.52
		12.7	12.50 *	07/11/06	4.34	8.16
		12.7	12.50 *	04/11/06	2.63	9.87
		12.7	12.50 *	08/23/05	4.70	7.80
		12.7	12.50 *	03/02/05	3.13	9.37
		12.7	12.50 *	11/09/04	4.96	7.54
		12.7	12.50 *	06/15/04	4.82	7.68
		12.7	12.50 *	03/01/04	3.45	9.05
		12.7	12.50 *	12/02/03	4.93	7.57
		12.7	12.50 *	09/15/03	5.30	7.20
		12.7	12.50 *	06/23/03	4.65	7.85
		12.7	12.50 *	04/07/03	4.29	8.21
		12.7	12.50 *	12/12/02	5.44	7.06
		12.7	12.50 *	06/19/02	4.71	7.79
First	MWD13-4	14.0	13.67 *	03/07/07	4.90	8.77
		14.0	13.67 *	12/14/06	5.54	8.13
		14.0	13.67 *	09/26/06	9.18	4.49
		14.0	13.67 *	07/11/06	5.53	8.14
		14.0	13.67 *	04/11/06	3.81	9.86
		14.0	13.67 *	08/23/05	5.89	7.78
		14.0	13.67 *	03/02/05	4.32	9.35
		14.0	13.67 *	11/09/04	6.17	7.50
		14.0	13.67 *	06/15/04	5.99	7.68
		14.0	13.67 *	03/01/04	4.63	9.04
		14.0	13.67 *	12/02/03	6.13	7.54
		14.0	13.67 *	09/15/03	6.48	7.19
		14.0	13.67 *	06/23/03	5.83	7.84
		14.0	13.67 *	04/07/03	5.47	8.20
		14.0	13.67 *	12/12/02	6.64	7.03
		14.0	13.67 *	09/03/02	6.51	7.16
		14.0	13.67 *	06/19/02	5.60	8.07

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWOR-1 ‡	12.5	12.35 **	03/09/07	4.02	8.33
		12.5	12.35 **	12/14/06	5.02	7.33
		12.5	12.35 **	09/27/06	5.71	6.64
		12.5	12.35 **	07/11/06	5.05	7.30
		12.5	12.35 **	04/11/06	2.71	9.64
		12.5	12.35 **	08/23/05	4.54	7.81
		12.5	12.35 **	03/02/05	3.35	9.00
		12.5	12.35 **	11/09/04	5.42	6.93
		12.5	12.35 **	06/15/04	4.96	7.39
		12.5	12.35 **	03/01/04	3.80	8.55
		12.5	12.35 **	12/02/03	5.84	6.51
		12.5	12.35 **	09/15/03	5.86	6.49
		12.5	12.35 **	06/23/03	5.00	7.35
		12.5	12.35 **	04/07/03	4.57	7.78
First	MWOR-2 ‡	12.6	12.12 **	03/07/07	3.94	8.18
		12.6	12.12 **	12/14/06	NM	NC
		12.6	12.12 **	09/26/06	4.96	7.16
		12.6	12.12 **	07/11/06	4.40	7.72
		12.6	12.12 **	04/11/06	2.96	9.16
		12.6	12.12 **	08/23/05	4.82	7.30
		12.6	12.12 **	03/02/05	3.25	8.87
		12.6	12.12 **	11/09/04	5.29	6.83
		12.6	12.12 **	06/15/04	5.08	7.04
		12.6	12.12 **	03/01/04	3.70	8.42
		12.6	12.12 **	12/02/03	5.62	6.50
		12.6	12.12 **	09/15/03	5.45	6.67
		12.6	12.12 **	06/23/03	4.60	7.52
		12.6	12.12 **	04/07/03	NF	NC
First	MWOR-3 ‡	13.4	12.94 **	03/07/07	2.50	10.44
		13.4	12.94 **	12/14/06	4.49	8.45
		13.4	12.94 **	09/26/06	4.46	8.48
		13.4	12.94 **	07/11/06	4.00	8.94
		13.4	12.94 **	04/11/06	0.73	12.21
		13.4	12.94 **	08/23/05	4.38	8.56
		13.4	12.94 **	03/02/05	0.25	12.69
		13.4	12.94 **	11/09/04	4.67	8.27
		13.4	12.94 **	06/15/04	4.34	8.60
		13.4	12.94 **	03/01/04	0.96	11.98
		13.4	12.94 **	12/02/03	5.37	7.57
		13.4	12.94 **	09/15/03	4.94	8.00
		13.4	12.94 **	06/23/03	4.05	8.89
		13.4	12.94 **	04/07/03	3.31	9.63
First	MWOR-4	11.8	11.47 *	03/07/07	1.85	9.62
		11.8	11.47 *	12/14/06	NM	NC
		11.8	11.47 *	09/26/06	3.60	7.87
		11.8	11.47 *	07/11/06	3.20	8.27
		11.8	11.47 *	04/11/06	1.15	10.32

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWOR-4	11.8	11.47 *	08/23/05	2.99	8.48
		11.8	11.47 *	03/02/05	0.74	10.73
		11.8	11.47 *	11/09/04	3.58	7.89
		11.8	11.47 *	06/15/04	3.50	7.97
		11.8	11.47 *	03/01/04	NA	NC
		11.8	11.47 *	12/02/03	3.88	7.59
		11.8	11.47 *	09/15/03	4.13	7.34
		11.8	11.47 *	06/24/03	3.35	8.12
		11.8	11.47 *	04/08/03	2.61	8.86
		11.8	11.47 *	12/12/02	3.89	7.58
		11.8	11.47 *	06/19/02	3.36	8.11
First	MWOR-5 ‡	12.4	11.66 **	03/07/07	2.80	8.86
		12.4	11.66 **	12/14/06	NM	NC
		12.4	11.66 **	09/26/06	4.32	7.34
		12.4	11.66 **	07/11/06	3.80	7.86
		12.4	11.66 **	04/11/06	2.40	9.26
		12.4	11.66 **	08/23/05	4.10	7.56
		12.4	11.66 **	03/02/05	1.60	10.06
		12.4	11.66 **	11/09/04	4.03	7.63
		12.4	11.66 **	06/15/04	4.25	7.41
		12.4	11.66 **	03/01/04	NA	NC
		12.4	11.66 **	12/02/03	NF	NC
		12.4	11.66 **	09/15/03	4.57	7.09
		12.4	11.66 **	06/24/03	4.06	7.60
		12.4	11.66 **	04/08/03	2.22	9.44
Second	D07C-01	13.0	12.75 *	03/07/07	3.95	8.80
		13.0	12.75 *	12/17/06	4.33	8.42
		13.0	12.75 *	07/11/06	3.86	8.89
		13.0	12.75 *	04/11/06	1.67	11.08
		13.0	12.75 *	08/23/05	4.76	7.99
		13.0	12.75 *	03/02/05	2.94	9.81
		13.0	12.75 *	11/09/04	4.79	7.96
		13.0	12.75 *	06/15/04	4.86	7.89
		13.0	12.75 *	03/01/04	3.26	9.49
		13.0	12.75 *	12/02/03	5.10	7.65
		13.0	12.75 *	09/15/03	5.14	7.61
		13.0	12.75 *	06/23/03	4.70	8.05
		13.0	12.75 *	04/07/03	4.40	8.35
		13.0	12.75 *	12/12/02	5.14	7.61
		13.0	12.75 *	07/11/02	4.64	8.11
Second	D07C-08	NA	NA	04/11/06	3.10	NC
Second	D09-01	13.8	13.50 *	03/07/07	6.71	6.79
		13.8	13.50 *	12/14/06	7.03	6.47
		13.8	13.50 *	07/11/06	6.75	6.75
		13.8	13.50 *	04/11/06	6.00	7.50
		13.8	13.50 *	08/23/05	7.13	6.37
		13.8	13.50 *	03/02/05	6.38	7.12

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D09-01	13.8	13.50 *	11/09/04	7.79	5.71
		13.8	13.50 *	06/15/04	7.76	5.74
		13.8	13.50 *	03/01/04	6.76	6.74
		13.8	13.50 *	12/02/03	6.16	7.34
		13.8	13.50 *	09/15/03	8.01	5.49
		13.8	13.50 *	06/23/03	7.80	5.70
		13.8	13.50 *	04/07/03	7.84	5.66
		13.8	13.50 *	12/12/02	8.12	5.38
		13.8	13.50 *	09/03/02	8.20	5.30
		13.8	13.50 *	06/28/02	9.60	3.90
Second	D10B-01 ‡	11.1	10.97	03/07/07	3.36	7.61
		11.1	10.97	12/14/06	NM	NC
		11.1	10.97	07/11/06	3.34	7.63
		11.1	10.97	04/11/06	2.25	8.72
		11.1	10.97	08/23/05	3.84	7.13
		11.1	10.97	03/02/05	2.97	8.00
		11.1	10.97	11/09/04	4.41	6.56
		11.1	10.97	06/15/04	4.43	6.54
		11.1	10.97	03/01/04	3.96	7.01
		11.1	10.97	12/02/03	5.18	5.79
		11.1	10.97	09/15/03	4.95	6.02
Second	D10B-02	12.9	12.38 *	03/07/07	4.47	7.91
		12.9	12.38 *	12/14/06	4.78	7.60
		12.9	12.38 *	07/11/06	4.78	7.60
		12.9	12.38 *	04/11/06	3.45	8.93
		12.9	12.38 *	08/23/05	5.04	7.34
		12.9	12.38 *	03/02/05	3.79	8.59
		12.9	12.38 *	11/09/04	5.32	7.06
		12.9	12.38 *	06/15/04	5.31	7.07
		12.9	12.38 *	03/01/04	4.11	8.27
		12.9	12.38 *	12/02/03	5.66	6.72
		12.9	12.38 *	09/15/03	5.69	6.69
		12.9	12.38 *	06/23/03	5.25	7.13
		12.9	12.38 *	04/07/03	5.16	7.22
		12.9	12.38 *	12/12/02	5.54	6.84
		12.9	12.38 *	06/28/02	5.55	6.83
Second	D13-01	11.8	11.61 *	03/07/07	2.64	8.97
		11.8	11.61 *	12/14/06	3.00	8.61
		11.8	11.61 *	07/11/06	3.35	8.26
		11.8	11.61 *	04/11/06	1.75	9.86
		11.8	11.61 *	08/23/05	3.46	8.15
		11.8	11.61 *	03/02/05	1.76	9.85
		11.8	11.61 *	11/09/04	3.59	8.02
		11.8	11.61 *	06/15/04	3.69	7.92
		11.8	11.61 *	03/01/04	NA	NC
		11.8	11.61 *	12/03/03	4.05	7.56
		11.8	11.61 *	09/15/03	3.99	7.62

Table 4.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2A - IR Site 9 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D13-01	11.8	11.61 *	06/24/03	3.55	8.06
		11.8	11.61 *	04/08/03	3.28	8.33
		11.8	11.61 *	12/12/02	3.95	7.66
		11.8	11.61 *	07/08/02	3.79	7.82
Second	D19-01	12.2	11.85 *	03/07/07	4.95	6.90
		12.2	11.85 *	12/14/06	5.09	6.76
		12.2	11.85 *	07/11/06	5.38	6.47
		12.2	11.85 *	04/11/06	3.93	7.92
		12.2	11.85 *	08/23/05	5.35	6.50
		12.2	11.85 *	03/02/05	4.12	7.73
		12.2	11.85 *	11/09/04	5.26	6.59
		12.2	11.85 *	06/15/04	5.34	6.51
		12.2	11.85 *	03/01/04	4.33	7.52
		12.2	11.85 *	12/02/03	5.71	6.14
		12.2	11.85 *	09/15/03	5.62	6.23
		12.2	11.85 *	06/23/03	5.40	6.45
		12.2	11.85 *	04/07/03	5.37	6.48
		12.2	11.85 *	12/09/02	5.68	6.17
		12.2	11.85 *	07/12/02	5.70	6.15
Second	M19-05 ‡	12.8	12.45 **	03/07/07	4.25	8.20
		12.8	12.45 **	12/14/06	4.65	7.80
		12.8	12.45 **	07/11/06	4.76	7.69
		12.8	12.45 **	04/11/06	3.04	9.41
		12.8	12.45 **	08/23/05	4.40	8.05
		12.8	12.45 **	03/02/05	3.65	8.80
		12.8	12.45 **	11/09/04	4.96	7.49
		12.8	12.45 **	03/01/04	4.14	8.31
		12.8	12.45 **	03/01/04	4.14	8.31
		12.8	12.45 **	12/02/03	5.50	6.95
		12.8	12.45 **	09/15/03	5.39	7.06
		12.8	12.45 **	06/24/03	NM	NC
		12.8	12.45 **	04/07/03	4.47	7.98

Notes:
BTOC = below top of casing
msl = mean sea level
NA = Not available
NC = Groundwater elevation not calculated
NF = Monitoring well not found
NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.
** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750
§ = Measured prior to purging well for sampling
‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	530MJ-MW1	2005 02 (Summer)		24000	15000	< 3000	280	39300	0.10 J	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		190000	74000	5500 J	320	270000	0.10 J	< 0.50	0.10 J	< 0.50	< 0.50	1.1 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		16000	7400	520	< 50.0	23900	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	0.70 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		1800	200 J	160 J	400	2560	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		3300	390	320	179	4190	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	1.1 J	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)		2400	220 J	650	610	3880	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	4.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	530MJ-MW2	2005 02 (Summer)		9900	6700	250 J	170	17000	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		27000	12000	1500	150	40700	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		6300	4000	220 J	85.0	10600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		1900	220 J	< 190	240	2360	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		910	< 280	< 190	407	1320	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)		1200	230 J	< 190	250	1680	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	1.2 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M07C-06	2005 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		750	51.0	580	< 50.0	1380	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		440	79.0	360	< 50.0	879	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		140 J	< 280	< 190	< 50.0	140	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 03 (Fall)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07C-08	2007 01 (Spring)		< 15.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07C-08	2006 03 (Fall)	29.0 J	< 50.0	< 300	< 50.0	29.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	54.0 J	< 50.0 UJ	54.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	94.0 J	< 50.0	94.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50 UJ	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50
	M07C-09	2005 02 (Summer)	< 50.0	< 50.0	< 300	20.0 J	20.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	77.0	< 50.0	160 J	< 50.0	237	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	120	< 50.0	310	< 50.0	430	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	100 J	< 280	140 J	< 50.0	240	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.20 J	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	150	< 50.0	290 J	< 50.0	440	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M10B-01	2005 02 (Summer)	< 50.0	< 50.0 UJ	160 J	< 50.0	160	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	1200	200	980	< 50.0	2380	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	660	53.0	530	< 50.0	1240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	34.0 J	34.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M10B-01	2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 290 UJ	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-06	2007 01 (Spring)	< 39.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	25.0 J	< 50.0	< 300	< 50.0	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	780	75.0	550	< 50.0	1410	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M13-07	2007 01 (Spring)	300	530	< 300	220	1050	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	14.0 J	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	330	720	< 300	540 J	1590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	93.0 J	93.0	< 0.50	0.70	< 0.50	< 0.50	< 0.50	1.6 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	250	670	< 300	320	1240	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	180	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 04 (Winter)	11000	6100	360	280	17700	< 0.50	0.60	< 0.50	< 0.50	0.20 J	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	160	320	< 300	260	740	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	64.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	2300	830	< 190	920	4050	< 0.50	< 1.0	< 1.0	< 1.0	0.49 J	170 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	340	250 J	< 190	410	1000	< 0.50	0.44 J	< 1.0	< 1.0	< 1.0	39.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	450	810	< 300	520	1780	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	190	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	580	1100	< 300	530	2210	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	210	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-08	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.10 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M13-08	2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-09	2007 01 (Spring)	< 64.0	< 50.0	< 300	< 12.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.70	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	73.0	< 50.0	210 J	< 50.0	283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	46.0 J	< 50.0	290 J	< 50.0	336	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	23.0 J	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	980	76.0	480	< 50.0	1540	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	680	71.0	840	< 50.0	1590	< 0.50	< 0.50	1.3	1.6	< 0.50	1.1 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-P	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	0.20 J	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	0.51	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	MW-001	2005 02 (Summer)	1900	850	1200	170	4120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW-001	2004 04 (Winter)	6000	1800	1400	110	9310	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	1.5 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	560	230	440	150	1380	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	2400	< 280	1500	270	4170	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	1600	< 280	470	80.0	2150	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	1.5 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	580	200	450	74.0	1300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	960	540	640	230	2370	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	11.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW410-1	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 11.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	1.1 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	110	< 50.0	140 J	< 50.0	250	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	3.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	330	< 50.0	330	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200 UJ	< 300 UJ	< 200 UJ	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	0.50 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW410-2	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 15.0	< 300	0.090 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	0.30 J	< 0.50	< 0.50	1.3
		2006 03 (Fall)	34.0 J	< 50.0	< 300	< 50.0	34.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4	< 0.50	0.30 J	< 0.50	< 0.50	1.7
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	0.050 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	0.40 J	< 0.50	0.70	0.40 J
		2005 02 (Summer)	20.0 J	< 50.0	< 300	< 50.0	20.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.70	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	< 0.50	0.30 J	< 0.50	< 0.50	1.6
		2005 01 (Spring)	690	270	320	< 50.0	1280	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50	0.90
		2004 04 (Winter)	1500	410	280 J	< 50.0	2190	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.3	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	10.0	< 0.50	0.70	< 0.50	< 0.50	3.7

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-2	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	8.4 J	< 0.50	0.60	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	28.0 J	28.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	3.6 J	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.6	0.23 J	0.59 J	< 0.50	< 1.0	4.1
		2003 04 (Winter)	180 J	< 300	< 200	40.0 J	220	0.92	0.26 J	< 1.0	< 1.0	< 1.0	< 2.0 UJ	9.2	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	19.0	0.55 J	1.9	< 0.50	5.9	17.0
		2003 03 (Fall)	150 J	< 280 UJ	< 190	50.0	200	0.94	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	8.3	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	20.0	0.55 J	2.2	< 0.50	< 1.0	23.0
		2003 02 (Summer)	300	< 280	< 190	60.0	360	0.88	0.24 J	0.29 J	< 1.0	< 1.0	< 2.0	7.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18.0	0.62 J	1.9	< 0.50	< 1.0	22.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	97.0	97.0	0.90	0.20 J	0.80	0.30 J	0.50 J	0.30 J	4.2	1.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	7.8	0.50	2.5	< 0.50	< 0.50	20.0
		2002 04 (Winter)	130	95.0	< 300	110	335	1.4	0.60	4.7	2.3	1.5	< 2.0	8.3	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	7.4	0.90	5.4	< 0.50	< 0.50	12.0
		2002 03 (Fall)	< 50.0	< 50.0	< 300	160	160	1.2	0.40 J	9.6	30.0	12.0	1.5 J	14.0	1.5	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	9.9	0.80	3.8	< 0.50	< 0.50	9.6
		2002 02 (Summer)	< 50.0	< 50.0	< 300	90.0	90.0	0.90	< 0.50	0.50 J	< 0.50	< 0.50	0.50 J	11.0 J	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	8.5 J	0.70	2.5	< 0.50	< 0.50	9.9
	MW410-3	2007 01 (Spring)	14.0 J	< 50.0	110 J	< 13.0	124	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.7	1.4	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	1.1	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.6	1.6	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	120	< 50.0	450	< 50.0	570	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	1.2	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	38.0 J	< 50.0	< 300	< 50.0	38.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.7	1.7	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.5	1.4	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	37.0 J	37.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	3.1	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	350	< 50.0	350	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	7.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	3.7	1.4	< 1.0	0.23 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	2.6	1.2	< 1.0	0.36 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	4.2	1.5	< 1.0	0.28 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	190 J	< 50.0	190	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.0	< 0.50	< 0.50	< 0.50	< 0.50	4.0	1.7 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.0	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.10 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.1	1.6	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	5.5	1.4	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW410-4	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.40	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-4	2005 02 (Summer)	< 50.0	< 50.0 UJ	55.0 J	< 50.0	55.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	58.0	< 50.0	160 J	38.0 J	256	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	1.9 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	0.21 J	< 0.50
		2003 03 (Fall)	< 200 UJ	< 290 UJ	< 200 UJ	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	MW530-2	2005 02 (Summer)	< 50.0	< 50.0	250 J	< 50.0	250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.6	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	310	< 50.0	120 J	< 50.0	430	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.9	0.10 J	0.30 J	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	3.5	< 1.0	0.23 J	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	55.0	< 50.0 UJ	< 300	< 50.0	55.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW530-3	2005 02 (Summer)	340	140	< 300	< 50.0	480	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	150	< 50.0	< 300	< 50.0	150	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	240	150	< 300	21.0 J	411	< 0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW547-3	2005 02 (Summer)	27.0 J	50.0	< 300	270	347	0.30 J	< 0.50	0.70	0.20 J	0.20 J	18.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW547-3	2005 01 (Spring)	1800	2900	180 J	2200	7080	16.0	0.60 J	12.0	1.9	1.0 J	180	0.70 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 04 (Winter)	870	1400	120 J	990	3380	1.8	0.70	7.0	< 0.70	0.50 J	200	0.30 J	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 02 (Summer)	< 50.0	110	< 300	240	350	0.50	< 0.50	0.60	< 0.50	< 0.50	9.4	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	570	1200	< 190	4600	6370	170	1.2	34.0	11.0	3.2	350	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	300	1800	< 190	3100	5200	100	0.89 J	26.0 J	2.6 J	1.1 J	460	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.9 J	< 1.0	< 1.0	2.4 J	< 0.50 UJ	27.0 J	< 0.50
		2003 03 (Fall)	270	2100	< 190	3200	5570	180	< 1.0 UJ	21.0 J	2.5 J	0.93 J	220	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	690	2200	< 190	3100	5990	850	0.91 J	25.0 J	1.8 J	1.0 J	330	< 5.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	180	1300	< 300	5100	6580	1300	1.3 J	34.0	< 3.6	< 3.6	370	< 3.6	< 3.6	2.4 J	< 3.6	< 3.6	2.6 J	1.9 J	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
		2002 04 (Winter)	110	1100	< 300	3400	4610	690	1.0	34.0	1.5	0.70	380	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	180	1000	< 300	4500	5680	1300	0.70 J	26.0	2.0 J	< 3.6	290	< 3.6	< 3.6	0.80 J	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
		2002 02 (Summer)	220	1300	< 300	7900	9420	2800	< 8.3	38.0	7.9 J	< 8.3	280	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
	MWD13-3	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.30 J	< 0.50	0.20 J	< 0.50	0.90	< 0.50	1.2	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J	0.30 J	< 0.50	0.20 J	0.080 J	1.1	< 0.50	1.1	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	36.0 J	36.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.070 J	< 0.50	0.30 J	0.20 J	< 0.50	0.30 J	< 0.50	0.50	< 0.50	0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	74.0	< 50.0	< 300	< 50.0	74.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.60	< 0.50	0.40 J	< 0.50	2.0	< 0.50	0.80	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	0.30 J	< 0.50	2.9	< 0.50	0.80	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	0.48 J	< 1.0	0.61 J	< 1.0	1.9	< 0.50	1.7	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	0.63 J	< 1.0	0.28 J	< 1.0	3.4	< 0.50	0.75 J	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	1.3	< 0.50	2.8	< 0.50
		2002 02 (Summer)	55.0	< 50.0	73.0 J	< 50.0	128	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	0.60	< 0.50	< 0.20 J	< 0.50	2.9	< 0.50	1.4	< 0.50
	MWD13-4	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 21.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.60	0.090 J	< 0.50	< 0.50	< 0.50	< 0.50	15.0	1.6	0.20 J	1.2	< 0.50	3.3	< 0.50	3.2	0.10 J
		2006 03 (Fall)	25.0 J	< 50.0	< 300	< 50.0	25.0	0.20 J	0.080 J	0.060 J	< 0.50	< 0.50	3.1	0.10 J	< 0.50	< 0.50	0.090 J	< 0.50	14.0	2.5	0.50	3.7	< 0.50	5.1	< 0.50	1.1	0.40 J
		2006 01 (Spring)	< 50.0	< 50.0	< 300	28.0 J	28.0	0.070 J	< 0.50	< 0.50	< 0.50	< 0.50	0.80 J	0.20 J	< 0.50	< 0.50	0.10 J	< 0.50	12.0	1.5	0.20 J	1.2	< 0.50	3.7	< 0.50	2.9	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	25.0 J	25.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	3.1	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	20.0	4.2	0.30 J	4.2	0.20 J	8.0	< 0.50	2.4	< 0.50
		2005 01 (Spring)	190	< 50.0	230 J	< 50.0	420	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	8.0	1.5	< 0.50	1.7	< 0.50	4.9	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	160	< 50.0	220 J	< 50.0	380	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	15.0	3.3	0.40 J	3.5	< 0.50	7.5	< 0.50	1.5	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MWD13-4	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	1.8 J	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	14.0	2.8	0.30 J	2.9	0.10 J	6.3	< 0.50	1.3	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	9.5	1.5	< 1.0	1.1	< 1.0	4.2	< 0.50	2.3	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	2.3 J	0.53 J	< 1.0	< 1.0	< 1.0	< 1.0	24.0	3.4	0.40 J	2.4	< 1.0	7.5	< 0.50	3.6	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	2.2	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	14.0	3.0	0.36 J	3.1	< 1.0	8.3	< 0.50	2.3	< 0.50
		2003 02 (Summer)	< 200	< 290	< 200	< 50.0	< 290	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	17.0	3.2	0.36 J	3.3	< 1.0	8.3	< 0.50	2.7	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.3 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	12.0	2.6	0.20 J	2.2	< 0.50	6.0	< 0.50	2.3	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	18.0 J	18.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	17.0 J	3.6	0.30 J	2.6	< 0.50	7.6	< 0.50	0.80	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	34.0 J	34.0	0.20 J	< 0.50	0.10 J	0.40 J	0.10 J	2.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	22.0	4.2	0.40 J	3.2	< 0.10 J	9.8	< 0.50	2.6	< 0.50
		2002 02 (Summer)	150	< 50.0	210 J	< 50.0	360	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	1.8 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	18.0	3.3	0.40 J	3.4	< 0.50	9.0	< 0.50	3.2	< 0.50
	MWOR-4	2007 01 (Spring)	< 15.0	< 50.0	< 300	< 26.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.080 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	31.0 J	< 50.0	240 J	< 50.0	271	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	D07C-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.090 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	25.0 J	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	22.0 J	< 50.0	< 300	< 50.0	22.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D07C-01	2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	D09-01	2007 01 (Spring)	< 17.0	< 50.0	110 J	< 18.0	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	43.0 J	< 50.0	43.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	12000	< 250	52000	< 50.0	64000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	33.0 J	< 50.0	< 300	< 50.0	33.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.30 J	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D10B-02	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	37.0 J	< 50.0	97.0 J	< 50.0	134	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	27.0 J	< 50.0	< 300	< 50.0	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	65.0 J	< 50.0	65.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D13-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	46.0 J	51.0	230 J	< 50.0	327	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D13-01	2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D19-01	2007 01 (Spring)	< 16.0	< 50.0	130 J	< 18.0	130	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.60	< 0.50	0.30 J	< 0.50	1.6	< 0.50	0.60	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	24.0 J	24.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M07C-06	2005 02 (Summer)	0.39 J	**88.0**	530	< 2.0	< 5.0	1.1 J	3.1	1.5 J	< 3.0	**7200**	< 0.20	2.4 J	4.4 J	1.0 J	< 5.0	< 5.0	0.77 J	21.0	< 100	**23000**	**190**	56.0	< 5.0	51.0
		2004 04 (Winter)	0.77 J	10.0	80.0	< 2.0	< 5.0	0.49 J	0.92 J	0.81 J	0.049 J	670	< 0.20	1.4 J	2.5 J	< 5.0	< 5.0	< 5.0	1.3 J	**41.0**	< 100	830	29.0 J	6.3	1.4 J	8.8
		2004 02 (Summer)	0.23 J	**100**	440	< 1.0	< 1.0	0.56 J	2.5	1.1	0.10 J	**6700**	< 0.20	2.8 J	5.1	1.0	< 1.0	< 1.0	0.77 J	13.0	< 50.0	**21000**	**230**	71.0	5.1	74.0
		2003 04 (Winter)	< 5.0 UJ	**87.0**	558	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**8040**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**26200**	**235**	72.6	4.1	68.9
		2003 02 (Summer)	< 50.0	**112**	**670**	< 4.0	< 5.0	< 10.0	3.0 J	< 10.0	< 10.0	**8050**	< 0.40 UJ	< 50.0	4.6 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**26100**	**243**	76.4	6.1 J	83.0
		2002 04 (Winter)	0.17 J	**96.0**	530	< 2.0	< 5.0	< 10.0	2.1 J	0.61 J	< 3.0	**7800**	< 0.20	2.4 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	7.2 J	**22000**	**230**	69.0	4.5	71.0
		2002 02 (Summer)	0.24 J	12.0	500	< 2.0	0.26 J	1.5 J	3.1 J	0.71 J	0.17 J	**6000**	< 0.20	< 20.0	6.1 J	0.90 J	< 5.0	< 2.0	4.4 J	18.0 J	< 100	2000	**190**	52.0	4.6	47.0
	M07C-08	2007 01 (Spring)	2.5	4.3 J	-	< 2.0	< 5.0	< 1.2	-	16.0	< 0.24	-	0.035 J	-	14.0 J	< 5.0	0.091 J	< 5.0	-	9.6 J	-	-	-	-	-	-
		2006 01 (Spring)	1.8	2.9 J	-	< 2.0	< 5.0	< 10.0	-	10.0	0.20 J	-	< 0.20	-	11.0 J	< 5.0	< 5.0	< 5.0	-	19.0 J	-	-	-	-	-	-
		2005 02 (Summer)	1.9	4.8 J	90.0	< 2.0	< 5.0	1.3 J	1.4	7.0 J	0.46 J	340	< 0.20	4.1 J	**23.0**	0.47 J	< 5.0	< 5.0	2.7 J	19.0 J	15.0 J	370	59.0	7.8 J	13.0	17.0
		2004 04 (Winter)	2.2	3.1 J	110	< 2.0	< 5.0	0.72 J	0.44 J	12.0	0.29 J	110	< 0.20	4.3 J	**21.0**	< 5.0	< 5.0	< 5.0	5.5 J	11.0 J	< 100	< 100	59.0 J	10.0	10.0 J	21.0
		2004 02 (Summer)	3.6	4.3	97.0	< 1.0	0.26 J	0.46 J	1.1	18.0	0.17 J	230	< 0.20	4.6 J	**32.0**	< 1.0	< 1.0	< 1.0	8.4	14.0	8.8 J	< 100	51.0 J	7.1	11.0	15.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	92.4 J	< 4.0	< 5.0	< 10.0	< 10.0	10.7	< 10.0 UJ	32.4	< 0.40	< 50.0	16.8 J	< 20.0	< 10.0	< 5.0 UJ	11.4 J	10.7 J	< 200	< 100	58.1	10.7	9.1	25.5
		2003 02 (Summer)	< 50.0	< 50.0	72.3 J	< 4.0	< 5.0	< 10.0	< 10.0	5.5 J	< 10.0	6.4 J	< 0.40 UJ	< 50.0	9.3 J	< 20.0	< 10.0	< 5.0	8.1 J	< 20.0	< 200	< 100	41.4	5.5	7.1 J	12.9
		2002 04 (Winter)	3.2 J	5.9	72.0	< 2.0	< 5.0	1.7 J	0.34 J	**38.0**	< 3.0	2.1 J	0.15 J	3.4 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	8.6 J	4.9 J	110	300	40.0	4.9	8.9	13.0
		2002 02 (Summer)	< 60.0	8.2	180	< 2.0	0.78 J	< 10.0	< 20.0	12.0	< 3.0	140	< 0.20	6.7 J	**21.0**	< 5.0	< 5.0	< 5.0	7.7 J	12.0 J	4.9 J	46.0 J	87.0	13.0	16.0	32.0
	M07C-09	2005 02 (Summer)	0.43 J	8.7	80.0	< 2.0	< 5.0	1.0 J	0.91 J	5.1 J	< 3.0	**2000**	< 0.20	4.4 J	7.3 J	0.54 J	< 5.0	< 5.0	5.8 J	5.8 J	< 100	360	65.0	36.0	14.0	45.0
		2004 04 (Winter)	0.43 J	6.9	56.0	< 2.0	< 5.0	0.45 J	0.91 J	3.5 J	0.18 J	960	< 0.20	2.7 J	6.9 J	< 5.0	< 5.0	< 5.0	6.5 J	4.5 J	< 100	< 100	45.0 J	28.0	9.6 J	57.0
		2004 02 (Summer)	2.8	7.3	66.0	< 1.0	< 1.0	0.58 J	1.3	2.5	0.058 J	1400	< 0.20	3.1 J	7.6	< 1.0	< 1.0	< 1.0	4.6	16.0	< 50.0	< 100	49.0	32.0	8.6	52.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	58.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	1540	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	< 100	47.2	29.6	9.3	63.9
		2003 02 (Summer)	< 50.0	6.5 J	90.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	< 10.0	**2030**	< 0.40 UJ	< 50.0	7.8 J	< 20.0	< 10.0	< 5.0	5.7 J	< 20.0	< 200	< 100	65.0	36.4	15.3 J	61.1
		2002 04 (Winter)	0.097 J	5.7	45.0	< 2.0	< 5.0	< 10.0	1.2 J	2.9 J	< 3.0	1200	< 0.20	3.3 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	6.3 J	< 20.0	4.6 J	< 140	34.0	23.0	7.2	91.0
		2002 02 (Summer)	< 50.0	5.5	72.0	< 2.0	< 5.0	2.3 J	< 10.0	4.0 J	< 3.0	1200	< 0.20	< 20.0	7.7 J	0.36 J	< 5.0	< 2.0	11.0	2.0 J	< 100	120	54.0	31.0	9.3	65.0
	M10B-01	2005 02 (Summer)	0.42 J	6.3	47.0	< 2.0	< 5.0	1.8 J	< 1.0	< 10.0	< 3.0	230 J	< 0.20	< 20.0	1.7 J	0.68 J	< 5.0	0.49 J	4.2 J	6.0 J	< 100	990	38.0	31.0	26.0	260
		2004 04 (Winter)	1.3	8.7	36.0	< 2.0	< 5.0	< 10.0	0.27 J	1.4 J	0.079 J	220	< 0.20	3.0 J	< 20.0	1.3 J	< 5.0	< 5.0	3.7 J	5.9 J	< 100	1300	36.0	35.0	30.0	440
		2004 02 (Summer)	< 1.0	9.4	45.0	< 1.0	< 1.0	0.60 J	0.35 J	4.5	0.25 J	370	< 0.20	3.0 J	< 20.0	1.2	< 1.0	< 1.0	3.1	**40.0**	4.3 J	2000	42.0 J	48.0	35.0	670
		2003 04 (Winter)	< 5.0 UJ	< 50.0	26.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	270	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	7.1 J	< 20.0	< 200	1780	30.4	33.8	27.3	590
		2003 02 (Summer)	< 50.0	12.7 J	42.9 J	< 4.0	< 5.0	< 10.0	< 10.0	1.5 J	< 10.0	547	< 0.40 UJ	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	14.4 J	< 20.0	< 200	3670	49.4	53.0	28.5 J	690
		2002 04 (Winter)	< 50.0	17.0	44.0	< 2.0	0.066 J	0.75 J	0.40 J	1.6 J	< 3.0	380	< 0.20	2.5 J	< 20.0 UJ	0.49 J	0.019 J	< 2.0	**30.0**	< 20.0	63.0 J	970	52.0	53.0	30.0	730
		2002 02 (Summer)	0.22 J	9.0	66.0	< 2.0	< 5.0	8.0 J	0.42 J	2.0 J	0.31 J	350	**1.7**	4.4 J	1.9 J	3.2 J	< 5.0	< 2.0	9.7 J	9.1 J	38.0 J	1100	62.0	56.0	32.0	690
	M13-06	2007 01 (Spring)	0.15 J	5.8	-	< 2.0	< 5.0	< 0.76	-	0.81 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	9.3 J	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ																										
M13-06	2006 01 (Spring)		< 1.0	0.98 J	-	< 2.0	< 5.0	< 10.0	-	2.3 J	< 3.0	-	< 0.20	-	1.1 J	< 5.0	< 5.0	< 5.0	-	2.1 J	-	-	-	-	-	-
	2005 02 (Summer)		0.13 J	7.0	52.0	< 2.0	< 5.0	1.2 J	< 1.0	< 10.0	0.30 J	460 J	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 5.0	2.0 J	14.0 J	< 100	440	54.0	18.0	8.7	28.0
	2004 04 (Winter)		1.4	6.2	49.0	< 2.0	< 5.0	< 10.0	0.16 J	1.3 J	0.050 J	290	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 5.0	1.5 J	6.7 J	< 100	84.0 J	63.0	19.0	9.0	34.0
	2004 02 (Summer)		0.64 J	7.1	56.0	< 1.0	< 1.0	0.45 J	0.24 J	2.3	0.077 J	560	< 0.20	< 5.0	1.4	< 1.0	< 1.0	< 1.0	1.2	25.0	< 50.0	130	65.0	22.0	9.6	30.0
	2003 04 (Winter)		< 5.0	8.8 J	42.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	501 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	171	56.5	18.8	8.9	37.2
	2003 02 (Summer)		< 50.0	8.4 J	44.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	433 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.5 J	< 200	89.0 J	66.5 J	18.8 J	8.1 J	35.1 J
	2002 04 (Winter)		0.22 J	2.1 J	58.0	< 2.0	< 5.0	0.62 J	0.14 J	2.2 J	< 3.0	42.0	< 0.20	2.9 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	2.1 J	0.84 J	8.1 J	220	50.0	14.0	7.1	36.0
	2002 02 (Summer)		0.15 J	6.0	49.0	< 2.0	< 5.0	2.7 J	0.29 J	1.4 J	0.13 J	310	0.052 J	< 20.0	1.6 J	< 5.0	0.037 J	< 2.0	2.3 J	8.4 J	< 100	140	60.0	17.0	7.7	55.0
M13-07	2007 01 (Spring)		< 0.44	16.0	-	< 2.0	0.18 J	< 1.1	-	0.43 J	< 0.77	-	< 0.16	-	1.6 J	0.39 J	< 0.18	< 5.0	-	22.0	-	-	-	-	-	-
	2006 01 (Spring)		0.61 J	0.79 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	1.2 J	< 5.0	< 5.0	< 5.0	-	12.0 J	-	-	-	-	-	-
	2005 02 (Summer)		0.32 J	25.0	120	< 2.0	< 5.0	7.8 J	0.67 J	0.92 J	< 3.0	3100	< 0.20	1.1 J	23.0	1.1 J	< 5.0	< 5.0	0.98 J	4.7 J	4.2 J	21000	110	24.0	< 5.0	65.0
	2004 04 (Winter)		< 1.0	32.0	140	< 2.0	< 5.0	1.5 J	0.46 J	1.1 J	0.22 J	3400	< 0.20	0.73 J	< 20.0	3.5 J	< 5.0	< 5.0	1.7 J	11.0 J	< 100	25000	120	32.0	6.1	120
	2004 02 (Summer)		2.3	18.0	95.0	< 1.0	< 1.0	0.76 J	0.28 J	0.50 J	< 1.0	1600	< 0.20	< 5.0	0.87 J	0.72 J	< 1.0	< 1.0	1.0	4.3	< 50.0	14000	92.0	20.0	6.7	68.0
	2003 04 (Winter)		< 5.0	49.1 J	156	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5550 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 29.3	< 200	42600	154	40.4	5.7	131
	2003 02 (Summer)		< 50.0	27.4 J	60.5 J	< 4.0	< 5.0	< 10.0	< 10.0	4.3 J	< 10.0	934 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.8 J	2.9 J	187 J	9650	73.7 J	14.6 J	6.0 J	40.5 J
	2002 04 (Winter)		0.17 J	41.0	160	< 2.0	< 5.0	0.53 J	0.48 J	21.0	< 3.0	4200	< 0.20	0.48 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	0.33 J	15.0 J	12.0 J	36000	110	30.0	4.5	130
	2002 02 (Summer)		0.18 J	50.0	190	0.14 J	< 5.0	7.2 J	0.50 J	2.2 J	0.54 J	5200	< 0.20	< 20.0	2.0 J	1.1 J	0.089 J	< 2.0	3.4 J	1.8 J	66.0 J	35000	120	30.0	4.5	120
M13-08	2007 01 (Spring)		0.15 J	< 5.0	-	< 2.0	< 5.0	< 0.54	-	1.9 J	< 3.0	-	< 0.20	-	5.5 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	2006 01 (Spring)		< 1.0	0.70 J	-	< 2.0	< 5.0	< 10.0	-	2.9 J	< 3.0	-	< 0.20	-	5.5 J	< 5.0	< 5.0	< 5.0	-	5.8 J	-	-	-	-	-	-
	2005 02 (Summer)		< 1.0	< 5.0	34.0	< 2.0	< 5.0	< 10.0	0.64 J	1.5 J	< 3.0	650	< 0.20	0.075 J	4.8 J	< 5.0	< 5.0	< 5.0	4.3 J	8.3 J	11.0 J	66.0 J	13.0	14.0	0.55	110
	2004 04 (Winter)		*0.25 J*	*< 5.0*	*32.0*	*< 2.0*	*< 5.0*	*0.40 J*	*0.53 J*	*2.6 J*	*< 3.0*	*370*	*< 0.20*	*0.44 J*	*5.4 J*	*< 5.0*	*< 5.0*	*< 5.0*	*4.3 J*	*5.4 J*	*< 100*	74.0 J	13.0 J	13.0	1.1 J	100
	2004 02 (Summer)		2.1	1.6	33.0	< 1.0	< 1.0	0.75 J	0.50 J	2.6	0.066 J	250	0.047 J	< 5.0	5.4	< 1.0	< 1.0	< 1.0	4.5	9.5	< 50.0	110	14.0	14.0	< 0.50	100
	2003 04 (Winter)		< 5.0	< 50.0	35.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	90.7 J	< 0.40	< 50.0	< 20.0	< 20.0	5.1 J	< 5.0 UJ	6.1 J	< 20.0	< 200	< 100	15.1	15.1	< 2.2	120
	2003 02 (Summer)		*< 50.0*	*< 50.0*	*42.2 J*	*< 4.0*	*< 5.0*	*< 10.0*	*< 10.0*	*1.6 J*	*< 10.0*	*599 J*	*< 0.40*	*< 50.0*	*< 20.0*	*< 20.0*	*< 10.0*	*< 5.0*	*4.4 J*	*3.2 J*	*< 200*	*< 100*	*16.1 J*	*16.6 J*	*0.81 J*	*106 J*
	2002 04 (Winter)		< 50.0	0.58 J	37.0	< 2.0	< 5.0	< 10.0	0.42 J	2.4 J	< 3.0	150	< 0.20	0.41 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	3.7 J	2.8 J	9.6 J	< 100	14.0	14.0	0.68	110
	2002 02 (Summer)		0.051 J	< 5.0	42.0 J	< 2.0	< 5.0	< 10.0	0.42 J	2.3 J	0.81 J	140 J	< 0.20	0.42 J	4.0 J	< 5.0	< 5.0	< 2.0	7.0 J	17.0 J	< 100	7.4 J	16.0	17.0 J	0.75	120
M13-09	*2007 01 (Spring)*		0.42 J	< 5.0	-	< 2.0	< 5.0	< 0.75	-	10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	2006 01 (Spring)		0.82 J	2.9 J	-	< 2.0	0.32 J	< 10.0	-	1.0 J	< 3.0	-	< 0.20	-	2.2 J	< 5.0	< 5.0	< 5.0	-	6.3 J	-	-	-	-	-	-
	2005 02 (Summer)		0.81 J	3.9 J	160	< 2.0	< 5.0	0.91 J	1.4	2.6 J	< 3.0	1900	< 0.20	0.65 J	4.6 J	0.90 J	< 5.0	< 5.0	1.5 J	9.0 J	< 100	4100	76.0	24.0	3.5	31.0
	2004 04 (Winter)		0.56 J	6.2	140	< 2.0	< 5.0	0.52 J	2.0	1.1 J	< 3.0	3500	< 0.20	0.56 J	4.6 J	< 5.0	< 5.0	< 5.0	0.90 J	7.2 J	< 100	14000	75.0 J	25.0	2.8 J	36.0
	2004 02 (Summer)		1.5	3.3	160	< 1.0	< 1.0	0.49 J	1.3	1.1	0.090 J	2400	< 0.20	< 5.0	4.2	0.81 J	< 1.0	< 1.0	1.2	18.0	< 50.0	4400	80.0	25.0	3.0	36.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M13-09	2003 04 (Winter)	< 5.0	< 50.0	137	< 4.0	2.3 J	< 10.0	< 10.0	< 10.0	< 10.0	**4890 J**	**0.21 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**10900**	77.0	25.6	< 2.4	37.8
		2003 02 (Summer)	< 50.0	< 50.0	175	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1060 J	< 0.40	< 50.0	< 20.0	3.9 J	< 10.0	< 5.0	1.7 J	8.3 J	< 200	2070	79.7 J	25.4 J	3.6 J	33.5 J
		2002 04 (Winter)	0.24 J	0.21 J	120	< 2.0	< 5.0	< 10.0	0.94 J	1.1 J	< 3.0	**2800**	< 0.20	0.66 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	6.0 J	24.0 J	650	73.0	25.0	2.4	36.0
		2002 02 (Summer)	< 50.0	< 5.0	120	< 2.0	0.065 J	2.3 J	< 10.0	0.85 J	< 3.0	1400	< 0.20	< 20.0	4.1 J	0.68 J	< 5.0	< 2.0	1.5 J	14.0 J	< 100	420	78.0	23.0	2.6	34.0
	MW-001	2005 02 (Summer)	0.23 J	4.8 J	190	< 2.0	< 5.0	2.1 J	< 1.0	< 10.0	< 3.0	1700 J	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	1.8 J	10.0 J	< 100	**26000**	43.0	30.0	19.0	25.0
		2004 04 (Winter)	1.6	17.0	160	< 2.0	< 5.0	1.5 J	1.1	0.54 J	0.40 J	**2100**	< 0.20	5.0 J	16.0 J	< 5.0	< 5.0	< 5.0	2.5 J	5.2 J	< 100	**31000**	61.0 J	39.0	19.0 J	44.0
		2004 02 (Summer)	1.8	3.1	130	< 1.0	< 1.0	0.93 J	0.22 J	1.0	0.080 J	**1900**	< 0.20	0.57 J	< 20.0	< 1.0	< 1.0	< 1.0	< 1.1	3.7	5.1 J	**25000**	51.0 J	31.0	22.0	29.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	120	< 4.0	< 5.0	< 10.0	10.4	< 10.0	< 10.0 UJ	1640	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	32.3	< 200	**14800**	46.1	28.1	17.2	36.6
		2003 02 (Summer)	< 50.0	18.8 J	288	< 4.0	< 5.0	< 10.0	1.5 J	< 10.0	< 10.0	**1980**	< 0.40 UJ	10.6 J	**24.5**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**21400**	59.2	38.1	28.5 J	35.1
		2002 04 (Winter)	0.54 J	9.7	100	< 2.0	< 5.0	1.2 J	**27.0**	4.6 J	6.7	**3700**	< 0.20	1.5 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	1.3 J	25.0 J	97.0 J	**60000**	92.0	49.0	29.0	54.0
		2002 02 (Summer)	0.44 J	11.0	140	< 2.0	< 5.0	3.1 J	0.61 J	0.57 J	0.52 J	920	< 0.20	< 20.0	2.9 J	< 5.0	< 5.0	< 2.0	2.2 J	0.89 J	110	**8700**	41.0	26.0	16.0	45.0
	MW410-1	2007 01 (Spring)	0.15 J	5.9	-	< 2.0	< 5.0	4.2 J	-	0.92 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	6.1	-	< 2.0	< 5.0	**15.0**	-	< 10.0	< 3.0	-	< 0.20	-	3.7 J	< 5.0	< 5.0	< 5.0	-	2.7 J	-	-	-	-	-	-
		2005 02 (Summer)	0.45 J	8.7	62.0	< 2.0	< 5.0	4.2 J	< 1.0	< 10.0	< 3.0	110 J	< 0.20	< 20.0	1.1 J	< 5.0	< 5.0	< 5.0	5.3 J	2.9 J	< 100	< 100	19.0	11.0	20.0	160
		2004 04 (Winter)	< 1.0	8.5	62.0	< 2.0	< 5.0	2.7 J	0.074 J	0.89 J	< 3.0	110	< 0.20	1.5 J	< 20.0	< 5.0	< 5.0	< 5.0	3.1 J	4.2 J	< 100	41.0 J	23.0	12.0	21.0	250
		2004 02 (Summer)	0.11 J	7.4	73.0	< 1.0	< 1.0	2.5	0.089 J	0.54 J	0.50 J	150	< 0.20	1.7 J	< 20.0	< 1.0	< 1.0	< 1.0	3.6	< 1.0	2.9 J	97.0 J	28.0 J	14.0	23.0	240
		2003 04 (Winter)	< 5.0	8.2 J	101	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	183	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	9.9 J	< 200	185	25.9	14.9	22.3	291
		2003 02 (Summer)	< 50.0	10.7 J	83.5 J	< 4.0	< 5.0	4.8 J	< 10.0	< 10.0	< 10.0	179 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.2 J	< 20.0	< 200	99.9 J	37.0 J	17.4 J	19.6 J	238 J
		2002 04 (Winter)	< 50.0	8.4	56.0	< 2.0	0.055 J	0.51 J	0.11 J	0.60 J	< 3.0	180	< 0.20	1.7 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.6	< 10.0	**89.0 J**	< 100	< 200	21.0	13.0	18.0	270
		2002 02 (Summer)	0.12 J	8.5	61.0	< 2.0	< 5.0	4.3 J	0.12 J	1.0 J	0.043 J	160	< 0.20	< 20.0	0.76 J	0.85 J	< 5.0	< 2.0	3.8 J	2.7 J	< 100	140	29.0	12.0	18.0	180
	MW410-2	2007 01 (Spring)	< 1.0	2.9 J	-	< 2.0	< 5.0	1.7 J	-	0.84 J	< 3.0	-	< 0.20	-	6.5 J	0.35 J	< 5.0	< 5.0	-	8.7 J	-	-	-	-	-	-
		2006 01 (Spring)	0.52 J	3.1 J	-	< 2.0	< 5.0	2.3 J	-	5.4 J	0.23 J	-	< 0.20	-	3.4 J	< 5.0	< 5.0	< 5.0	-	7.2 J	-	-	-	-	-	-
		2005 02 (Summer)	0.20 J	13.0	160	< 2.0	< 5.0	1.8 J	0.37 J	< 10.0	< 3.0	190 J	< 0.20	< 20.0	7.6 J	0.62 J	< 5.0	< 5.0	2.4 J	6.9 J	< 100	670	38.0	19.0	18.0	66.0
		2004 04 (Winter)	0.87 J	**35.0**	160	< 2.0	< 5.0	< 10.0	0.58 J	0.77 J	0.076 J	710	< 0.20	0.68 J	< 20.0	< 5.0	< 5.0	0.25 J	0.76 J	7.7 J	6.2 J	1600	62.0	31.0	18.0	86.0
		2004 02 (Summer)	0.12 J	**31.0**	170	< 1.0	< 1.0	0.21 J	0.54 J	0.59 J	0.30 J	690	< 0.20	0.94 J	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2	3.6 J	1500	61.0 J	32.0	19.0	74.0
		2003 04 (Winter)	< 5.0	**44.5 J**	196	< 4.0	< 5.0	< 10.0	6.0 J	< 10.0	< 10.0	919	< 0.40	< 50.0	**25.7**	< 20.0	< 10.0	< 5.0	< 50.0	7.2 J	< 200	2860	69.0	35.8	20.6	108
		2003 02 (Summer)	< 50.0	**35.4 J**	246	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	966 J	< 0.40	< 50.0	**21.2**	< 20.0	< 10.0	< 5.0	< 50.0	3.1 J	< 200	3440	79.8 J	42.5 J	27.1 J	124 J
		2002 04 (Winter)	< 50.0	**37.0**	290	< 2.0	0.073 J	0.80 J	2.3 J	0.59 J	< 3.0	1300	< 0.20	0.49 J	16.0 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	4400	90.0	49.0	23.0	190
		2002 02 (Summer)	0.12 J	**28.0**	270	< 2.0	< 5.0	7.5 J	1.7 J	1.0 J	1.1 J	930	< 0.20	< 20.0	**31.0**	< 5.0	< 5.0	< 2.0	2.6 J	1.4 J	< 100	2500	90.0	45.0	19.0	150
	MW410-3	2007 01 (Spring)	< 1.0	1.6 J	-	< 2.0	< 5.0	2.9 J	-	0.98 J	< 3.0	-	< 0.20	-	2.0 J	0.73 J	< 5.0	< 5.0	-	6.9 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.1 J	-	< 2.0	< 5.0	1.3 J	-	1.8 J	< 3.0	-	< 0.20	-	1.3 J	< 5.0	< 5.0	3.0 J	-	< 20.0	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
		AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	MW410-3	2005 02 (Summer)	0.29 J	2.3 J	120	< 2.0	< 5.0	1.6 J	< 1.0	< 10.0	< 3.0	24.0 J	< 0.20	5.1 J	2.5 J	1.0 J	< 5.0	< 5.0	5.3 J	5.5 J	< 100	220	32.0	15.0	19.0	40.0
		2004 04 (Winter)	0.45 J	1.2 J	130	< 2.0	< 5.0	0.65 J	0.13 J	1.0 J	< 3.0	26.0	< 0.20	3.9 J	1.9 J	< 5.0	< 5.0	< 5.0	4.4 J	4.3 J	< 100	< 100	42.0 J	18.0	19.0 J	34.0
		2004 02 (Summer)	0.079 J	1.5	140	< 1.0	< 1.0	0.57 J	0.12 J	0.88 J	0.14 J	34.0	< 0.20	4.3 J	2.1	0.85 J	< 1.0	< 1.0	4.2	2.6	< 50.0	< 100	46.0	20.0	21.0	30.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	171	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	36.6	-	< 50.0	< 20.0	< 20.0	< 10.0	-	8.5 J	< 20.0	< 200	< 100	57.9	24.2	23.0	28.6
		2003 02 (Summer)	< 50.0	< 50.0	156	< 4.0	< 5.0	1.7 J	< 10.0	< 10.0	< 10.0	47.0 J	< 0.40	6.3 J	< 20.0	< 20.0	< 10.0	< 5.0	4.0 J	< 20.0	< 200	< 100	54.4 J	23.5 J	20.8 J	35.8 J
		2002 04 (Winter)	< 50.0	0.77 J	120	< 2.0	0.074 J	0.76 J	0.12 J	0.85 J	< 3.0	43.0	< 0.20	5.2 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	2.8 J	1.6 J	< 100	< 140	44.0	19.0	18.0	26.0
		2002 02 (Summer)	0.090 J	1.4 J	150	< 2.0	0.22 J	2.2 J	0.17 J	2.9 J	0.51 J	110	< 0.20	4.2 J	4.8 J	0.45 J	< 5.0	< 2.0	4.1 J	5.5 J	5.7 J	110	54.0	22.0	21.0	30.0
	MW410-4	2007 01 (Spring)	< 0.10	3.7 J	-	< 2.0	< 5.0	8.3 J	-	0.37 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	5.6	-	< 2.0	< 5.0	6.0 J	-	1.4 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	2.3 J	-	-	-	-	-	-
		2005 02 (Summer)	0.13 J	6.6	49.0	< 2.0	< 5.0	5.8 J	< 1.0	< 10.0	< 3.0	< 10.0	< 0.20	< 20.0	0.58 J	0.73 J	< 5.0	0.095 J	10.0	2.7 J	< 100	< 100	23.0	7.4	9.7	31.0
		2004 04 (Winter)	< 1.0	7.0	42.0	< 2.0	< 5.0	3.0 J	< 1.0	0.65 J	0.14 J	< 10.0	< 0.20	0.77 J	< 20.0	< 5.0	< 5.0	< 5.0	9.6 J	2.3 J	< 100	< 100	25.0	6.6	7.9	35.0
		2004 02 (Summer)	0.067 J	4.9	31.0	< 1.0	< 1.0	2.2	< 1.0	0.53 J	0.16 J	< 10.0	0.048 J	< 5.0	0.73 J	0.62 J	< 1.0	< 1.0	7.3	2.6	< 50.0	< 100	18.0	4.7	6.2	20.0
		2003 04 (Winter)	< 5.0	4.8 J	37.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	10.7 J	< 20.0	< 200	< 100	22.7	5.9	8.0	38.0
		2003 02 (Summer)	< 50.0	< 50.0	48.3 J	< 4.0	< 5.0	4.7 J	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	10.6 J	4.2 J	< 200	< 100	24.1 J	6.5 J	9.6 J	45.6 J
		2002 04 (Winter)	< 50.0	2.4 J	56.0	< 2.0	< 5.0	3.1 J	0.033 J	0.45 J	< 3.0	< 10.0	< 0.20	0.85 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	4.8 J	1.8 J	< 100	< 100	29.0	7.4	12.0	65.0
		2002 02 (Summer)	0.10 J	3.7 J	62.0	< 2.0	< 5.0	7.1 J	0.033 J	0.48 J	0.029 J	< 10.0	< 0.20	< 20.0	0.47 J	0.50 J	< 5.0	< 2.0	7.2 J	< 20.0	< 100	54.0 J	29.0	7.5	12.0	64.0
	MW530-2	2005 02 (Summer)	0.47 J	12.0	44.0	< 2.0	< 5.0	1.8 J	0.40 J	2.1 J	< 3.0	47.0	< 0.20	11.0 J	5.3 J	6.9	< 5.0	< 5.0	10.0	3.9 J	2.9 J	120	19.0	12.0	18.0	320
		2004 04 (Winter)	0.74 J	12.0	190	< 2.0	< 5.0	0.86 J	1.7	2.4 J	0.21 J	1100	< 0.20	6.1 J	< 20.0	1.6 J	< 5.0	< 5.0	6.5 J	16.0 J	< 100	1100	49.0	100	55.0	1700
		2004 02 (Summer)	0.19 J	11.0	51.0	< 1.0	< 1.0	0.92 J	3.2	3.4	0.50 J	270	< 0.20	11.0	**22.0**	2.7	< 1.0	< 1.0	6.9	12.0	< 50.0	91.0 J	17.0	23.0	24.0	610
		2003 04 (Winter)	< 5.0	8.1 J	155	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	811	< 0.40	< 50.0	**28.5**	< 20.0	< 10.0	< 25.0	8.7 J	< 20.0	< 200	926	46.6	75.9	47.8	1390
		2003 02 (Summer)	< 50.0	11.1 J	54.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	128 J	< 0.40	5.9 J	17.3 J	< 20.0	< 10.0	< 5.0	2.5 J	1.5 J	< 200	82.5 J	22.7 J	16.3 J	14.4 J	339 J
		2002 04 (Winter)	< 50.0	8.2	50.0	< 2.0	< 5.0	< 10.0	0.31 J	0.61 J	< 3.0	61.0	0.12 J	3.1 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	3.1 J	< 100	< 100	20.0	12.0	15.0	270
		2002 02 (Summer)	0.20 J	9.4	57.0	< 2.0	< 5.0	1.7 J	0.30 J	0.92 J	0.075 J	54.0	< 0.20	< 20.0	2.0 J	0.76 J	< 5.0	< 2.0	6.3 J	< 20.0	< 100	64.0 J	29.0	13.0	14.0	180
	MW530-3	2005 02 (Summer)	0.081 J	4.6 J	88.0	< 2.0	< 5.0	0.95 J	0.30 J	< 10.0	< 3.0	230 J	< 0.20	< 20.0	1.1 J	< 5.0	< 5.0	< 5.0	2.4 J	7.4 J	< 100	420	67.0	12.0	9.8	21.0
		2004 04 (Winter)	0.70 J	3.7 J	81.0	< 2.0	0.25 J	0.39 J	0.19 J	2.4 J	0.049 J	180	< 0.20	2.0 J	1.1 J	< 5.0	< 5.0	< 5.0	3.8 J	8.9 J	< 100	440	90.0 J	11.0	9.6 J	31.0
		2004 02 (Summer)	0.24 J	9.5	110	< 1.0	0.37 J	< 1.0	0.11 J	4.6	0.33 J	44.0	< 0.20	6.3	< 20.0	< 1.0	< 1.0	< 1.0	6.8	4.3	9.2 J	< 100	74.0 J	20.0	15.0	110
		2003 04 (Winter)	< 5.0 UJ	< 50.0	15.7 J	< 4.0	< 5.0	< 10.0	< 10.0	8.1 J	< 10.0 UJ	14.5	-	< 50.0	< 20.0	< 20.0	< 10.0	-	11.6 J	< 20.4	< 200	< 100	13.2	1.3	< 1.8	< 6.7
		2003 02 (Summer)	< 50.0	13.2 J	27.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	123	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	66.1 J	40.1	6.3	5.3 J	23.7
		2002 04 (Winter)	< 50.0	16.0	47.0	< 2.0	0.19 J	< 10.0	0.11 J	0.84 J	< 3.0	290	< 0.20	2.1 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	33.0 J	< 100	420	76.0	8.2	5.9	30.0
		2002 02 (Summer)	< 50.0	18.0	45.0	< 2.0	< 5.0	1.7 J	0.090 J	0.31 J	< 3.0	170	< 0.20	< 20.0	0.42 J	< 5.0	< 5.0	< 2.0	0.93 J	1.7 J	< 100	220	75.0	6.4	5.7	22.0
	MW547-3	2005 02 (Summer)	1.4	14.0	220	< 2.0	< 5.0	0.93 J	1.8	2.4 J	0.30 J	**3400**	< 0.20	6.3 J	7.6 J	0.99 J	< 5.0	< 5.0	3.7 J	9.3 J	3.0 J	1800	49.0	44.0	21.0	220

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	MW547-3	2004 04 (Winter)	1.4	20.0	330	< 2.0	< 5.0	0.62 J	3.2	0.72 J	0.15 J	**5300**	< 0.20	3.6 J	6.4 J	< 5.0	< 5.0	< 5.0	1.1 J	3.3 J	< 100	**9900**	63.0 J	57.0	21.0 J	210
		2004 02 (Summer)	1.5	20.0	310	< 1.0	< 1.0	0.48 J	0.19 J	0.46 J	0.11 J	**3200**	0.059 J	< 5.0	0.91 J	< 1.0	< 1.0	0.30 J	0.71 J	6.8	< 50.0	**13000**	97.0	30.0	11.0	89.0
		2003 04 (Winter)	< 5.0	**39.6 J**	505	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**10200**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**24600**	101	90.6	26.8	234
		2003 02 (Summer)	< 50.0	**41.0 J**	520 J	< 4.0	< 5.0	< 10.0	5.6 J	< 10.0	< 10.0	**10600 J**	-	< 50.0	8.7 J	< 20.0	< 10.0	< 5.0	< 50.0	1.5 J	< 200	**29000 J**	108	99.9	45.6 J	194 J
		2002 04 (Winter)	0.86 J	**30.0**	470	< 2.0	< 5.0	0.23 J	5.5 J	0.62 J	< 3.0	**11000**	< 0.20	3.3 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	18.0 J	**26000**	100	94.0	26.0	240
		2002 02 (Summer)	0.90 J	**41.0**	490 J	< 2.0	< 5.0	< 10.0	6.3 J	0.68 J	0.33 J	**11000 J**	< 0.20	3.6 J	6.8 J	0.63 J	< 5.0	< 2.0	7.0 J	4.1 J	210	**26000**	96.0	86.0 J	21.0	200
	MWD13-3	2007 01 (Spring)	0.69 J	1.9 J	-	0.49 J	0.47 J	1.2 J	-	< 10.0	< 1.4	-	< 0.20	-	1.6 J	0.53 J	0.50 J	0.58 J	-	< 2.5	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	2.1 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	1.3 J	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.27 J	1.3 J	25.0	< 2.0	< 5.0	1.1 J	0.057 J	1.6 J	< 3.0	29.0	0.096 J	2.7 J	2.5 J	0.46 J	< 5.0	< 5.0	0.53 J	6.0 J	9.8 J	170	31.0 J	5.8	11.0 J	47.0 J
		2004 04 (Winter)	1.5	0.83 J	33.0	< 2.0	< 5.0	0.36 J	0.099 J	0.52 J	0.31 J	70.0	< 0.20	1.9 J	1.3 J	< 5.0	< 5.0	< 5.0	0.88 J	3.1 J	< 100	74.0 J	41.0 J	6.6	6.9 J	33.0
		2004 02 (Summer)	1.2	1.4	28.0	< 1.0	< 1.0	0.33 J	0.070 J	1.1	0.14 J	42.0	0.064 J	2.1 J	1.7	< 1.0	< 1.0	< 1.0	0.59 J	8.5	< 50.0	62.0 J	36.0	5.8	7.8	37.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	27.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	56.8	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	58.8 J	34.9	5.6	6.5	29.9
		2003 02 (Summer)	< 50.0	< 50.0	34.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	44.0 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	61.6 J	65.1 J	39.3 J	6.3 J	8.9 J	42.7 J
		2002 04 (Winter)	0.57 J	0.64 J	< 41.0	< 2.0	< 5.0 UJ	< 10.0	0.17 J	1.1 J	0.20 J	44.0	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 2.0	5.3 J	**120**	23.0 J	< 130	32.0	5.4	3.5	30.0
		2002 02 (Summer)	< 50.0	< 5.0	22.0	< 2.0	< 5.0	0.88 J	< 10.0	0.31 J	< 3.0	23.0	< 0.20	< 20.0	1.4 J	1.3 J	< 5.0	< 2.0	1.5 J	0.70 J	9.8 J	72.0 J	30.0	4.6	7.8	38.0
	MWD13-4	2007 01 (Spring)	< 1.6	4.3 J	-	0.70 J	0.77 J	2.9 J	-	1.2 J	< 0.85	-	< 0.20	-	2.8 J	1.2 J	0.85 J	0.63 J	-	< 3.1	-	-	-	-	-	-
		2006 01 (Spring)	0.15 J	4.7 J	-	< 2.0	< 5.0	1.9 J	-	< 10.0	< 3.0	-	< 0.20	-	1.3 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.94 J	4.3 J	9.3 J	< 2.0	< 5.0	1.1 J	< 1.0	5.3 J	< 3.0	< 10.0	< 0.20	5.6 J	2.1 J	0.67 J	< 5.0	< 5.0	19.0	< 20.0	280	69.0 J	14.0	< 0.50 UJ	13.0	160
		2004 04 (Winter)	0.91 J	3.9 J	9.3 J	< 2.0	< 5.0	0.47 J	< 1.0	1.2 J	0.12 J	< 10.0	< 0.20	5.2 J	2.1 J	< 5.0	< 5.0	< 5.0	20.0	1.7 J	500	< 100	16.0 J	< 0.50	12.0 J	170
		2004 02 (Summer)	2.0	4.5	9.7	< 1.0	< 1.0	0.59 J	< 1.0	1.7	0.12 J	1.0	< 0.20	5.4	1.7	< 1.0	< 1.0	0.18 J	21.0	7.6	360	51.0	15.0 J	0.0076 J	11.0	200
		2003 04 (Winter)	< 5.0 UJ	< 50.0	9.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0	-	< 50.0	< 20.0	< 20.0	< 10.0	-	24.6 J	< 20.0	439	< 100	17.2	< 0.50	12.4	191
		2003 02 (Summer)	< 50.0	6.4 J	10.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	8.8 J	< 20.0	< 20.0	< 10.0	< 5.0	25.7 J	< 20.0	507	< 100	18.0 J	< 0.50	18.1 J	177 J
		2002 04 (Winter)	0.60 J	3.9 J	9.3 J	< 2.0	< 5.0	< 10.0	0.046 J	0.83 J	< 3.0	0.23 J	< 0.20	5.7 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	17.0	2.1 J	380	< 100	16.0	< 0.50	11.0	220
		2002 02 (Summer)	< 50.0	< 5.0	10.0 J	< 2.0	< 5.0	0.75 J	< 10.0	0.52 J	< 3.0	< 10.0	< 0.20	< 20.0	1.6 J	0.85 J	< 5.0	< 2.0	19.0	1.4 J	340	36.0 J	17.0	0.014 J	11.0	180
	MWOR-4	2007 01 (Spring)	0.36 J	< 5.0	-	0.18 J	< 5.0	< 1.9	-	< 10.0	< 0.20	-	< 0.20	-	< 20.0	< 5.0	0.15 J	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	0.55 J	2.4 J	-	0.25 J	0.69 J	< 10.0	-	1.6 J	< 3.0	-	< 0.20	-	3.3 J	< 5.0	< 5.0	< 5.0	-	2.5 J	-	-	-	-	-	-
		2005 02 (Summer)	0.31 J	0.83 J	48.0	< 2.0	< 5.0	1.9 J	0.044 J	0.92 J	< 3.0	1.5 J	< 0.20	0.61 J	1.9 J	0.64 J	< 5.0	< 5.0	2.6 J	2.3 J	< 100	100	17.0	9.0 J	< 5.0	12.0
		2004 04 (Winter)	0.51 J	< 5.0	65.0	< 2.0	< 5.0	0.57 J	0.079 J	1.4 J	< 3.0	< 10.0	< 0.20	0.78 J	2.4 J	< 5.0	< 5.0	< 5.0	2.4 J	23.0	< 100	120	30.0 J	40.0	12.0 J	170
		2004 02 (Summer)	2.8	1.2	53.0	< 1.0	< 1.0	1.3	< 1.0	0.85 J	< 1.0	< 10.0	< 0.20	< 5.0	1.2	2.3	< 1.0	< 1.0	2.9	4.7	< 50.0	< 100	20.0	9.9	3.4	16.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	69.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	27.9	13.9	4.1	27.6
		2003 02 (Summer)	< 50.0	< 50.0	41.3 J	< 4.0	< 5.0	< 10.0	< 10.0	1.9 J	< 10.0	303	< 0.40 UJ	< 50.0	3.3 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	48.6 J	73.8	39.9	32.9 J	135

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
		AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
	Well No.	Event																								
FWBZ	MWOR-4	2002 04 (Winter)	0.15 J	0.64 J	64.0	< 2.0	< 5.0	0.23 J	0.10 J	1.2 J	< 3.0	1.8 J	< 0.20	< 20.0	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	2.0 J	< 20.0	6.0 J	< 140	28.0	14.0	3.1	39.0
		2002 02 (Summer)	< 50.0	1.1 J	60.0	< 2.0	< 5.0	1.5 J	< 10.0	1.1 J	< 3.0	1.4 J	< 0.20	< 20.0	2.5 J	0.82 J	< 5.0	< 2.0	2.7 J	1.2 J	< 100	56.0 J	27.0	12.0	2.7	31.0
SWBZ	D07C-01	2007 01 (Spring)	0.57 J	1.7 J	-	0.49 J	0.46 J	< 0.99	-	1.2 J	< 0.33	-	< 0.20	-	2.2 J	0.47 J	0.31 J	< 5.0	-	< 1.5	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	2.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	1.2 J	-	< 0.20	-	< 20.0	< 5.0	3.3 J	9.8	-	11.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.32 J	2.1 J	88.0	< 2.0	0.79 J	0.94 J	0.34 J	3.1 J	< 3.0	370	< 0.20	0.56 J	4.5 J	0.75 J	< 5.0	< 5.0	4.1 J	12.0 J	2.8 J	400	71.0	74.0	1.5	150
		2004 04 (Winter)	4.8 J	8.8 J	84.0	< 10.0	2.2 J	2.1 J	2.4 J	8.5 J	< 15.0	520	< 0.20	2.3 J	22.0 J	< 25.0	< 25.0	< 25.0	24.0 J	28.0 J	< 500	< 100	70.0 J	72.0	1.1 J	160
		2004 02 (Summer)	4.4	1.3	87.0	< 1.0	0.27 J	0.13 J	0.41 J	1.6	0.13 J	160	0.052 J	0.42 J	< 20.0	0.70 J	< 1.0	< 1.0	4.4	7.9	5.0 J	< 100	69.0 J	70.0	0.78	160
		2003 04 (Winter)	< 5.0	< 50.0	82.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	521 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	5.2 J	< 20.0	< 200	< 100	68.4	69.9	< 1.9	173
		2003 02 (Summer)	< 50.0	< 50.0	91.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	74.6	< 0.40 UJ	< 50.0	1.6 J	< 20.0	< 10.0	< 5.0	4.4 J	< 20.0	< 200	< 100	73.4	76.5	1.6 J	146
		2002 04 (Winter)	0.079 J	0.96 J	89.0	< 2.0	< 5.0	< 10.0	0.48 J	1.3 J	< 3.0	190	< 0.20	0.50 J	< 20.0 UJ	0.38 J	< 5.0	< 2.0	3.4 J	26.0 J	6.1 J	300	66.0	67.0	1.2	160
		2002 02 (Summer)	< 50.0	0.99 J	89.0	< 2.0	< 5.0	< 10.0	0.98 J	< 10.0	< 3.0	410	< 0.20	< 20.0	< 20.0	2.2 J	< 5.0	< 2.0	< 10.0	< 20.0	3.5 J	< 100	69.0	73.0	1.3	180
	D09-01	2007 01 (Spring)	0.25 J	2.0 J	-	< 2.0	3.5 J	< 0.61	-	1.3 J	< 3.0	-	0.097 J	-	12.0 J	1.1 J	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	0.14 J	3.7 J	-	< 2.0	3.7 J	3.4 J	-	< 10.0	5.4	-	< 0.20	-	11.0 J	8.6	10.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	< 5.0	63.0	< 2.0	2.5 J	< 10.0	14.0	2.2 J	< 3.0	14000	< 0.20	0.47 J	19.0 J	63.0	< 5.0	< 5.0	< 10.0	120	10.0 J	6900	950	1100	10.0	4200
		2004 04 (Winter)	0.72 J	15.0	65.0	< 2.0	0.60 J	0.88 J	16.0	6.9 J	0.15 J	16000	< 0.20	0.50 J	< 200	27.0	< 5.0	< 5.0	1.2 J	34.0	< 100	47.0 J	1400	1700	12.0	5800
		2004 02 (Summer)	0.41 J	< 1.0	76.0	< 1.0	< 1.0	0.31 J	15.0	5.2	1.0	17000	< 0.20	0.65 J	120 J	< 1.0	< 1.0	< 1.0	< 1.2	< 1.0	3.5 J	< 100	1400 J	1600	14.0	5500
		2003 04 (Winter)	< 5.0	< 50.0	64.1 J	< 4.0	< 5.0	< 10.0	14.7	< 10.0	< 10.0	15700	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	46.0 J	1860 J	2170 J	22.4 J	7390 J
		2003 02 (Summer)	< 50.0	< 50.0	66.3 J	< 4.0	< 5.0	< 10.0	16.2	1.3 J	< 10.0	16100	< 0.40 UJ	< 50.0	13.3 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	61.5 J	1500	1770	48.6 J	5340
		2002 04 (Winter)	< 50.0	< 5.0	69.0	< 2.0	< 5.0	0.53 J	15.0	7.7 J	< 3.0	16000	< 0.20	0.91 J	< 20.0 UJ	< 5.0 UJ	0.038 J	< 2.0	< 10.0	< 20.0	< 100	5500	1600	1900	11.0	6500
		2002 02 (Summer)	< 50.0	< 5.0	72.0	< 2.0	2.0 J	7.3 J	13.0	7.4 J	< 3.0	14000	< 0.20	< 20.0	< 20.0	< 5.0	0.24 J	< 2.0	3.0 J	< 100	< 100	3700	1300	1500	12.0	5300
	D10B-02	2007 01 (Spring)	3.0	1.4 J	-	< 2.0	0.26 J	< 2.5	-	4.7 J	< 0.16	-	< 0.20	-	0.54 J	0.32 J	< 5.0	< 5.0	-	23.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.1 J	-	0.34 J	0.72 J	< 10.0	-	1.7 J	0.22 J	-	< 0.20	-	2.1 J	< 5.0	< 5.0	< 5.0	-	9.6 J	-	-	-	-	-	-
		2005 02 (Summer)	0.16 J	3.2 J	82.0	< 2.0	< 5.0	1.1 J	0.43 J	< 10.0	< 3.0	280 J	< 0.20	< 20.0	3.8 J	1.6 J	< 5.0	< 5.0	1.1 J	13.0 J	< 100	1200	170	100	4.7	900
		2004 04 (Winter)	0.61 J	5.6	64.0	< 2.0	< 5.0 UJ	0.33 J	0.38 J	1.8 J	0.17 J	420	< 0.20	1.2 J	3.4 J	9.0	< 5.0	< 5.0	1.1 J	9.5 J	2.0 J	950	220	150	4.9 J	1300
		2004 02 (Summer)	0.21 J	2.4	74.0	< 1.0	< 1.0	0.24 J	0.24 J	1.9	0.38 J	290	< 0.20	1.7 J	< 20.0	< 1.0	< 1.0	< 1.0	< 1.6	< 1.0	4.4 J	< 100	220 J	130	5.0	1200
		2003 04 (Winter)	< 5.0	< 50.0	70.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	300	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	247 J	160 J	5.6 J	1590 J
		2003 02 (Summer)	< 50.0	< 50.0	72.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	208 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 100	< 50.0	2.7 J	90.7 J	< 100	254 J	131 J	5.2 J	1130 J
		2002 04 (Winter)	< 50.0	3.3 J	83.0	< 2.0	0.083 J	0.16 J	0.31 J	0.71 J	< 3.0	150	< 0.20	2.0 J	< 20.0 UJ	7.4 J	< 5.0	< 2.0	< 10.0	< 20.0	< 100	940	300	110	4.5	1400
		2002 02 (Summer)	< 50.0	2.1 J	84.0	< 2.0	< 5.0	1.1 J	0.54 J	< 10.0	< 3.0	360	< 0.20	< 20.0	< 20.0	6.0	-	< 2.0	1.3 J	< 20.0	< 100	630	210	140	4.3	1200
	D13-01	2007 01 (Spring)	0.26 J	< 5.0	-	< 2.0	< 5.0	< 0.64	-	1.5 J	< 0.15	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	8.9 J	-	-	-	-	-	-
		2006 01 (Spring)	0.43 J	2.4 J	-	0.26 J	0.57 J	< 10.0	-	2.6 J	0.24 J	-	< 0.20	-	1.3 J	< 5.0	< 5.0	< 5.0	-	1.4 J	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
SWBZ	D13-01	2005 02 (Summer)	0.41 J	3.5 J	260	< 2.0	< 5.0	1.4 J	0.67 J	< 10.0	< 3.0	500 J	< 0.20	< 20.0	2.5 J	0.81 J	< 5.0	< 5.0	5.7 J	23.0	< 100	710	100	110	2.4	110
		2004 04 (Winter)	0.28 J	2.9 J	280	< 2.0	< 5.0	0.36 J	0.58 J	2.0 J	< 3.0	570	< 0.20	0.44 J	1.6 J	< 5.0	< 5.0	< 5.0	5.1 J	4.1 J	< 100	32.0 J	130 J	140	2.8 J	120
		2004 02 (Summer)	1.3	1.6	260	< 1.0	< 1.0	0.93 J	0.29 J	1.2	0.078 J	26.0	< 0.20	< 5.0	1.3	< 1.0	< 1.0	< 1.0	4.4	**76.0**	< 50.0	< 100	120	65.0	2.0	840
		2003 04 (Winter)	< 5.0	< 50.0	354	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	721	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	2.6 J	5.0 J	31.7	< 200	< 100	**166 J**	183 J	2.9 J	168 J
		2003 02 (Summer)	< 50.0	< 50.0	333	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	659	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.7 J	< 20.0	< 200	< 100	151	177	3.2 J	136
		2002 04 (Winter)	0.17 J	2.7 J	310	< 2.0	< 5.0	0.090 J	0.60 J	1.9 J	< 3.0	580	0.046 J	< 20.0	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	3.9 J	< 20.0	4.8 J	650	140	150	2.2	140
		2002 02 (Summer)	< 50.0	2.4 J	260	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	540	< 0.20	< 20.0	< 20.0	2.4 J	< 5.0	< 2.0	< 10.0	< 20.0	260	< 100	130	140	2.3	130
	D19-01	2007 01 (Spring)	0.13 J	< 5.0	-	< 2.0	< 5.0	< 0.58	-	2.7 J	< 3.0	-	< 0.20	-	**60.0**	< 5.0	0.17 J	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	0.54 J	1.0 J	-	0.48 J	1.2 J	< 10.0	-	2.4 J	< 3.0	-	< 0.20	-	**31.0**	2.6 J	0.15 J	< 5.0	-	12.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.28 J	3.5 J	52.0	< 2.0	0.32 J	1.0 J	2.7	3.3 J	< 3.0	**10000 J**	< 0.20	0.76 J	**24.0**	5.9	0.059 J	0.15 J	3.3 J	**41.0**	3.1 J	3000	**550 J**	**640 J**	10.0 J	2600 J
		2004 04 (Winter)	0.38 J	8.8	45.0	< 2.0	< 5.0	0.88 J	2.9	4.4 J	0.051 J	**11000**	< 0.20	0.71 J	**22.0**	< 5.0	< 5.0	< 5.0	3.5 J	13.0 J	< 100	< 100	**570 J**	**680**	10.0 J	2700
		2004 02 (Summer)	0.81 J	< 1.0	50.0	< 1.0	0.76 J	0.36 J	3.2	4.1	0.16 J	**10000**	< 0.20	1.0 J	**21.0**	< 1.0	0.41 J	< 1.0	3.6	< 1.0	4.5 J	< 100	**630 J**	**730**	11.0	2700
		2003 04 (Winter)	< 5.0 UJ	< 50.0	38.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**9930**	< 0.40	**16.3 J**	**26.7**	< 20.0	< 10.0	< 10.0 UJ	5.3 J	< 20.0	< 200	< 100	**555**	**693**	11.8	3080
		2003 02 (Summer)	< 50.0	< 50.0	52.9 J	< 4.0	1.4 J	< 10.0	2.5 J	2.4 J	< 10.0	**10900**	< 0.40 UJ	< 50.0	**23.1**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	< 100	**742**	**843**	30.2 J	2850
		2002 04 (Winter)	0.12 J	7.6	53.0 J	< 2.0	0.87 J	< 10.0	2.8 J	3.8 J	< 3.0	**12000 J**	< 0.20	0.89 J	19.0 J	**28.0**	< 5.0 UJ	< 2.0	2.9 J	< 20.0	< 100	2000	**630 J**	**760 J**	9.7	3200
		2002 02 (Summer)	< 50.0	4.8 J	47.0	< 2.0	< 5.0	8.6 J	< 10.0	< 10.0	< 3.0	**8600**	< 0.20	< 20.0	< 21.0	**21.0 J**	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	< 100	**620**	**720**	9.8	2800

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	530MJ-MW1	09/07/05	***5.93***	4.73	-159.0
		03/10/05	6.71	0.05	-213.0
		11/11/04	6.68	0.18	-40.0
		07/06/04	6.78	0.27	-200.0
		03/04/04	6.92	1.53	-4.0
		12/22/03	7.09	0.12	183.0
		09/19/03	7.06	0.42	36.0
First	530MJ-MW2	09/07/05	6.17	4.76	-162.0
		03/10/05	6.77	0.00	-182.0
		11/12/04	6.54	0.13	76.0
		07/06/04	6.72	0.43	-118.0
		03/04/04	6.88	0.30	-157.0
		12/22/03	6.91	0.38	-70.0
		09/19/03	7.04	0.35	-37.0
First	M07C-06	09/08/05	6.39	0.98	-210.0
		03/10/05	6.95	0.01	-158.0
		11/12/04	6.63	0.31	118.0
		07/07/04	6.55	1.80	-110.0
		03/03/04	6.83	0.17	-25.0
		12/08/03	6.81	0.21	-114.0
		09/17/03	6.83	0.67	-148.0
		06/30/03	6.66	0.19	-121.0
		04/14/03	7.07	0.34	-46.0
		12/17/02	6.37	8.87	-168.0
		09/05/02	6.86	0.32	-169.0
		06/21/02	6.94	1.00	35.0
First	M07C-08	03/28/07	9.01	3.14	387.7
		10/16/06	6.11	0.33	-239.2
		05/01/06	6.62	4.27	75.0
		09/08/05	6.04	0.39	12.0
		11/12/04	6.47	0.57	165.0
		07/06/04	6.25	0.39	3.0
		12/08/03	6.67	4.72	241.0
		06/30/03	6.43	0.56	163.0
		12/17/02	6.24	***12.93***	87.5
		07/24/02	6.40	1.10	167.0
First	M07C-09	09/08/05	6.31	0.47	32.0
		03/10/05	6.92	0.00	-2.0
		11/12/04	6.52	0.51	191.0
		07/07/04	6.32	3.10	237.0
		03/03/04	6.85	0.22	274.0
		12/08/03	6.72	0.24	159.0
		09/18/03	6.75	0.47	218.0
		06/30/03	6.60	0.40	198.0
		04/10/03	6.79	0.35	209.0
		12/17/02	6.49	1.09	38.5
		09/04/02	6.78	0.34	14.0

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M07C-09	06/19/02	6.89	1.10	144.0
First	M10B-01	09/07/05	8.08	0.96	-174.0
		03/10/05	7.37	3.96	-133.0
		11/11/04	6.97	1.03	46.0
		07/06/04	7.02	6.00	-20.0
		03/03/04	7.48	3.05	190.0
		12/08/03	7.21	1.24	-51.0
		09/17/03	7.17	0.96	-76.0
		07/02/03	7.19	0.67	-120.0
		04/10/03	7.31	1.70	83.0
		12/16/02	***9.14***	2.40	-125.0
		09/05/02	7.30	3.90	-152.0
First	M13-06	03/29/07	7.11	0.78	5.2
		10/17/06	7.16	0.70	28.3
		05/01/06	6.69	4.08	72.0
		09/08/05	7.26	6.98	-57.0
		11/11/04	7.51	0.45	173.0
		07/07/04	7.11	0.26	111.0
		12/09/03	7.32	0.47	10.0
		07/01/03	7.63	0.47	137.0
		12/17/02	6.33	0.00	-97.0
		06/18/02	7.39	0.67	3.4
First	M13-07	04/03/07	7.19	0.33	-137.2
		03/29/07	6.44	0.27	-110.0
		10/16/06	6.18	0.22	-265.0
		05/01/06	6.97	0.22	-252.0
		09/08/05	***5.12***	5.00	-126.0
		11/11/04	6.32	0.34	-9.0
		07/07/04	***5.95***	0.29	0.0
		12/09/03	6.46	0.31	-54.0
		07/01/03	6.86	0.25	-255.0
		12/17/02	7.31	2.12	67.0
		06/18/02	6.54	0.80	-147.0
First	M13-08	03/28/07	7.28	0.15	-169.2
		10/16/06	6.64	0.25	-364.0
		05/01/06	6.08	1.18	57.0
		09/07/05	6.45	0.70	-73.0
		11/12/04	6.88	6.95	234.0
		07/07/04	6.62	0.27	-11.0
		12/09/03	7.12	0.28	254.0
		07/01/03	7.34	0.16	-180.0
		12/17/02	6.90	0.21	107.0
		06/20/02	7.18	1.40	86.0
First	M13-09	03/29/07	6.40	1.05	11.0
		10/17/06	6.02	0.42	-29.2
		05/02/06	6.23	1.53	-10.0
		09/08/05	***5.19***	4.62	26.0

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M13-09	11/12/04	6.26	0.85	147.0
		07/07/04	***5.89***	0.41	24.0
		12/09/03	6.40	0.30	32.0
		07/01/03	6.47	0.26	-200.0
		12/17/02	6.33	2.45	58.0
		06/19/02	6.48	5.10	144.0
First	M13-P	09/06/05	7.24	1.00	53.0
		03/10/05	6.85	6.46	79.0
		11/12/04	6.37	0.40	282.0
		07/07/04	6.52	0.26	9.0
		03/03/04	6.78	0.37	198.0
		12/22/03	6.65	0.28	47.8
		09/23/03	6.70	0.23	100.0
First	MW-001	09/08/05	6.29	0.00	-165.0
		11/12/04	6.46	0.11	-43.0
		07/06/04	6.32	0.38	-41.0
		12/08/03	6.24	0.52	18.0
		07/01/03	6.67	0.58	-83.0
		12/17/02	***5.67***	2.14	-90.1
		06/18/02	6.87	6.90	-130.0
First	MW410-1	03/29/07	7.59	1.03	-4.8
		10/17/06	7.32	1.67	-151.1
		05/01/06	7.17	2.54	-36.0
		09/07/05	7.37	0.33	-14.0
		03/10/05	7.66	1.08	25.0
		11/11/04	7.12	0.62	172.0
		07/06/04	7.05	***10.40***	195.0
		03/04/04	7.59	1.40	161.0
		12/10/03	7.38	1.11	17.0
		09/18/03	7.44	0.67	161.0
		07/01/03	7.56	0.94	163.0
		04/09/03	7.48	1.40	234.0
		12/16/02	6.92	6.90	-85.1
		09/04/02	7.44	0.58	-62.6
		06/18/02	7.47	1.19	-9.5
First	MW410-2	04/03/07	7.17	5.42	31.1
		10/16/06	6.97	2.63	-44.3
		05/01/06	7.53	6.90	63.0
		09/07/05	7.19	0.44	-97.0
		03/10/05	7.38	0.39	-54.0
		11/11/04	6.92	0.74	109.0
		07/06/04	6.78	2.30	12.0
		03/03/04	6.85	0.68	26.0
		12/10/03	6.89	0.37	-30.0
		09/18/03	6.98	0.60	67.0
		07/01/03	6.95	0.87	44.0
		04/09/03	6.95	0.67	88.0

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW410-2	12/16/02	6.19	***9.31***	-100.8
		09/05/02	6.67	2.30	-84.2
		06/18/02	7.09	2.40	-47.0
First	MW410-3	04/03/07	7.73	***1.57***	-42.4
		10/17/06	7.25	***1.10***	-174.0
		05/02/06	7.51	1.48	45.0
		09/07/05	7.37	0.73	90.0
		03/10/05	7.70	0.92	56.0
		11/12/04	7.51	0.58	165.0
		07/07/04	7.22	0.58	-72.0
		03/05/04	7.55	1.22	65.0
		12/11/03	7.54	1.18	129.0
		09/18/03	7.46	1.60	175.0
		07/01/03	7.51	1.96	185.0
		04/09/03	7.49	1.59	193.0
		12/16/02	7.02	6.16	35.4
		09/05/02	7.39	***9.50***	4.1
		06/18/02	7.49	0.29	223.2
First	MW410-4	03/29/07	8.04	3.57	21.0
		10/17/06	7.79	3.56	10.9
		05/02/06	8.08	4.87	47.0
		09/07/05	7.82	3.13	90.0
		03/14/05	8.40	1.31	-4.0
		11/11/04	8.22	2.52	160.0
		07/07/04	7.00	4.52	52.0
		03/04/04	8.19	2.91	-133.0
		12/10/03	8.43	3.53	314.0
		09/19/03	8.28	4.02	197.0
		07/01/03	8.24	6.32	189.0
		04/09/03	8.18	1.46	122.0
		12/16/02	7.59	6.92	-2.8
		09/04/02	7.96	0.75	46.9
		06/18/02	8.27	3.60	43.0
First	MW530-2	09/08/05	7.22	0.76	-9.0
		11/11/04	7.23	0.79	61.0
		07/07/04	7.47	0.50	-117.0
		12/10/03	7.36	0.46	-65.0
		07/01/03	7.80	0.52	170.0
		12/16/02	7.26	2.76	25.6
		06/18/02	7.82	1.60	197.0
First	MW530-3	09/07/05	6.79	4.56	-43.0
		11/12/04	7.22	0.24	206.0
		07/06/04	7.27	3.98	-31.0
		12/11/03	7.71	0.92	370.0
		07/02/03	7.70	0.23	-298.0
		12/16/02	6.89	4.21	-106.8
		06/18/02	7.57	0.38	-55.8

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW547-3	09/08/05	6.63	2.10	-118.0
		03/10/05	7.14	8.51	-224.0
		11/12/04	6.75	0.30	-51.0
		07/07/04	6.55	3.50	-80.0
		03/04/04	7.01	0.24	-130.0
		12/10/03	7.09	0.20	-89.0
		09/18/03	6.89	0.34	-111.0
		07/03/03	7.06	0.20	-124.0
		04/10/03	7.27	0.22	-130.0
		12/17/02	***9.24***	0.00	-184.0
		09/05/02	6.94	4.00	-172.0
		06/20/02	7.03	0.60	-164.0
First	MWD13-3	04/02/07	7.66	0.38	-29.3
		10/16/06	7.98	0.82	-6.9
		05/01/06	7.79	1.70	-172.0
		09/08/05	8.35	0.00	-208.0
		11/12/04	7.49	0.36	59.0
		07/07/04	8.02	0.21	-19.0
		12/11/03	8.03	0.28	194.0
		07/01/03	***8.58***	0.20	-144.0
		12/18/02	7.09	4.11	58.4
		06/19/02	***8.55***	1.30	-193.0
First	MWD13-4	04/03/07	***9.51***	1.53	-35.9
		10/16/06	***11.27***	0.73	-165.2
		05/01/06	***9.15***	1.69	-199.0
		09/08/05	***11.04***	0.02	-268.0
		03/10/05	***11.26***	0.37	-310.0
		11/12/04	***11.36***	0.86	98.0
		07/08/04	***10.66***	0.42	-63.0
		03/03/04	***10.89***	0.35	169.0
		12/11/03	***11.13***	0.50	56.0
		09/22/03	***11.18***	0.14	105.0
		07/01/03	***11.51***	0.18	-156.0
		04/10/03	***11.30***	1.19	160.0
		12/16/02	***12.20***	0.00	-27.5
		09/05/02	***11.05***	3.70	-293.0
		06/19/02	***11.28***	1.70	-240.0
First	MWOR-4	03/28/07	***6.43***	1.75	42.3
		10/17/06	***6.17***	0.45	47.2
		05/02/06	7.12	3.40	74.0
		09/08/05	***5.39***	4.67	99.0
		11/12/04	6.21	0.28	184.0
		07/07/04	***5.90***	1.32	8.0
		12/11/03	6.37	0.43	115.0
		07/02/03	6.27	1.39	177.0
		12/17/02	6.74	0.00	167.0
		06/19/02	6.53	3.90	178.0

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D07C-01	03/28/07	7.15	1.65	5.3
		04/27/06	7.01	4.67	89.0
		09/08/05	6.66	0.05	27.0
		11/12/04	7.09	0.14	173.0
		07/06/04	7.13	0.32	-123.0
		12/09/03	7.18	0.30	229.0
		06/30/03	6.89	0.65	205.0
		12/17/02	6.72	2.33	76.0
		07/11/02	7.06	***19.90***	116.0
Second	D09-01	03/28/07	8.07	0.62	383.8
		04/27/06	6.37	0.83	41.0
		09/07/05	6.54	0.08	83.0
		03/10/05	6.74	0.22	58.0
		11/11/04	6.60	0.43	206.0
		07/06/04	6.53	3.10	179.0
		03/03/04	6.47	0.25	233.0
		12/04/03	6.55	0.29	136.0
		09/18/03	6.54	0.54	1.6
		07/02/03	6.76	0.24	-271.0
		04/10/03	6.66	0.51	180.0
		12/16/02	8.18	0.00	-67.0
		09/05/02	6.38	NM	-56.0
		06/28/02	6.57	0.26	76.4
Second	D10B-02	03/28/07	8.38	7.40	20.6
		04/27/06	8.11	0.16	-82.0
		09/07/05	7.52	5.02	-180.0
		11/15/04	7.87	0.10	201.0
		07/06/04	8.26	1.20	107.0
		12/04/03	8.07	0.11	-24.0
		07/01/03	***8.54***	0.09	-197.0
		12/16/02	***10.18***	0.00	-190.0
		06/28/02	8.10	0.82	164.6
Second	D13-01	03/28/07	7.35	1.20	-3.5
		04/27/06	7.22	0.21	117.0
		09/08/05	6.03	5.35	42.0
		11/12/04	7.31	0.81	2.3
		07/07/04	7.04	0.73	-70.0
		12/04/03	7.36	0.19	-18.0
		06/30/03	7.50	0.19	-195.0
		12/17/02	7.57	0.00	113.0
		07/08/02	7.35	***10.25***	278.5
Second	D19-01	03/28/07	7.19	0.49	-177.6
		05/01/06	7.04	0.42	-5.0
		09/08/05	6.96	0.00	95.0
		11/12/04	6.97	0.24	284.0
		07/06/04	6.94	0.09	46.0
		12/08/03	7.02	0.14	112.0

Table 4.1-5
Groundwater Sampling Field Parameters at Operable Unit 2A - IR Site 9 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D19-01	06/30/03	7.20	0.16	51.0
		12/11/02	6.62	4.71	21.4
		07/12/02	6.96	0.30	258.0

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07C-06	2005 02 (Summer)	< 0.0050	< 0.0050	4.9	< 0.050	< 0.050	18.0	< 0.50	800	800	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.34	< 0.050	< 0.050	3.9	4.1	100	100	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	5.2	< 0.050	< 0.050	20.0	< 0.50	960	960	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	0.0010 J	< 0.0030	2.2	< 1.0	< 1.0	17.9	< 5.0	960	960	< 5.0	-	< 1.0
		2003 02 (Summer)	0.0013 J	< 0.0030	1.8	< 0.10 UJ	< 0.10 UJ	27.0	0.36 J	1000	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	3.0	< 0.050	< 0.050	24.0	< 0.50	920	920	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.64	0.43	0.34	19.0	0.97	810	810	< 1.0	< 1.0	< 0.040
	M07C-08	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.31	< 0.050	4.3	11.0	110	110	< 5.0	< 5.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.070	< 0.050	3.9	4.6	170	170	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0060	< 0.050	< 0.050	6.0	7.5	200	200	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0040 J	1.3	< 0.050	9.8	16.0	200	200	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.050	< 0.050	7.3	8.6	190	190	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0014 J	1.6	< 1.0	9.2	14.9	177	177	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0008 J	0.29	< 0.10	8.0	7.6	128	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	9.3	< 0.050	16.0	18.0	69.0	69.0	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.030 J	< 0.050	9.7	5.5	330	330	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07C-09	2005 02 (Summer)	< 0.0050	< 0.0050	0.058	< 0.050	< 0.050	14.0	15.0	400	400	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0060	0.15	< 0.050	12.0	10.0	320	320	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.067	< 0.050	< 0.050	13.0	13.0	370	370	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0069	< 1.0	< 1.0	9.5	10.8	342	342	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.051	0.16	< 0.10	16.0	24.0	390	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.012	< 0.050	< 0.050	9.2	7.9	350	350	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.033	0.12	< 0.050	11.0	13.0	390	390	< 1.0	< 1.0	< 0.040
	M10B-01	2005 02 (Summer)	< 0.0050	< 0.0050	0.039	< 0.050	< 0.050	340	59.0	390	390	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.064	0.16	< 0.050	420	89.0	400	400	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.051	0.13	< 0.050	510	110	440	440	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.044	< 1.0	< 1.0	518	133	485	485	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.042	< 1.0	< 1.0	824	231	500	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.020	0.14	< 0.050	580	250	590	590	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.034	0.64	< 0.050	680	370	670	670	< 1.0	< 1.0	< 0.040
	M13-06	2007 01 (Spring)	< 0.0050	< 0.0050	0.16	0.40	< 0.050	23.0	32.0	350	350	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0080	0.010 J	< 0.050	5.9	13.0	270	220	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M13-06	2005 02 (Summer)	< 0.0050	< 0.0050	0.060	< 0.050	< 0.050	10.0	16.0	270	270	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.12	0.050	< 0.050	19.0	15.0	260	260	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.050	< 0.050	< 0.050	12.0	24.0	270	270	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.13	< 1.0	< 1.0	20.6 J	10.5	279	279	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0088	0.12	< 0.10	13.5	26.3	266	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.011	1.2	< 0.050	17.0	36.0	190	190	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.018	< 0.050	< 0.050	16.0	39.0	280	280	< 1.0	< 1.0	< 0.040
	M13-07	2007 01 (Spring)	< 0.050	< 0.050	16.0	< 0.050	< 0.050	68.0	< 0.50	400	400	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.050	< 0.050	13.0	< 0.050	< 0.050	7.9	0.47 J	190	190	< 1.0	< 1.0	0.15
		2005 02 (Summer)	< 0.0050	< 0.0050	4.9	< 0.050	< 0.050	110	< 0.50	390	390	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	14.0	< 0.050	< 0.050	130	< 0.50	430	430	< 1.0	< 1.0	0.090
		2004 02 (Summer)	< 0.010	< 0.010	17.0	< 0.050	< 0.050	74.0	< 0.50	370	370	< 1.0	< 1.0	0.18
		2003 04 (Winter)	< 0.0030	< 0.0030	5.8	< 1.0	< 1.0	236	0.63	532	532	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	7.1	< 0.10	< 0.10	25.1	< 0.50	236	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	12.0	< 0.050	< 0.050	170	0.38 J	460	460	< 1.0	< 1.0	0.13
		2002 02 (Summer)	< 0.010	< 0.010	12.0	< 0.050	< 0.050	130	< 0.33 J	420	420	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M13-08	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	6.4	0.090	23.0	53.0	200	200	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	6.6	0.070	21.0	50.0	190	190	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0030 J	7.3	0.050	20.0	60.0	230	230	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	7.8	0.040 J	19.0	63.0	200	200	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	7.4	0.020 J	19.0	64.0	240	240	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	< 0.0030	9.8 J	< 1.0	17.1	68.3	201	201	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	7.6	< 0.10	19.4	66.3	199	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	8.1	< 0.050	18.0	77.0	220	220	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	7.8	< 0.030 J	18.0	77.0	230	230	< 1.0	< 1.0	< 0.040
	M13-09	2007 01 (Spring)	< 0.0050	< 0.0050	1.2	5.6	0.010 J	18.0	120	230	230	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.31	6.2	< 0.050	13.0	94.0	180	180	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.52	1.2	< 0.050	19.0	87.0	240	240	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.20	0.47	< 0.050	26.0	69.0	270	270	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.12	2.3	< 0.050	25.0	72.0	260	260	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.31	< 1.0	< 1.0	27.3 J	51.1	313	313	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.044	3.0	< 0.10	27.2	103	211	-	-	-	< 1.0

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M13-09	2002 04 (Winter)	< 0.010	< 0.010	0.072	0.50	< 0.050	28.0	80.0	230	230	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.030	3.7	< 0.030 J	31.0	100	210	210	< 1.0	< 1.0	< 0.040
	MW-001	2005 02 (Summer)	< 0.0050	< 0.0050	12.0	< 0.050	< 0.050	23.0	0.89	360	360	< 1.0	< 1.0	0.060
		2004 04 (Winter)	< 0.0050	< 0.0050	12.0	< 0.050	< 0.050	17.0	3.7	360	360	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	12.0	< 0.050	< 0.050	16.0	6.6	340	340	< 1.0	< 1.0	0.070
		2003 04 (Winter)	< 0.0030	< 0.0030	3.8	< 1.0	< 1.0	23.8	127	212	212	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	4.8	< 0.20	< 0.20	22.3	41.6	303	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	10.0	< 0.050	< 0.050	19.0	400	140	140	< 1.0	< 1.0	0.13
		2002 02 (Summer)	< 0.010	< 0.010	4.9	< 0.050	< 0.050	24.0	5.8	290	290	< 1.0	< 1.0	< 0.040
	MW410-1	2007 01 (Spring)	< 0.0050	< 0.0050	0.0090	0.32	< 0.050	190	43.0	290	290	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.71	0.40	< 0.050	110	19.0	230	230	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.026	0.44	< 0.050	160	28.0	260	260	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.014	0.42	< 0.050	260	33.0	270	270	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.019	0.88	< 0.050	230	31.0	290	290	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.044	0.74	< 0.10	102	32.5	284	284	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.011	0.74	< 5.0	269	37.4	268	-	-	-	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-1	2002 04 (Winter)	< 0.010	< 0.010	0.095	0.21	< 0.050	300	27.0	320	320	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.016	0.60	< 0.050	250	28.0	240	240	< 1.0	< 1.0	< 0.040
	MW410-2	2007 01 (Spring)	< 0.0050	< 0.0050	0.13	3.8	< 0.050	18.0	55.0	430	430	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.073	0.44	< 0.050	6.7	23.0	440	440	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.24	0.58	< 0.050	17.0	30.0	350	350	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.69	0.11	< 0.050	21.0	31.0	400	400	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.62	0.20	< 0.050	19.0	30.0	380	380	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	0.0029 J	1.0	< 0.10	< 0.10	33.1	20.9	539	539	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	0.0066	1.5	0.49	< 0.10	40.0	15.3	491	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	0.032	5.1	0.33	< 0.050	87.0	5.6	710	710	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	0.017	4.4	1.5	< 0.050	62.0	20.0	640	640	< 1.0	< 1.0	< 0.040
	MW410-3	2007 01 (Spring)	< 0.0050	< 0.0050	0.0030 J	0.61	0.010 J	10.0	28.0	280	280	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0030 J	1.4	0.050	14.0	48.0	210	210	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0030 J	1.1	0.010 J	13.0	39.0	190	190	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0030 J	0.83	0.030 J	13.0	37.0	190	190	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	0.43	< 0.050	17.0	39.0	100	100	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-3	2003 04 (Winter)	< 0.0030	< 0.0030	0.0096	2.1	< 0.10	20.9	81.6	208	208	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0020 J	1.7	< 0.10	30.2	38.3	204	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.84	< 0.050	9.8	27.0	270	270	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	0.69	< 0.050	11.0	34.0	260	260	< 1.0	< 1.0	< 0.040
	MW410-4	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	1.5	< 0.050	42.0	23.0	170	170	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.95	< 0.050	13.0	18.0	160	160	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0040 J	1.2	< 0.050	11.0	16.0	160	160	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.13	0.98	< 0.050	8.3	15.0	120	120	4.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.019	0.84	< 0.050	6.3	8.8	110	110	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0081	1.7	< 0.10	16.4	18.1	130	130	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0014 J	1.4	< 0.10	16.7	13.3	112	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	1.6	< 0.050	35.0	30.0	250	250	< 1.0	< 1.0	0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	2.2	< 0.050	38.0	32.0	170	170	< 1.0	< 1.0	< 0.040
	MW530-2	2005 02 (Summer)	< 0.0050	< 0.0050	0.010	1.7	0.030 J	130	120	470	470	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.043	< 0.25	< 0.25	2300	210	980	980	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.028	0.070	< 0.10	730	110	860	860	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW530-2	2003 04 (Winter)	< 0.0030	< 0.0030	0.028	< 0.10	< 1.0	1330	117	1010	1010	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.028	< 0.10	< 10.0 UJ	287	71.1	546	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.010 J	< 0.050	100	61.0	470	470	< 1.0	< 1.0	0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	0.61	< 0.050	86.0	66.0	760	760	< 1.0	< 1.0	< 0.040
	MW530-3	2005 02 (Summer)	< 0.0050	< 0.0050	0.049	< 0.050	< 0.050	33.0	49.0	250	250	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.039	< 0.050	< 0.050	78.0	44.0	190	190	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.017	0.12	< 0.050	130	78.0	250	250	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0035	-	-	11.5	10.1	28.7	28.7	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.075	< 0.50	< 0.50	12.4	10.0	139	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.50	< 0.050	< 0.050	18.0	11.0	290	290	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.26	< 0.050	< 0.050	13.0	11.0	200	200	< 1.0	< 1.0	< 0.040
	MW547-3	2005 02 (Summer)	< 0.0050	< 0.0050	0.29	0.19	< 0.050	18.0	83.0	720	720	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	0.010	< 0.0050	5.7	0.020 J	< 0.050	17.0	19.0	920	920	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	2.5	< 0.050	< 0.050	11.0	1.4	570	570	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	0.010	< 0.0030	2.6	0.21	< 0.10	13.0	< 0.50	1120	1120	< 5.0	-	< 1.0
		2003 02 (Summer)	0.0096	< 0.0030	4.6	< 0.10 UJ	< 0.10 UJ	15.5	< 0.50	1030	-	-	-	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW547-3	2002 04 (Winter)	0.016	< 0.010	11.0	< 0.050	< 0.050	14.0	0.14 J	1000	1000	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	0.022	< 0.010	15.0	< 0.050	< 0.050	16.0	< 0.50	1000	1000	< 1.0	< 1.0	< 0.040
	MWD13-3	2007 01 (Spring)	< 0.0050	< 0.0050	0.95	0.070	< 0.050	21.0	26.0	120	120	< 5.0	< 5.0	0.16
		2006 01 (Spring)	< 0.0050	< 0.0050	0.74	0.040 J	< 0.050	21.0	28.0	130	130	< 1.0	< 1.0	0.20
		2005 02 (Summer)	< 0.0050	< 0.0050	0.63	< 0.050	< 0.050	43.0	56.0	84.0	84.0	< 1.0	< 1.0	0.35 J
		2004 04 (Winter)	< 0.0050	< 0.0050	1.1	< 0.050	< 0.050	30.0	41.0	100	100	< 1.0	< 1.0	0.29
		2004 02 (Summer)	< 0.010	< 0.010	0.95	0.020 J	< 0.050	34.0	44.0	120	120	< 1.0	< 1.0	0.40
		2003 04 (Winter)	< 0.0030	< 0.0030	0.48	0.090 J	< 0.10	31.5	37.8	116	116	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.47	< 0.10	< 0.10	53.2	56.7	99.3	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.30	0.13	< 0.050	20.0	33.0	120	120	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.37	< 0.050	< 0.050	28.0	45.0	99.0	99.0	< 1.0	< 1.0	< 0.040
	MWD13-4	2007 01 (Spring)	< 0.0050	< 0.0050	0.010	0.60	0.060	62.0	110	130	< 4.0	110	24.0	0.19
		2006 01 (Spring)	< 0.0050	< 0.0050	0.010	0.68	0.040 J	58.0	100	110	< 1.0	64.0	2.4	0.29
		2005 02 (Summer)	< 0.0050	< 0.0050	0.030	0.080	0.080	86.0	150	140	< 1.0	16.0	120	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.037	0.070	0.020 J	92.0	150	180	< 1.0	88.0	96.0	1.2
		2004 02 (Summer)	< 0.010	< 0.010	0.028	0.080	0.050	78.0	130	170	< 1.0	48.0	130	0.84

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MWD13-4	2003 04 (Winter)	< 0.0030	< 0.0030	0.016	0.21	< 0.10	59.6	151	161	< 5.0	62.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.027	0.15	< 0.10	97.7	135	161	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.034	< 0.050	< 0.050	93.0	160	220	220	< 1.0	< 1.0	1.4
		2002 02 (Summer)	< 0.010	< 0.010	0.023	0.070	0.060	91.0	160	160	< 1.0	79.0	83.0	< 0.040
	MWOR-4	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	3.1	< 0.050	8.4	14.0	92.0	92.0	< 4.0	< 4.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	41.0	0.76	380	140	270	270	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	2.3	< 0.050	8.1	11.0	65.0	65.0	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0050	0.34	< 0.050	11.0	33.0	140	140	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	4.0	< 0.050	9.6	14.0	86.0	86.0	< 1.0	< 1.0	0.060
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0033	0.58	< 0.10	11.5	38.9	119	119	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	4.8	< 0.10	19.8	14.4	77.0	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.33	< 0.050	13.0	43.0	140	140	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	1.4	< 0.050	13.0	36.0	120	120	< 1.0	< 1.0	< 0.040
SWBZ	D07C-01	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	3.0	< 0.050	180	130	380	380	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	3.2	< 0.050	220	130	360	360	< 1.0	< 1.0	< 0.040 UJ
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	3.1	< 0.050	200	120	360	360	< 1.0	< 1.0	< 0.040

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D07C-01	2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	3.3	< 0.050	240	130	360	360	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	3.4	< 0.050	210	120	350	350	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0007 J	3.8	< 1.0	279	124	378	378	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	3.5	< 0.10	216	117	345	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	3.8	< 0.050	240	130	350	350	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	< 0.010 UJ	3.8	< 0.030 J	230	130	360	360	< 1.0	< 1.0	< 0.040
	D09-01	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	< 1.0	< 2.5	13000	1900	290	290	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.020	< 1.0	< 2.5	13000	2000	260	260	< 1.0	< 1.0	< 0.040 UJ
		2005 02 (Summer)	< 0.0050	< 0.0050	0.027	< 1.0	< 2.5	13000	2000	250	250	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050 UJ	0.027	< 1.3	< 2.5	15000	2100	200	200	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.026	< 1.3	< 2.5	14000	2000	240	240	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.017	< 1.0	< 10.0	11800	1620	221	221	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.016	< 1.0	< 20.0 UJ	15600	1950	229	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.024	< 0.50	< 0.50	15000	2100	240	240	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.025	< 0.50	< 0.50	15000	2000	210	210	< 1.0	< 1.0	0.060
	D10B-02	2007 01 (Spring)	< 0.0050	< 0.0050	0.011	1.8	< 0.050	22.0	5.6	63.0	63.0	< 1.0	< 1.0	< 0.040

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D10B-02	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.11	< 0.25	1600	290	120	120	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0030 J	< 0.15	< 0.25	2100	380	110	110	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0030 J	< 0.25	< 0.25	2300	400	140	140	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	2300	390	140	140	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0024 J	< 1.0	< 1.0	2190	451	122	122	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0021 J	< 1.0	< 10.0 UJ	2470	414	91.8	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	2500	500	190	190	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	2500	420	130	130	< 1.0	< 1.0	< 0.040
	D13-01	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	42.0	0.81	390	150	290	290	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	42.0	0.67	390	140	270	270	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	44.0	0.76	420	150	290	290	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	47.0	0.88	430	150	270	270	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	45.0	0.73	410	140	280	280	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	< 0.0030	42.9	0.92 J	415	148	272	272	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	44.1	< 0.20	430	149	263	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	50.0	0.46	410	150	260	260	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2A - IR Site 9 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D13-01	2002 02 (Summer)	< 0.010	< 0.010	< 0.010	50.0	0.66	450	150	280	280	< 1.0	< 1.0	< 0.040
	D19-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.0060	0.96	< 1.0	6500	770	200	200	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0030 J	0.47 J	< 1.0	5500	710	170	170	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0070	0.48 J	< 1.0	6200	710	220	220	< 1.0	< 1.0	< 0.040 UJ
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0090	0.42 J	< 1.0	7300	820	160	160	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	0.49 J	< 1.3	6800	770	200	200	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0066	< 1.0	< 50.0	7910	866	192	192	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0055	1.9	< 1.0	7510	760	183	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	7400	820	180	180	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.26 J	< 0.50	7200	800	160	160	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Benzene (UG/L)	2	12	0.20 J	MWD13-4	16 Oct 2006	2800	MW547-3	2002 02 (Summer)
TPH-Diesel (UG/L)	8	12	330	M13-07	16 Oct 2006	190000	530MJ-MW1	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	3	12	15.0	MWD13-4	03 Apr 2007	24.0	MWD13-4	2003 04 (Winter)
TPH-Jet Fuel (UG/L)	1	12	720	M13-07	16 Oct 2006	74000	530MJ-MW1	2005 01 (Spring)
Toluene (UG/L)	2	12	0.30 J	M13-07	29 Mar 2007	1.3 J	MW547-3	2003 01 (Spring)
Trichloroethene (UG/L)	6	12	2.5	MWD13-4	16 Oct 2006	4.2	MWD13-4	2005 02 (Summer)
1,1-Dichloroethene (UG/L)	1	12	0.50	MWD13-4	16 Oct 2006	3.9 J	MW547-3	2003 04 (Winter)
Ethylbenzene (UG/L)	1	12	0.060 J	MWD13-4	16 Oct 2006	38.0	MW547-3	2002 02 (Summer)
TPH-Motor Oil (UG/L)	3	12	240 J	MWOR-4	17 Oct 2006	5500 J	530MJ-MW1	2005 01 (Spring)
cis-1,2-Dichloroethene (UG/L)	6	12	3.7	MWD13-4	16 Oct 2006	20.0	MW410-2	2003 03 (Fall)
TPH-Gasoline (UG/L)	1	12	540 J	M13-07	16 Oct 2006	7900	MW547-3	2002 02 (Summer)
Bromoform (UG/L)	1	12	0.10 J	MW410-2	16 Oct 2006	0.20 J	MW410-4	2003 01 (Spring)
trans-1,2-Dichloroethene (UG/L)	1	12	0.080 J	MWD13-3	16 Oct 2006	0.90	MW410-2	2002 04 (Winter)
1,1-Dichloroethane (UG/L)	4	12	5.1	MWD13-4	16 Oct 2006	9.8	MWD13-4	2002 03 (Fall)
Naphthalene (UG/L)	2	12	14.0 J	M13-07	29 Mar 2007	460	MW547-3	2003 04 (Winter)
Carbon Disulfide (UG/L)	2	12	0.30 J	MWD13-3	02 Apr 2007	4.4	MWD13-3	2002 02 (Summer)
Methyl tert-butyl ether (MTBE) (UG/L)	3	12	0.40 J	M13-08	28 Mar 2007	14.0	MW410-2	2002 03 (Fall)
1,1,1-Trichloroethane (UG/L)	2	12	3.2	MWD13-4	03 Apr 2007	27.0 J	MW547-3	2003 04 (Winter)
Chlorobenzene (UG/L)	1	12	0.20 J	MW410-2	16 Oct 2006	3.5	MW410-1	2005 01 (Spring)
Vinyl Chloride (UG/L)	2	12	1.7	MW410-2	16 Oct 2006	23.0	MW410-2	2003 03 (Fall)
1,3-Dichlorobenzene (UG/L)	2	12	0.20 J	MWD13-3	16 Oct 2006	0.20 J	M13-06	2006 01 (Spring)
Chloroform (UG/L)	1	12	0.090 J	MW410-2	16 Oct 2006	19.0	MW547-3	2003 01 (Spring)
Chloromethane (UG/L)	1	12	0.90 J	MW410-2	16 Oct 2006	0.20 J	M07C-08	2002 04 (Winter)
4-Chlorotoluene (UG/L)	1	12	0.090 J	MWD13-4	16 Oct 2006	--	NA	NA
1,3-Dichloropropane (UG/L)	2	12	0.20 J	MW410-2	16 Oct 2006	0.90	MW410-2	2002 04 (Winter)
Isopropylbenzene (UG/L)	1	12	0.30 J	M13-07	29 Mar 2007	140	MW547-3	2004 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Methylene Chloride (UG/L)	1	12	0.10 J	M07C-08	28 Mar 2007	0.70 J	530MJ-MW1	2005 01 (Spring)
n-Butylbenzene (UG/L)	2	12	1.5	M13-07	29 Mar 2007	51.0 J	MW547-3	2003 02 (Summer)
n-Propylbenzene (UG/L)	1	12	0.10 J	MWD13-4	16 Oct 2006	280	MW547-3	2004 01 (Spring)
sec-Butylbenzene (UG/L)	1	12	0.30 J	M13-07	29 Mar 2007	26.0 J	MW547-3	2003 03 (Fall)
Tert-butylbenzene (UG/L)	2	12	0.40 J	M13-07	29 Mar 2007	0.90	MW410-2	2002 04 (Winter)
1,2,4-Trichlorobenzene (UG/L)	1	12	0.20 J	MWD13-4	16 Oct 2006	--	NA	NA
1,2,3-Trichloropropane (UG/L)	2	12	0.70	MW410-3	17 Oct 2006	1.0	MW410-3	2004 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	1	12	0.10 J	MWD13-4	16 Oct 2006	31.0	MW547-3	2005 01 (Spring)
1,3,5-Trimethylbenzene (UG/L)	1	12	0.090 J	MWD13-4	16 Oct 2006	14.0	MW547-3	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Trichloroethene (UG/L)	2	5	0.30 J	D07C-01	28 Mar 2007	0.60	D19-01	2005 02 (Summer)
TPH-Motor Oil (UG/L)	2	5	130 J	D19-01	28 Mar 2007	52000	D09-01	2005 01 (Spring)
cis-1,2-Dichloroethene (UG/L)	1	5	0.090 J	D07C-01	28 Mar 2007	0.30 J	D19-01	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	8	12	16.0	M13-07	29 Mar 2007	17.0	M13-07	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	2	5	0.011	D10B-02	28 Mar 2007	0.027	D09-01	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	7	12	2.5	M07C-08	28 Mar 2007	3.6	M07C-08	2004 02 (Summer)
Arsenic (UG/L)	9	12	16.0	M13-07	03 Apr 2007	112	M07C-06	2003 02 (Summer)
Beryllium (UG/L)	3	12	0.70 J	MWD13-4	03 Apr 2007	0.25 J	MWOR-4	2006 01 (Spring)
Cadmium (UG/L)	3	12	0.77 J	MWD13-4	03 Apr 2007	2.3 J	M13-09	2003 04 (Winter)
Chromium (UG/L)	6	12	8.3 J	MW410-4	29 Mar 2007	15.0	MW410-1	2006 01 (Spring)
Copper (UG/L)	10	12	16.0	M07C-08	28 Mar 2007	38.0	M07C-08	2002 04 (Winter)
Mercury (UG/L)	1	12	0.035 J	M07C-08	28 Mar 2007	1.7	M10B-01	2002 02 (Summer)
Nickel (UG/L)	7	12	14.0 J	M07C-08	28 Mar 2007	32.0	M07C-08	2004 02 (Summer)
Selenium (UG/L)	5	12	1.2 J	MWD13-4	03 Apr 2007	6.9	MW530-2	2005 02 (Summer)
Silver (UG/L)	4	12	0.85 J	MWD13-4	03 Apr 2007	5.1 J	M13-08	2003 04 (Winter)
Thallium (UG/L)	2	12	0.63 J	MWD13-4	03 Apr 2007	3.0 J	MW410-3	2006 01 (Spring)
Zinc (UG/L)	5	12	22.0	M13-07	03 Apr 2007	120	MWD13-3	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	5	5	3.0	D10B-02	28 Mar 2007	4.8 J	D07C-01	2004 04 (Winter)
Arsenic (UG/L)	3	5	2.0 J	D09-01	28 Mar 2007	15.0	D09-01	2004 04 (Winter)
Beryllium (UG/L)	1	5	0.49 J	D07C-01	28 Mar 2007	0.48 J	D19-01	2006 01 (Spring)
Cadmium (UG/L)	3	5	3.5 J	D09-01	28 Mar 2007	3.7 J	D09-01	2006 01 (Spring)
Copper (UG/L)	5	5	4.7 J	D10B-02	28 Mar 2007	8.5 J	D07C-01	2004 04 (Winter)
Mercury (UG/L)	1	5	0.097 J	D09-01	28 Mar 2007	0.052 J	D07C-01	2004 02 (Summer)
Nickel (UG/L)	4	5	60.0	D19-01	28 Mar 2007	120 J	D09-01	2004 02 (Summer)
Selenium (UG/L)	3	5	1.1 J	D09-01	28 Mar 2007	63.0	D09-01	2005 02 (Summer)
Silver (UG/L)	2	5	0.31 J	D07C-01	28 Mar 2007	10.0	D09-01	2006 01 (Spring)
Zinc (UG/L)	2	5	23.0	D10B-02	28 Mar 2007	120	D09-01	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	12	12	430	MW410-2	03 Apr 2007	1120	MW547-3	2003 04 (Winter)
Sulfide (MG/L)	2	12	0.19	MWD13-4	03 Apr 2007	1.4	MWD13-4	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	11	12	430	MW410-2	03 Apr 2007	1120	MW547-3	2003 04 (Winter)
Alkalinity, carbonate (MG/L)	1	12	110	MWD13-4	03 Apr 2007	88.0	MWD13-4	2004 04 (Winter)
Alkalinity, hydroxide (MG/L)	1	12	24.0	MWD13-4	03 Apr 2007	130	MWD13-4	2004 02 (Summer)
Nitrate (MG/L)	11	12	6.4	M13-08	28 Mar 2007	41.0	MWOR-4	2006 01 (Spring)
Nitrite (MG/L)	4	12	0.090	M13-08	28 Mar 2007	0.76	MWOR-4	2006 01 (Spring)
Chloride (MG/L)	12	12	190	MW410-1	29 Mar 2007	2300	MW530-2	2004 04 (Winter)
Sulfate (as SO4) (MG/L)	11	12	120	M13-09	29 Mar 2007	400	MW-001	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 4.1-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2A - IR Site 9 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2A - IR Site 9 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	5	5	380	D07C-01	28 Mar 2007	378	D07C-01	2003 04 (Winter)
Alkalinity, bicarbonate (MG/L)	5	5	380	D07C-01	28 Mar 2007	378	D07C-01	2003 04 (Winter)
Nitrate (MG/L)	4	5	42.0	D13-01	28 Mar 2007	50.0	D13-01	2002 04 (Winter)
Nitrite (MG/L)	1	5	0.81	D13-01	28 Mar 2007	0.92 J	D13-01	2003 04 (Winter)
Chloride (MG/L)	5	5	13000	D09-01	28 Mar 2007	15600	D09-01	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	5	5	1900	D09-01	28 Mar 2007	2100	D09-01	2004 04 (Winter)

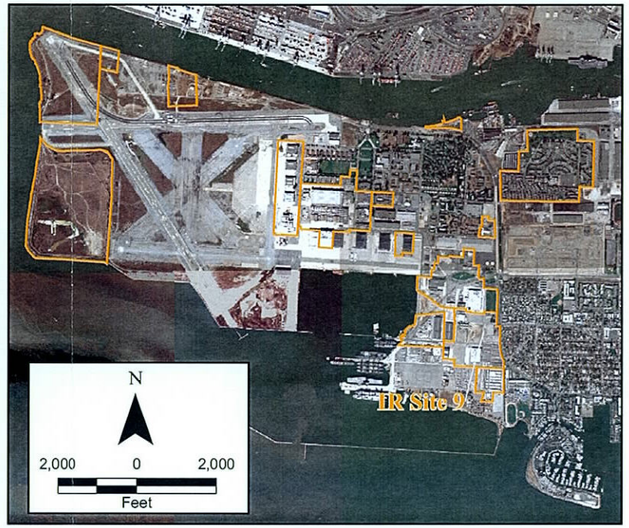
Result exceeds Maximum Contaminant Level (MCL)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

2002 Projects\02-...25.11\Graphics\Alameda Point GIS\2007 Maps\Site 9 Well Locs.mxd

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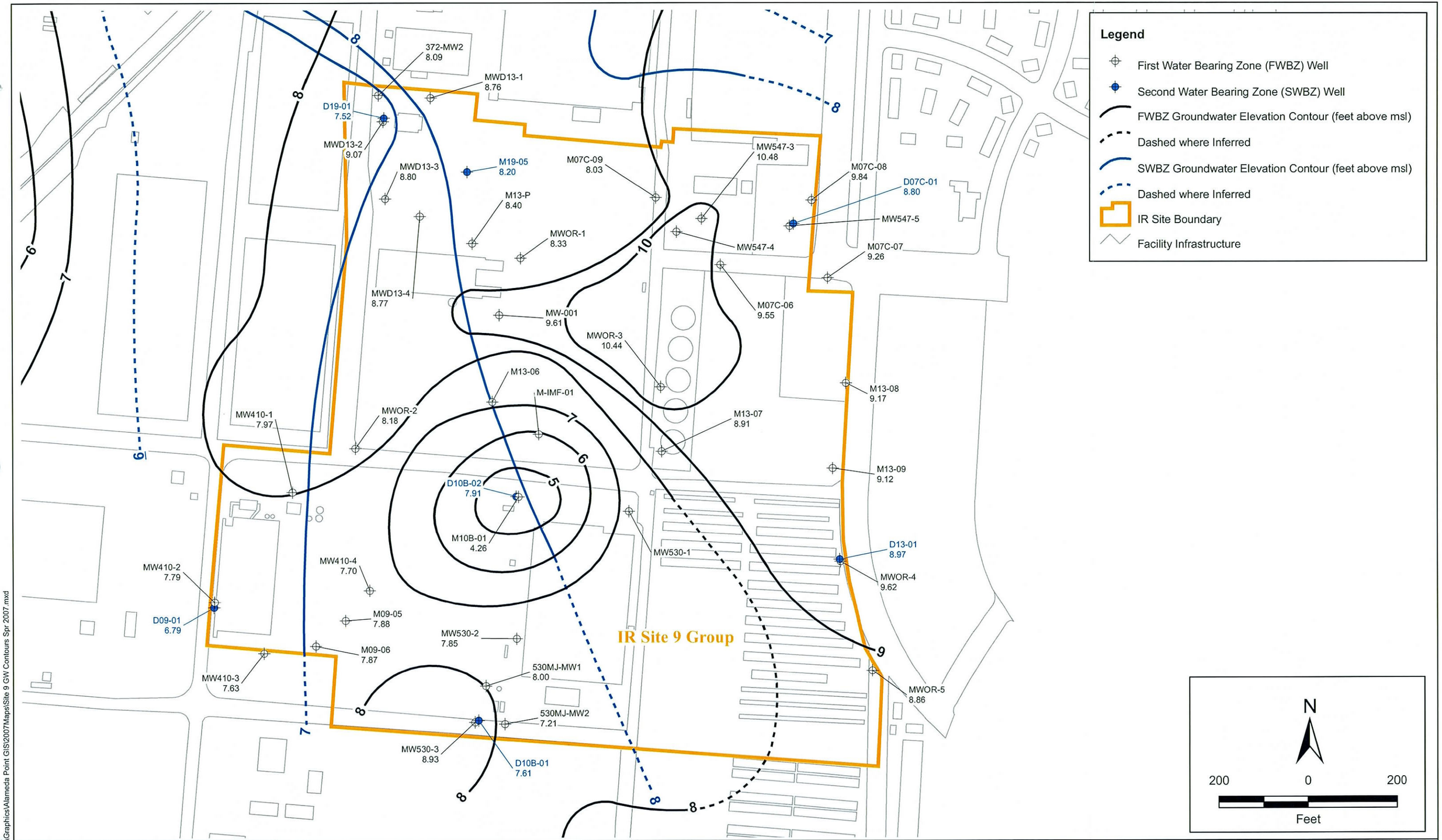
FIGURE 4.1-1
OPERABLE UNIT 2A - IR SITE 9 GROUP
SITE AND WELL LOCATION MAP



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007Maps\Site 9 GW Contours Spr 2007.mxd

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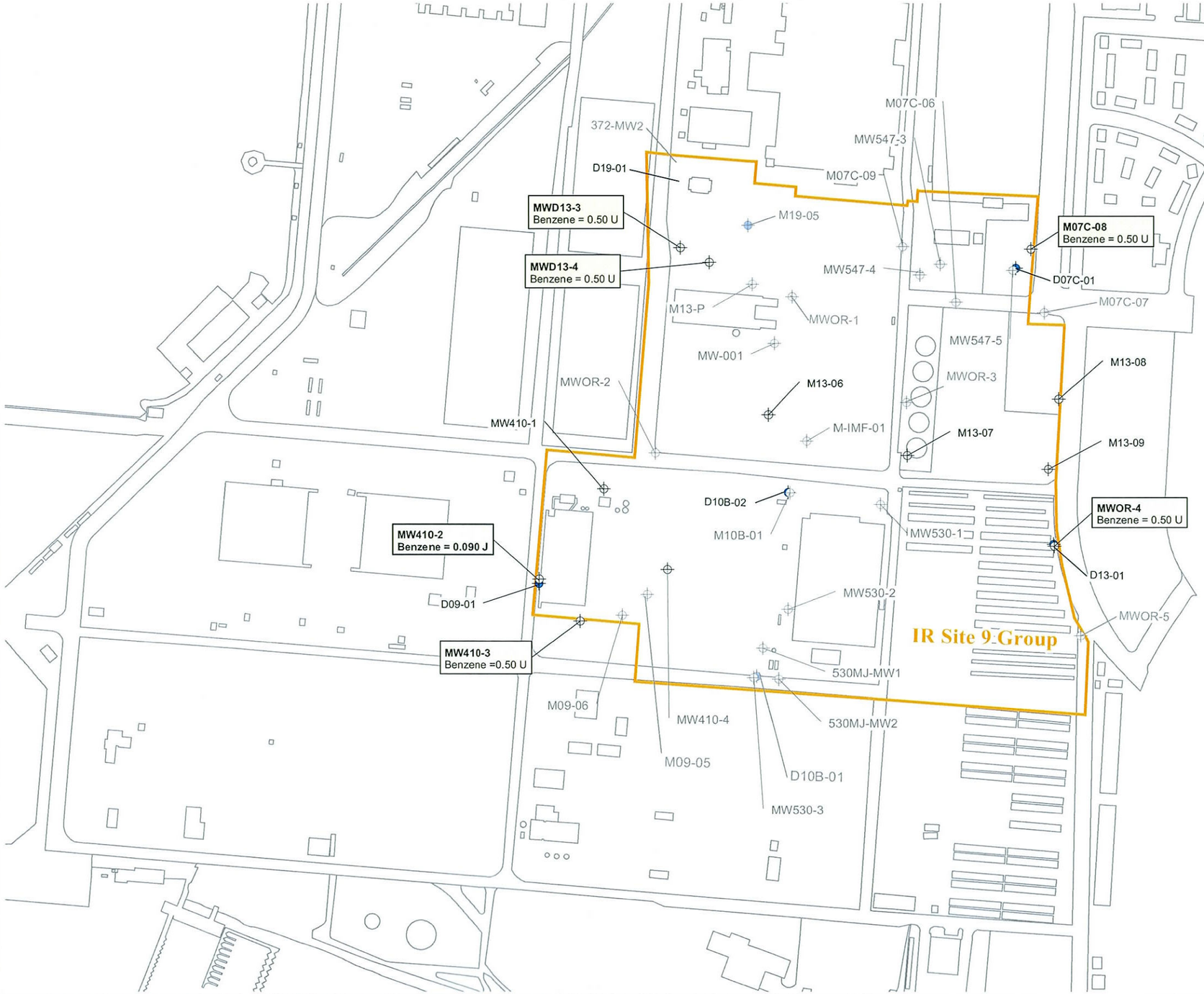
FIGURE 4.1-2
OPERABLE UNIT 2A - IR SITE 9 GROUP
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007



Legend

- First Water Bearing Zone (FWBZ) Wells
- FWBZ Well, Not Sampled
- Second Water Bearing Zone (SWBZ) Wells
- SWBZ Well, Not Sampled
- IR Site Boundary
- Facility Infrastructure

J Estimated Value
U Not Detected
ug/L Micrograms per Liter

Results presented in ug/L
Highlighted values exceed MCL

Bold text indicates detected analyte

Analyte	MCL	Units
Benzene	1.0	ug/L

N

300 0 300

Feet

2002 Projects\5.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 9 Benzene Map.mxd

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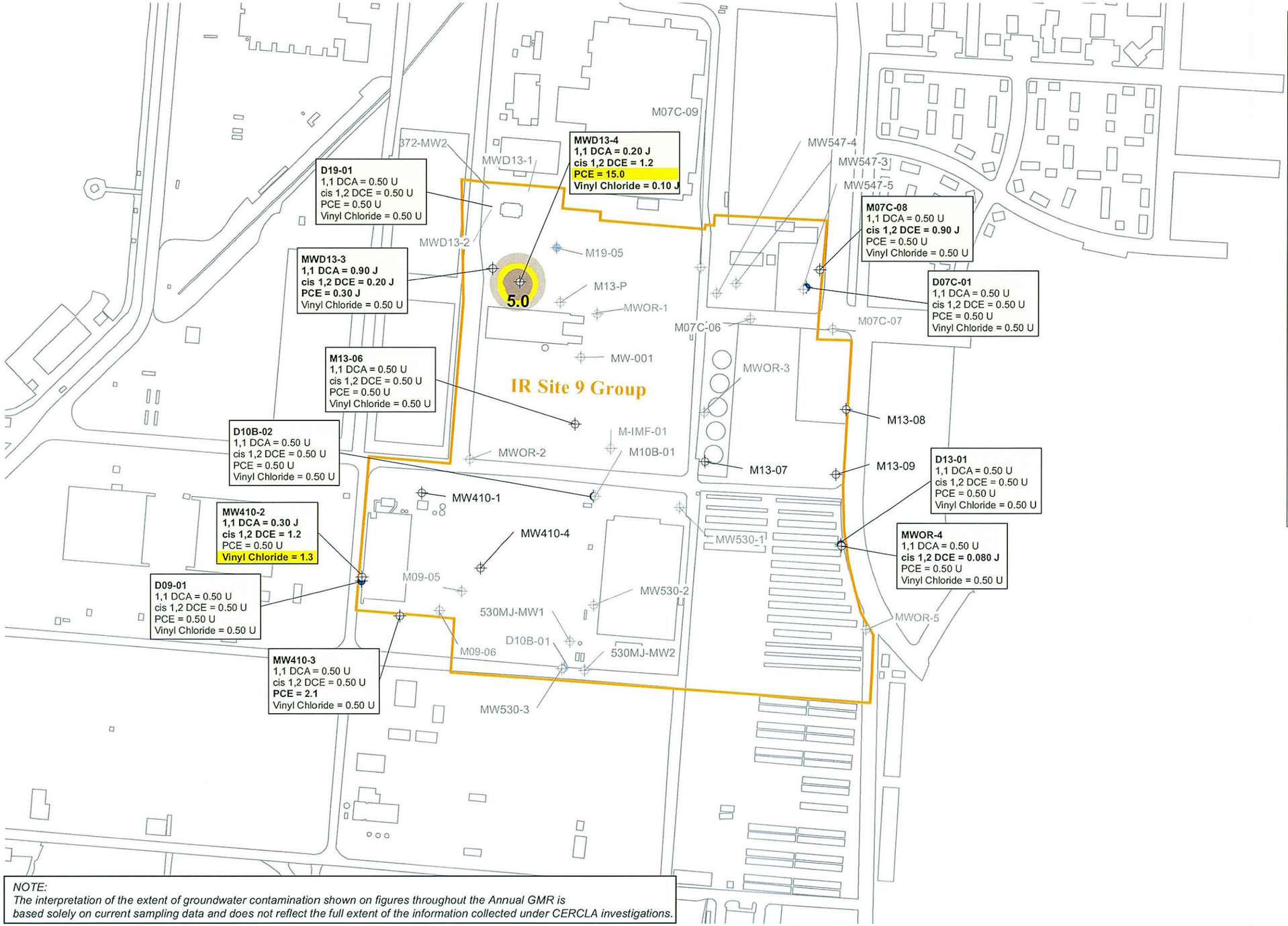
FIGURE 4.1-3
OPERABLE UNIT 2A - IR SITE 9 GROUP
GROUNDWATER DISTRIBUTION OF BENZENE IN FWBZ WELLS
SPRING 2007



Legend

- First Water Bearing Zone (FWBZ) Wells
- FWBZ Well, Not Sampled
- Second Water Bearing Zone (SWBZ) Wells
- SWBZ Well, Not Sampled
- 5.0 ug/L MCL Contour for PCE
- 1.0 - 5.0 ug/L PCE
- > 5.0 ug/L PCE
- IR Site Boundary
- Facility Infrastructure

J	Estimated Value
MCL	Maximum Contaminant Level
DCA	Dichloroethane
DCE	Dichloroethene
PCE	Tetrachloroethene
U	Not Detected
ug/L	Micrograms per Liter

Contours are based on the maximum PCE concentration at each location

Results presented in ug/L
Highlighted values exceed MCL

Bold text indicates detected analyte

Analyte	MCL	Units
1,1 DCA	5.0	ug/L
cis 1,2, DCE	6.0	ug/L
PCE	5.0	ug/L
Vinyl Chloride	0.50	ug/L

N

300 0 300

Feet

NOTE:
The interpretation of the extent of groundwater contamination shown on figures throughout the Annual GMR is based solely on current sampling data and does not reflect the full extent of the information collected under CERCLA investigations.

2002 Projects\0...3.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 9 Chlorinated HydroC Map.mxd

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FIGURE 4.1-4
OPERABLE UNIT 2A - IR SITE 9 GROUP
GROUNDWATER DISTRIBUTION OF SELECTED CHLORINATED HYDROCARBONS
IN FWBZ AND SWBZ WELLS
SPRING 2007

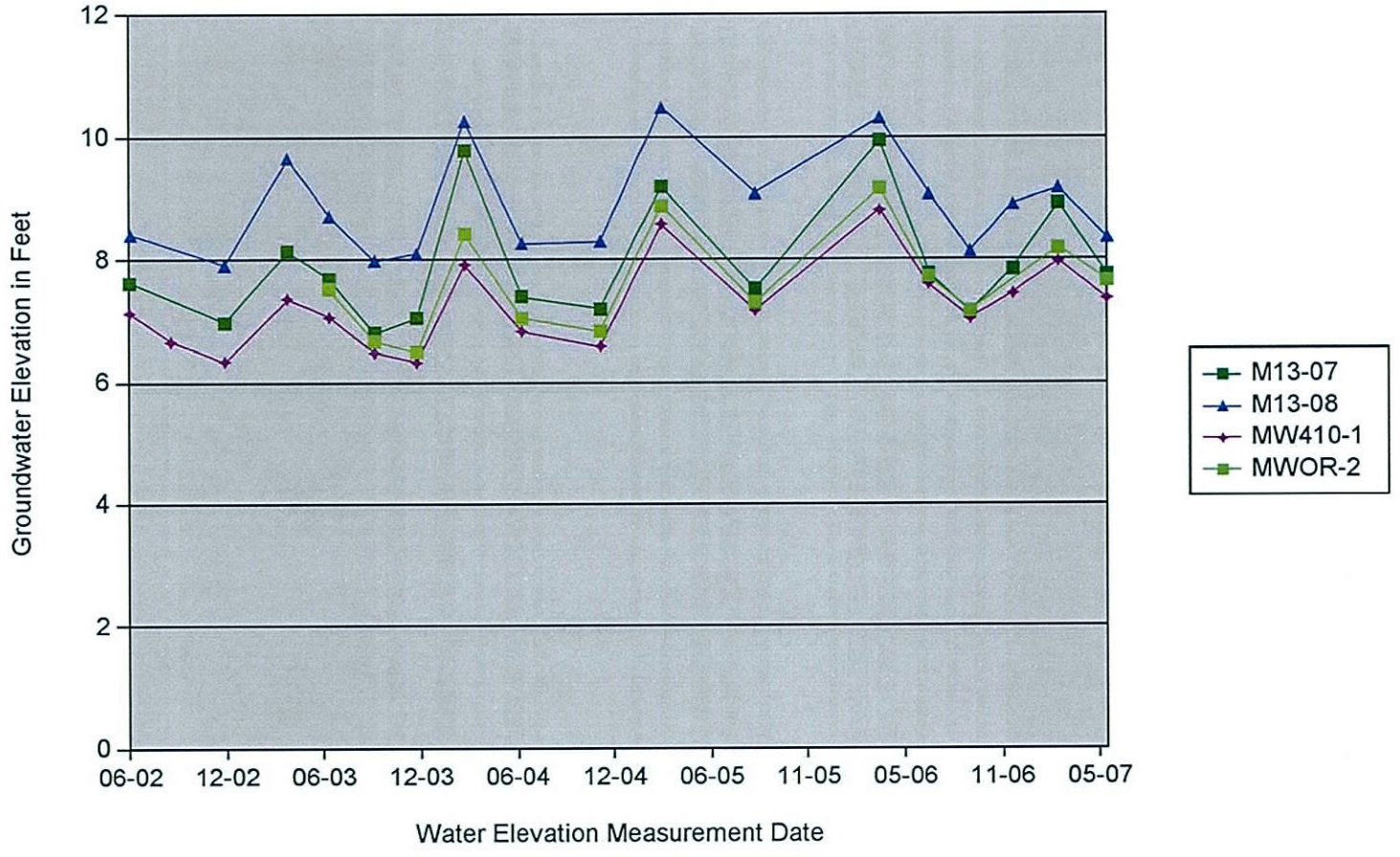

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FIGURE 4.1-5a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2A- IR SITE 9 GROUP:
EAST-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 4.1-5a.ai

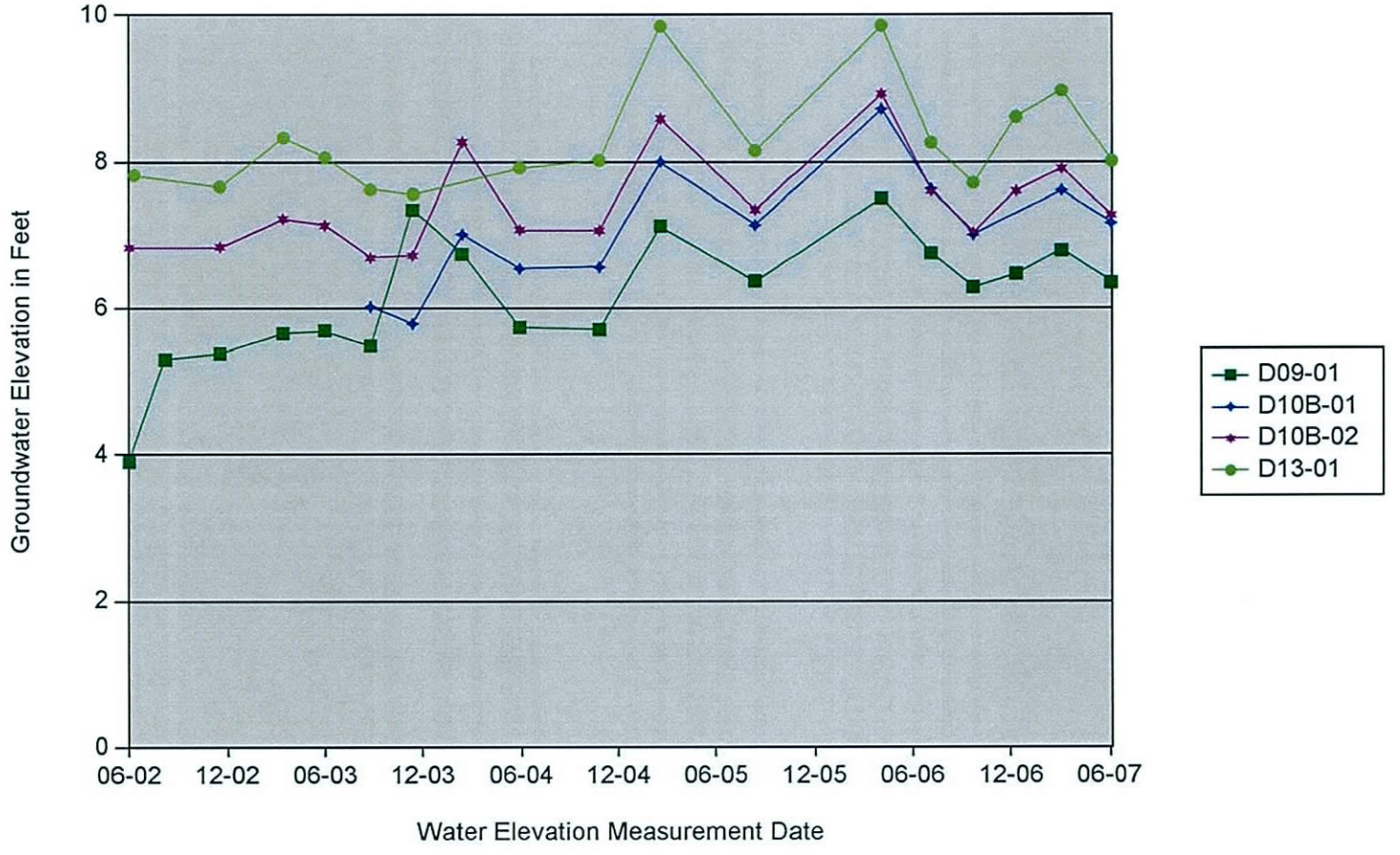

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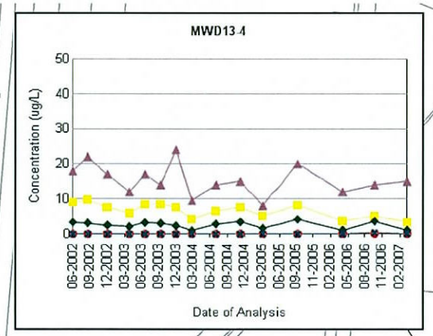
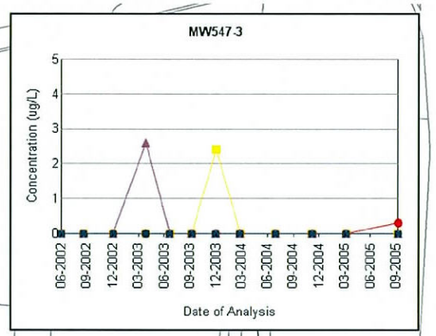
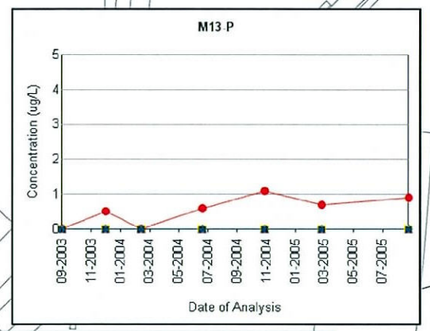
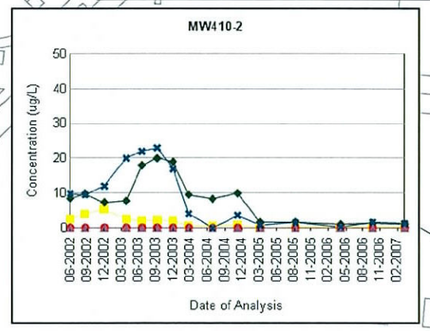
FIGURE 4.1-5b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2A- IR SITE 9 GROUP:
EAST-WEST ORIENTED SWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

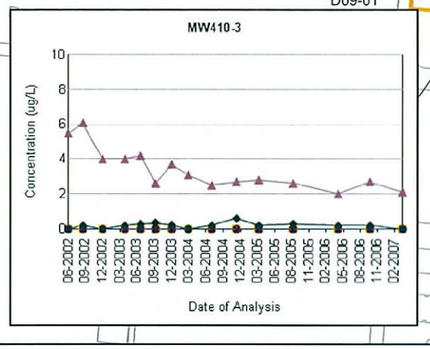
2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 4.1-5b.ai

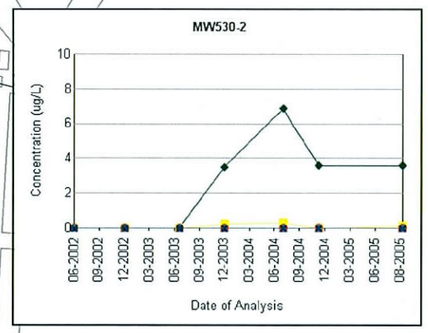












372-MW2
D19-01
MWD13-3
M19-05
5.0
MW547-5
M07C-08
M07C-09
D07C-01
MW547-4
MWOR-1
M07C-06
M07C-07
MW-001
MWOR-3
M13-08
M13-06
M-IMF-01
MWOR-2
M13-07
M13-09
MW410-1
D10B-02
M10B-01
MW530-1
D13-01
MWOR-4
MW410-4
M09-05
D09-01
MWOR-5
M09-06
530MJ-MW1
MW530-3
D10B-01
530MJ-MW2

Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- 1.0 - 5.0 ug/L PCE
- > 5.0 ug/L PCE
- 5.0 ug/L MCL Contour for PCE
- IR Site Boundary
- Facility Infrastructure

DCA	Dichloroethane
DCE	Dichloroethene
PCE	Tetrachloroethene
J	Estimated Value
MCL	Maximum Contaminant Level
U	Not Detected
ug/L	Micrograms per Liter

- 1,1 DCA
- 1,2 DCA
- cis 1,2 DCE
- PCE
- Vinyl Chloride

Analyte	MCL	Units
1,1 DCA	5.0	UG/L
1,2 DCA	0.50	UG/L
cis 1,2 DCE	6.0	UG/L
PCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

N

300 0 300

Feet

NOTE:
Plume maps will be updated upon compilation of data received from concurrent site operations.

2002 Projects\...11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 9 Chlor HydroC Map.mxd

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FIGURE 4.1-6
OPERABLE UNIT 2A - IR SITE 9 GROUP
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME IN SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- ug/L micrograms per liter
- TPH Total Petroleum Hyrdrocarbons

Benzene
TPH-Diesel
TPH-Gasoline

Analyte	MCL	Units
Benzene	1.0	UG/L

N

300 0 300

Feet

FIGURE 4.1-7
OPERABLE UNIT 2A - IR SITE 9 GROUP
GROUNDWATER CONCENTRATIONS OF BENZENE AND SELECTED PETROLEUM HYDROCARBONS OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

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2002 Projects\...11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 9 Benzene Trend Map.mxd

5.0 OPERABLE UNIT 2B

Operable Unit 2B is comprised of Installation Restoration Site 3 Group.

5.1 INSTALLATION RESTORATION SITE 3 GROUP

The IR Site 3 Group is located in the Southeastern Industrial Area of Alameda Point (Figure 1-2) and includes IR Sites 3, 4, 11, 21, and the surrounding areas. The IR sites included in the group share common hydrogeologic conditions and similar contaminants of potential concern (COPCs). Seaplane Lagoon borders the Group to the west, and a residential community (the City of Alameda) is located directly east. Historically, this area overlies what was once the western margin of the Island of Alameda. Land use at these sites has been industrial. IR Site 3, also known as Area 97, is a former Fuel Storage Area; IR Site 4, Building 360, was an Aircraft Engine Facility and Plating Shop; IR Site 11, Building 14, was an Engine Test Cell; and IR Site 21, Building 162, was used for Ship Fitting and Engine Repair. The Draft OU-2 RI Report (Tetra Tech, 1999b) provides additional information about the nature and distribution of contaminants at the site.

IR Site 3 contained four partially buried concrete tanks (97-A, 97-B, 97-C, and 97-D) and one partially buried steel tank (97-E). Each tank had a nominal capacity of 100,000 gallons and contained 115/145 aviation gasoline (AVGAS) (Ecology & Environment, Inc. [E&E], 1983). The four concrete tanks were installed in 1943, and the steel tank was added in 1962. In 1986, the AVGAS tanks were drained, cleaned, broken down to below grade, and buried in place. From the 1960s until 1978, as much as 365,000 gallons of AVGAS may have leaked (Tetra Tech, 2001a). In 1978, gasoline vapors were discovered in sewers and utility ducts. Tank 97-A and its fuel line to the north were also known to have leaked.

The primary feature at IR Site 4 is Building 360, a former aircraft engine repair facility that contained specialized production shops. Former plating shop operations within Building 360 included: paint stripping by blasting; chrome, silver, and nickel stripping; etching; and chrome, silver, nickel, and copper plating. Building 372, formerly used as an engine test facility, is located west of Building 360. A jet fuel spill occurred in Test Cells 13 and 14 at the

southwestern corner of Building 372. Building 163, also located west of Building 360, was used for aircraft maintenance in the late 1940s. The building contained machine shops, welding shops, and chemical storage areas. This building was originally part of historic Pacific Coast Borax Works.

IR Site 11 is located on approximately 5.3 acres on the southwestern corner of the Ingersoll Avenue and Viking Street intersection. The site consists primarily of Building 14, which contained 12 engine test cells. The building was constructed in the 1940s, and served as the primary site at Alameda Point for aircraft engine repair and testing. Area 37, located immediately south of IR Site 11, was a major petroleum storage and distribution point. The area contained USTs that were removed between 1995 and 1998.

IR Site 21 is located on the southwestern corner of the intersection of Atlantic Avenue and Viking Street. Building 162, a Ship Fitting and Engine Repair shop was used for performing maintenance of aircraft and ship components; activities included cleaning, repairing, assembling and testing. Building 398, located in the northern portion of IR Site 21, contained aircraft engine test cells, an auxiliary power unit shop, and a cooling air-turbine shop; operations in this building included solvent cleaning, degreasing, abrasive blasting, and connecting/disconnecting engines.

Chemicals of potential concern at the IR Site 3 Group are segregated into two geographic areas, with petroleum contaminants dominating IR Site 3 and chlorinated solvents of primary concern at IR Sites 4, 11, and 21. Previous VOC concentrations near the 1 percent solubility limit suggest the presence of dense non-aqueous phase liquid (DNAPL); however, preliminary results from the design data collection have not confirmed the presence of DNAPL.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 3 Group included sampling and analysis of 39 groundwater monitoring wells (31 FWBZ wells and 8 SWBZ wells). Another 16 FWBZ groundwater monitoring wells are used for quarterly groundwater-level measurements only. All groundwater monitoring points in the Summer 2006 and Spring 2007 program are listed in Table 5.1-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone, and geologic formation for each well.

Non-program wells (i.e., wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 5.1-1.

5.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 55 FWBZ and 8 SWBZ groundwater monitoring wells during the current sampling year (Summer 2006 through Spring 2007) at IR Site 3 Group; monitoring well locations are shown on Figure 5.1-1. The results are presented along with previously collected water-level data in Table 5.1-2. Figure 5.1-2 provides a visual representation of the potentiometric surface for both the FWBZ and SWBZ based on the groundwater elevations.

5.1.2 Analytical Parameters

Groundwater monitoring wells at IR Site 3 Group collected during the current sampling year were analyzed for the following parameters:

- TPH by EPA Method 8015B
- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)
- 1,4-dioxane by EPA Method 8270 SIM.

At the Navy's direction, analysis for 1,4-dioxane was added in Spring 2007 for six wells in the IR Site 3 Group: M03-10, M03-15, M03-16, MW360-1, MW360-2, and MW360-4. These six monitoring wells were selected based on historical detections of PCE or similar chlorinated hydrocarbon compounds during previous sampling events. The frequency of sampling coincides with the current sampling schedule for VOCs at the target wells

Table 5.1-1 lists the IR Site 3 Group groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well.

5.1.3 Analytical Results Summary

The analytical results for the current sampling year along with previously obtained analytical results are summarized in the following tables:

- Table 5.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group, Summer 2002 through Spring 2007"
- Table 5.1-4, "Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 2B - IR Site 3 Group, Spring 2007"
- Table 5.1-5, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group, Summer 2002 through Spring 2007"
- Table 5.1-6, "Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group, Summer 2002 through Spring 2007"
- Table 5.1-7, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group, Summer 2002 through Spring 2007".

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal EPA. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in **bold** text on the metals tables only.

5.1.4 Discussion of Results

Groundwater samples collected during the Fall 2006 and Spring 2007 sampling events indicate consistent detections of TPH in groundwater in many of the site wells. The maximum value for the sum of the TPH fractions during the Fall 2006 sampling event was 45,100 µg/L in M03-04, with TPH characterized as diesel and jet fuel being the primary components (Table 5.1-3). Wells

M03-04 and 398-MW4 have had consistent detections at concentrations greatly exceeding the MCL for **benzene** during the current year and during historical sampling events. One well, MW360-1, also consistently has exhibited **1,4-DCBZ** concentrations exceeding the MCL. Benzene and 1,4 DCBZ were the only aromatic hydrocarbons exceeding an MCL during the current sampling year. Aromatic hydrocarbons were detected infrequently in the SWBZ at concentrations less than MCLs.

Concentrations of various chlorinated hydrocarbons have been consistently detected in groundwater samples collected from several groundwater monitoring wells screened in the FWBZ at IR Site 3 Group. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 to Spring 2007 sampling year: **TCE, 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), 1,1-DCA, 1,2-DCA and vinyl chloride**. Only one SWBZ well, D03-04, had a concentration of 1,1-DCE above MCLs during the current sampling year. This is the first detection of 1,1-DCE exceeding the MCL levels in any of the SWBZ wells for the IR Site 3 Group (Table 5.1 3).

Concentrations of 1,4-dioxane were detected in two wells during the Spring 2007 sampling event: a trace concentration (0.33 J µg/L) in groundwater from well M03-10, and 73.0 µg/L in groundwater from well MW360-1. Well MW360-1 has historically shown elevated concentrations of TCE and related chlorinated hydrocarbon constituents.

Dissolved metals detected in excess of MCLs during the current sampling year include **arsenic, lead**, and **nickel** in the FWBZ wells and **chromium and nickel** in the SWBZ wells.

Among metals, most MCL exceedances in IR Site 3 Group wells do not appear to signify contaminant plumes, because the exceedances have not been consistent through time and many of them are below their respective background values. Arsenic has consistently exceeded its MCL, and less consistently also exceeded its background value at five FWBZ monitoring well locations: M03-04, M03-05, M03-06, M03-10, and 37-MJ-MW1. Nickel values have consistently exceeded MCLs and background values at three well locations: M03-09, M03-12,

and M03-15. The nickel exceedances are isolated spatially and do not form a definable plume. Lead exceedances of both MCLs and background values have occurred in two wells adjacent to the Seaplane Lagoon (OU2B-MW01 and OU2B-MW02), and appear to form a small plume. Chromium exceeded its MCL and background value in one SWBZ well (D03-03) during the current sampling year.

5.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 5.1-2. The groundwater flow direction in the FWBZ at IR Site 3 Group is highly variable, but generally ranges from north to west, towards the Seaplane Lagoon, at an average gradient of approximately 0.003 feet per foot. Groundwater flow direction in the SWBZ at IR Site 3 Group is generally to the north, with local variations to the west, also at a gradient of approximately 0.003 feet per foot. Water levels in SWBZ wells at IR Site 3 Group are generally 0.5 to 2 feet lower than levels in nearby FWBZ wells, indicating an overall downward vertical gradient.

The groundwater FWBZ potentiometric surface in IR Site 3 exhibits an irregular pattern, with higher groundwater elevations measured in wells located on the southeastern corner of the site and with a fairly sharp drop-off in water elevation occurring at the edge of the Seaplane Lagoon.

5.1.4.2 Groundwater Contaminant Distribution

Chlorinated and aromatic hydrocarbons are present in groundwater at IR Site 3 Group at concentrations exceeding the MCLs. The distribution of selected chlorinated and selected aromatic hydrocarbons is shown on Figures 5.1-3 and 5.1-4.

TCE was selected as an indicator compound for Figure 5.1-3 to represent the distribution of chlorinated VOCs in groundwater detected at concentrations exceeding MCLs. Significant concentrations of TCE are usually detected in two wells screened in the FWBZ: M03-15 and MW360-1. The highest concentrations of TCE are generally found in samples collected from well M03-15 in the western portion of IR Site 3. During the Spring 2007 event, concentrations detected in M03-15 showed a sharp drop to levels lower than the second well MW360-1 that detected TCE consistently and historically in the eastern portion of IR Site 3.

Benzene was chosen as an indicator compound for Figure 5.1-4 to represent the distribution of aromatic VOCs detected in groundwater at concentrations exceeding MCLs. Benzene was detected in two wells at concentrations exceeding its MCL. The highest concentrations of benzene are generally found in the vicinity of well M03-04 in the northern portion of IR Site 3 and appear unrelated to the distribution of chlorinated VOCs. Well 398-MW4 had the highest benzene detection for this event. This well is screened in the FWBZ in the shallow artificial fill material and the upper part of the BSU.

5.1.4.3 Comparison of Current Analytical Results with Historical Data

A comprehensive summary of the groundwater sampling analytical results for the current sampling year is provided in Table 5.1-8, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. In addition, Table 5.1-8 also lists the historical maximum concentration for each analyte. Concentrations exceeding MCLs are highlighted in yellow.

In general, many of the analytes detected and exceeding MCLs during the Summer 2006 through Spring 2007 sampling year were similar to previous sampling years (Table 5.1-8), with the following exceptions:

- Tetrachloroethene, 1,2-dichloroethane, methyl tertiary-butyl ether (MTBE) and methylene chloride, cadmium, chromium, selenium, and thallium in the FWBZ, exceeded MCLs during historical sampling, but not during the current sampling year.
- 1,1-Dichloroethene exceeded the MCL during the current sampling year in a SWBZ well that historically contained detections below the MCL.
- Arsenic, lead and nickel in the FWBZ exceeded their respective MCLs during the 2006-2007 event. Historic exceedences in the FWBZ included arsenic, lead, nickel, cadmium, chromium, selenium and thallium.
- Chromium and nickel in the SWBZ exceeded their respective MCLs during the 2006-2007 event. Antimony, arsenic, cadmium, lead, selenium, thallium, and aluminum in the SWBZ exceeded their respective MCLs during historical sampling events.

5.1.4.4 Trends in Groundwater Elevation Data

For IR Site 3 Group, three hydrographs have been prepared for the Spring 2007 Annual Report, as follows:

- Figure 5.1-5a, "Trends in Groundwater Elevations at Operable Unit 2B - IR Site 3 Group: Northwest-Southeast Oriented FWBZ Wells, Summer 2002 through Spring 2007"
- Figure 5.1-5b, "Trends in Groundwater Elevations at Operable Unit 2B - IR Site 3 Group: SWBZ Well D04-01 and Co-Located FWBZ Well MW360-3, Summer 2002 through Spring 2007"
- Figure 5.1-5c, "Trends in Groundwater Elevations at Operable Unit 2B - IR Site 3 Group: SWBZ Well D11-01 and Co-Located FWBZ Well M11-04, Summer 2002 through Spring 2007".

The following observations can be made from viewing the hydrographs:

- Groundwater elevations at IR Site 3 Group show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. Although the degree of seasonal fluctuation varies, a similar pattern is apparent even for widely spaced monitoring wells (Figure 5-5a).
- An overall increase in groundwater elevations over time is apparent; i.e., peak seasonal elevations for most wells have shown a tendency to increase every year since 2002. These changes are likely due to an overall increase in precipitation during the measurement interval.
- Hydrographs for clustered wells shown on Figures 5.1-5b and 5.1-5c indicate a downward vertical gradient between co-located FWBZ and SWBZ wells that is mostly consistent over time; i.e., groundwater elevations for the FWBZ wells are usually higher than levels in the corresponding SWBZ wells. An exception to this general downward gradient existed for co-located wells MW360-3 and D04-01 during Fall 2006 and Spring 2007; elevations were approximately equal for these measurement events, with no evidence of a vertical gradient between the two wells at that time.

A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is absent.

5.1.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at IR Site 3 Group since monitoring was initiated at the site in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 5.1-6 and 5.1-7.

The groundwater concentrations of chlorinated and aromatic hydrocarbons show significant fluctuations. These fluctuations may be related to the influence of seasonal fluctuations in groundwater elevations caused by periods of rainfall. The overall trends of the time-series plots indicate a general decrease in concentrations over time for most analytes, with the exception of TCE in wells M03-16 and MW360-1. However, where detected, concentrations of 1,1-DCE appear to be stable and not decreasing. Further, there has been an increase in the benzene concentration at well 398-MW4, indicating that the center of mass for benzene is possibly migrating downgradient.

Wells defining the plume boundaries consistently show low to non-detect concentrations of organic constituents, and the same constituents tend to show up in the same set of wells from one sampling event to another. Three distinct TCE plumes are evident at IR Site 3 (Figure 5.1-6). The plume boundaries appear to be stable and the distribution of wells adequately captures the plume boundaries for chlorinated hydrocarbons.

The benzene plume shown in Figure 5.1-7 indicates decreasing concentrations over time at its center of mass at well M03-04. However, an unusual and significant benzene concentration was detected at well 398-MW4, downgradient of well M03-04. The northern end of the plume is not sufficiently characterized along the 1 µg/L MCL boundary for benzene.

5.1.5 Conclusions and Recommendations

As discussed in the previous subsections, IR Site 3 Group contaminants of concern include several chlorinated hydrocarbons and benzene, as presented in the plume diagrams on Figures 5.1-3 and 5.1-4. Trends over time shown on Figures 5.1-6 and 5.1-7 suggest that the concentrations of these contaminants have been decreasing over time during the monitoring program. COCs also include 1,4-DCB and metals chromium and nickel. Additional wells are

recommended at the northern portion of the benzene plume north-northeast of well M03-04 to properly define the plume boundary.

Based on review of the natural attenuation database for IR Site 3 and evaluation of data collected in 2006–2007, the Navy recommends eliminating analysis for natural attenuation parameters. Due to exceedances in lead concentrations, continued quarterly monitoring of wells OU2B-MW01 and OU2B-MW02 is recommended for an additional year. Monitoring for 1,4-dioxane will continue for the proposed minimum of 4 events.

Since the corrective action area in question is a petroleum site, any additional evaluation that is deemed necessary to address the benzene distribution in this area will be conducted under the Navy's Petroleum Program. Additional CERCLA-related investigations will be deferred to the CERCLA program for OU-2B.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 5.1-1
Groundwater Monitoring Summary, Operable Unit 2B -IR Site 3 Group, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)
Groundwater Monitoring Program Wells														
First	372-MW1	Fill	2.5 - 12.5	A	A	A		A[2]	A	A	A	A	A	A
	398-MW4	Fill	2.9 - 12.9	S	S	S		S[2]	A	A	A	A	A	A
	M03-04	Fill-BSU	3 - 11	S	S	S		S[2]		A				A
	M03-05	Fill-BSU	3 - 13	S	S	S		S[2]	A	A	A	A	A	A
	M03-06	Fill-Upper Merritt	3 - 12	S	S	S		S[2]	A	A	A	A	A	A
	M03-07	BSU-Upper Merritt	3 - 13	S	S	S		S[2]		A				
	M03-09	Upper Merritt	21 - 33	S	S	S		S[2]						
	M03-10	Upper Merritt	28 - 38	S	S	S	S[1]	S[2]						
	M03-11	Upper Merritt	26 - 36	S	S	S		S[2]						
	M03-12	Upper Merritt	26 - 36	S	S	S		S[2]						
	M03-13	Upper Merritt	26.5 - 36.5	S	S	S		S[2]						
	M03-14	Upper Merritt	27 - 36.5			S								
	M03-15	Upper Merritt	26 - 35.5			S	S[1]	S						
	M03-16	Upper Merritt	24.5 - 34			S	S[1]	S						
	M04-05	Fill-Upper Merritt	3.5 - 13.5	S	S	S		S[2]	A	A	A	A	A	A
	M04-06	Fill-Upper Merritt	3.5 - 13.5	S	S	S		S[2]		A				A
	M07B-01	Fill-BSU	4 - 11	A	A	A		A[2]		A			A	A

Table 5.1-1
Groundwater Monitoring Summary, Operable Unit 2B -IR Site 3 Group, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)
First	M11-01	Fill-BSU	4 - 9.5					S[2]						
	M11-04	Fill-BSU	5 - 12	S	S	S		S[2]		A				A
	M11-05	Fill-BSU-Upper Merritt	4 - 14	S	S	S		S[2]	A	A	A	A	A	A
	M11-06	Fill-BSU-Upper Merritt	4 - 14	S	S	S		S[2]		A				A
	MW360-1	Fill-Upper Merritt	5 - 15	A	A	A	A[1]	A[2]		A				A
	MW360-2	Fill-Upper Merritt	5 - 15	S[3]	S[3]	S[3]	S[3]	S[2,3]	A[3]	A[3]	A[3]	A[3]	A[3]	A[3]
	MW360-3	Fill-Upper Merritt	5 - 15	S	S	S		S[2]		A				A
	MW360-4	Fill-Upper Merritt	5 - 15	A	A	A	A[1]	A[2]		A				A
	MW97-3	Fill-BSU-Upper Merritt	5 - 15	S	S	S		S[2]		A				A
	OU2B-MW01	Fill-Upper Merritt	7 - 12	S	S	S		Q	A	A	A	A	A	A
	OU2B-MW02	Fill-Upper Merritt	7 - 12	S	S	S		Q		A				A
	OU2B-MW03	Fill-Upper Merritt	7 - 12	S	S	S		Q		A				A
	OU2B-MW04	Fill-Upper Merritt	7 - 12	S	S	S		Q		A				A
	OU2B-MW05	Fill-Upper Merritt	7 - 12	S	S	S		Q	A	A	A	A	A	A
Second	D03-01	Merritt	49.5 - 59.5	S	S	A		S[2]		A				A
	D03-02	Lower Merritt	46.5 - 56.5			S		S						
	D03-03	Lower Merritt	48 - 58			A		S						
	D03-04	Lower Merritt	47 - 57			A		S						
	D04-01	USA	86 - 96	A	A	A		A[2]	A	A	A	A	A	A
	D04-02	USA	86.5 - 96.5	A	A	A		A[2]	A	A	A	A	A	A
	D04-03	USA	84 - 94	S	S	S		S[2]		A				A
	D11-01	Merritt	50 - 60	S	S	A		S[2]	A	A	A	A	A	A

Table 5.1-1
Groundwater Monitoring Summary, Operable Unit 2B -IR Site 3 Group, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)
Non-Program Wells, Water Level Only														
First	37-MJ-MW1	Fill-BSU	4.2 - 12	-	-	-	-	-	-	-	-	-	-	-
	37-MJ-MW5	Fill-BSU	4.2 - 12	-	-	-	-	-	-	-	-	-	-	-
	398-MW2	Fill	2.5 - 12.5	-	-	-	-	-	-	-	-	-	-	-
	398-MW3	Fill	2.9 - 12.9	-	-	-	-	-	-	-	-	-	-	-
	M03-08A	Fill-BSU	3 - 11	-	-	-	-	-	-	-	-	-	-	-
	M03-17	Upper Merritt	24 - 33.5	-	-	-	-	-	-	-	-	-	-	-
	M04-07	Fill-BSU	3 - 13	-	-	-	-	-	-	-	-	-	-	-
	M11-02	Fill-Upper Merritt	3 - 12	-	-	-	-	-	-	-	-	-	-	-
	MBG-3	Fill-Merritt	5 - 15	-	-	-	-	-	-	-	-	-	-	-
	MW547-1	BSU-Upper Merritt	3 - 13	-	-	-	-	-	-	-	-	-	-	-
	MW547-2	Upper Merritt	21 - 33	-	-	-	-	-	-	-	-	-	-	-
	MW97-1	Upper Merritt	28 - 38	-	-	-	-	-	-	-	-	-	-	-
	MW97-2	Upper Merritt	26 - 36	-	-	-	-	-	-	-	-	-	-	-
	MWD13-1	Upper Merritt	26 - 36	-	-	-	-	-	-	-	-	-	-	-
	MWD13-2	Upper Merritt	26.5 -36.5	-	-	-	-	-	-	-	-	-	-	-
	WA-8	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-	-	-

Table 5.1-1
Groundwater Monitoring Summary, Operable Unit 2B -IR Site 3 Group, Summer 2006 through Spring 2007

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters					
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

Q Well sampled for this analyte group QUARTERLY; Summer 2006, Fall 2006, Winter 2006, and Spring 2007

\- Well not in analytical program.

[1] Spring 2007 only

[2] Priority Pollutant metals only

[3] Inaccessible due to the six-phase heating operations

Fill - Artificial Fill

BSU - Bay Sediment Unit

USA - Upper San Antonio Formation

Merritt - Merritt Sand

FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method

TDS - Total Dissolved Solids

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	37-MJ-MW-5 ‡	11.1	10.70	03/06/07	3.75	6.95
		11.1	10.70	12/13/06	4.48	6.22
		11.1	10.70	09/25/06	5.65	5.05
		11.1	10.70	07/10/06	6.25	4.45
		11.1	10.70	04/10/06	3.06	7.64
		11.1	10.70	08/23/05	5.57	5.13
		11.1	10.70	03/02/05	2.37	8.33
		11.1	10.70	11/08/04	5.29	5.41
		11.1	10.70	06/15/04	5.57	5.13
		11.1	10.70	03/01/04	2.85	7.85
		11.1	10.70	12/02/03	5.91	4.79
		11.1	10.70	09/15/03	5.88	4.82
		11.1	10.70	06/24/03	5.50	5.20
		11.1	10.70	04/07/03	5.00	5.70
First	37-MJ-MW1	11.4	10.77 *	03/06/07	4.45	6.32
		11.4	10.77 *	12/13/06	NM	NC
		11.4	10.77 *	09/25/06	5.61	5.16
		11.4	10.77 *	07/10/06	4.91	5.86
		11.4	10.77 *	04/10/06	2.14	8.63
		11.4	10.77 *	08/23/05	5.50	5.27
		11.4	10.77 *	03/02/05	2.40	8.37
		11.4	10.77 *	11/08/04	5.48	5.29
		11.4	10.77 *	06/15/04	6.47	4.30
		11.4	10.77 *	03/01/04	3.16	7.61
		11.4	10.77 *	12/02/03	5.68	5.09
		11.4	10.77 *	09/15/03	5.91	4.86
		11.4	10.77 *	06/24/03	5.46	5.31
		11.4	10.77 *	04/07/03	4.91	5.86
		11.4	10.77 *	12/09/02	5.95	4.82
		11.4	10.77 *	09/03/02	5.92	4.85
		11.4	10.77 *	06/25/02	5.65	5.12
First	372-MW1	12.0	11.80 *	03/06/07	3.66	8.14
		12.0	11.80 *	12/13/06	NM	NC
		12.0	11.80 *	09/25/06	2.12	9.68
		12.0	11.80 *	07/10/06	2.01	9.79
		12.0	11.80 *	04/10/06	1.57	10.23
		12.0	11.80 *	08/23/05	1.92	9.88
		12.0	11.80 *	03/02/05	1.85	9.95
		12.0	11.80 *	11/08/04	2.08	9.72
		12.0	11.80 *	06/15/04	1.20	10.60
		12.0	11.80 *	03/01/04	1.60	10.20
		12.0	11.80 *	12/02/03	2.00	9.80
		12.0	11.80 *	09/15/03	2.27	9.53
		12.0	11.80 *	06/23/03	2.17	9.63
		12.0	11.80 *	04/07/03	2.15	9.65
		12.0	11.80 *	07/11/02	2.50	9.30

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	398-MW2 ‡	11.7	11.42	03/06/07	4.52	6.90
		11.7	11.42	12/13/06	4.41	7.01
		11.7	11.42	09/25/06	5.21	6.21
		11.7	11.42	07/10/06	4.83	6.59
		11.7	11.42	04/10/06	4.11	7.31
		11.7	11.42	08/23/05	5.08	6.34
		11.7	11.42	03/02/05	4.21	7.21
		11.7	11.42	11/08/04	5.13	6.29
		11.7	11.42	06/15/04	5.26	6.16
		11.7	11.42	03/01/04	4.42	7.00
		11.7	11.42	12/02/03	4.84	6.58
		11.7	11.42	09/15/03	5.54	5.88
		11.7	11.42	06/24/03	5.11	6.31
		11.7	11.42	04/07/03	5.91	5.51
First	398-MW3 ‡	11.7	11.47	03/06/07	4.58	6.89
		11.7	11.47	12/13/06	NM	NC
		11.7	11.47	09/25/06	5.14	6.33
		11.7	11.47	07/10/06	4.45	7.02
		11.7	11.47	04/10/06	4.03	7.44
		11.7	11.47	08/23/05	5.00	6.47
		11.7	11.47	03/02/05	4.30	7.17
		11.7	11.47	11/08/04	5.19	6.28
		11.7	11.47	06/15/04	5.11	6.36
		11.7	11.47	03/02/04	4.46	7.01
		11.7	11.47	12/02/03	5.24	6.23
		11.7	11.47	09/15/03	5.32	6.15
		11.7	11.47	06/24/03	5.04	6.43
First	398-MW4	11.3	11.14 *	03/06/07	4.44	6.70
		11.3	11.14 *	12/13/06	NM	NC
		11.3	11.14 *	09/25/06	4.82	6.32
		11.3	11.14 *	07/10/06	4.42	6.72
		11.3	11.14 *	04/10/06	3.76	7.38
		11.3	11.14 *	08/23/05	4.71	6.43
		11.3	11.14 *	03/02/05	4.25	6.89
		11.3	11.14 *	11/08/04	5.13	6.01
		11.3	11.14 *	06/15/04	4.86	6.28
		11.3	11.14 *	03/01/04	4.38	6.76
		11.3	11.14 *	12/02/03	5.30	5.84
		11.3	11.14 *	09/15/03	5.10	6.04
		11.3	11.14 *	06/24/03	4.80	6.34
		11.3	11.14 *	04/07/03	4.71	6.43
		11.3	11.14 *	12/09/02	5.30	5.84
		11.3	11.14 *	09/03/02	5.10	6.04
		11.3	11.14 *	06/20/02	4.86	6.28
First	M03-04	12.4	12.21 *	03/06/07	5.59	6.62
		12.4	12.21 *	12/13/06	6.06	6.15

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-04	12.4	12.21 *	09/25/06	5.75	6.46
		12.4	12.21 *	07/10/06	5.34	6.87
		12.4	12.21 *	04/10/06	4.96	7.25
		12.4	12.21 *	08/23/05	5.70	6.51
		12.4	12.21 *	03/02/05	5.61	6.60
		12.4	12.21 *	11/08/04	6.39	5.82
		12.4	12.21 *	06/15/04	5.91	6.30
		12.4	12.21 *	03/01/04	5.60	6.61
		12.4	12.21 *	12/02/03	6.62	5.59
		12.4	12.21 *	09/15/03	6.15	6.06
		12.4	12.21 *	06/24/03	5.81	6.40
		12.4	12.21 *	04/07/03	5.84	6.37
		12.4	12.21 *	12/09/02	6.46	5.75
		12.4	12.21 *	09/03/02	6.10	6.11
		12.4	12.21 *	06/20/02	5.82	6.39
First	M03-05	12.2	11.84 *	03/06/07	NM	NC
		12.2	11.84 *	12/13/06	6.24	5.60
		12.2	11.84 *	09/25/06	6.24	5.60
		12.2	11.84 *	07/10/06	6.02	5.82
		12.2	11.84 *	04/10/06	4.91	6.93
		12.2	11.84 *	08/23/05	6.21	5.63
		12.2	11.84 *	03/02/05	5.40	6.44
		12.2	11.84 *	11/08/04	6.16	5.68
		12.2	11.84 *	06/15/04	6.27	5.57
		12.2	11.84 *	03/01/04	5.37	6.47
		12.2	11.84 *	12/02/03	6.48	5.36
		12.2	11.84 *	09/15/03	6.51	5.33
		12.2	11.84 *	06/23/03	6.21	5.63
		12.2	11.84 *	04/07/03	6.01	5.83
		12.2	11.84 *	12/09/02	6.46	5.38
		12.2	11.84 *	07/03/02	6.31	5.53
First	M03-06	12.4	12.00 *	03/06/07	NM	NC
		12.4	12.00 *	12/14/06	5.66	6.34
		12.4	12.00 *	09/25/06	DESTROYED	DESTROYED
		12.4	12.00 *	07/11/06	5.95	6.05
		12.4	12.00 *	04/10/06	4.95	7.05
		12.4	12.00 *	08/23/05	6.25	5.75
		12.4	12.00 *	03/02/05	5.54	6.46
		12.4	12.00 *	11/08/04	6.37	5.63
		12.4	12.00 *	06/15/04	NM	NC
		12.4	12.00 *	03/01/04	5.85	6.15
		12.4	12.00 *	12/02/03	6.40	5.60
		12.4	12.00 *	09/15/03	6.65	5.35
		12.4	12.00 *	06/23/03	6.33	5.67
		12.4	12.00 *	04/07/03	6.21	5.79
		12.4	12.00 *	12/09/02	6.59	5.41
		12.4	12.00 *	09/03/02	6.72	5.28

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-06	12.4	12.00 *	07/03/02	6.55	5.45
First	M03-07	10.9	10.22 *	03/06/07	2.99	7.23
		10.9	10.22 *	12/13/06	NM	NC
		10.9	10.22 *	09/25/06	3.97	6.25
		10.9	10.22 *	07/10/06	3.38	6.84
		10.9	10.22 *	04/10/06	2.10	8.12
		10.9	10.22 *	08/23/05	3.70	6.52
		10.9	10.22 *	03/02/05	2.96	7.26
		10.9	10.22 *	11/08/04	3.45	6.77
		10.9	10.22 *	06/15/04	3.58	6.64
		10.9	10.22 *	03/01/04	2.42	7.80
		10.9	10.22 *	12/02/03	3.90	6.32
		10.9	10.22 *	09/15/03	3.61	6.61
		10.9	10.22 *	06/23/03	3.55	6.67
		10.9	10.22 *	04/07/03	3.33	6.89
		10.9	10.22 *	12/09/02	4.10	6.12
		10.9	10.22 *	06/20/02	3.70	6.52
First	M03-08A ‡	11.8	11.51 **	03/06/07	NM	NC
		11.8	11.51 **	12/14/06	8.45	3.06
		11.8	11.51 **	09/25/06	5.46	6.05
		11.8	11.51 **	07/11/06	5.35	6.16
		11.8	11.51 **	04/10/06	4.59	6.92
		11.8	11.51 **	08/23/05	5.56	5.95
		11.8	11.51 **	03/02/05	5.02	6.49
		11.8	11.51 **	11/08/04	5.77	5.74
		11.8	11.51 **	06/15/04	5.85	5.66
		11.8	11.51 **	03/01/04	5.05	6.46
		11.8	11.51 **	12/02/03	5.92	5.59
		11.8	11.51 **	09/15/03	5.95	5.56
		11.8	11.51 **	06/24/03	5.89	5.62
		11.8	11.51 **	04/07/03	5.31	6.20
First	M03-09	12.7	12.21 *	03/06/07	6.02	6.19
		12.7	12.21 *	12/13/06	NM	NC
		12.7	12.21 *	09/25/06	6.36	5.85
		12.7	12.21 *	07/10/06	5.88	6.33
		12.7	12.21 *	04/10/06	5.52	6.69
		12.7	12.21 *	08/23/05	6.12	6.09
		12.7	12.21 *	03/02/05	5.85	6.36
		12.7	12.21 *	11/08/04	6.38	5.83
		12.7	12.21 *	06/15/04	6.34	5.87
		12.7	12.21 *	03/01/04	5.91	6.30
		12.7	12.21 *	12/02/03	6.79	5.42
		12.7	12.21 *	09/15/03	6.57	5.64
		12.7	12.21 *	06/24/03	6.36	5.85
		12.7	12.21 *	04/07/03	4.87	7.34
		12.7	12.21 *	12/09/02	6.77	5.44
		12.7	12.21 *	09/06/02	6.76	5.45

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-10	12.70	12.23 *	03/06/07	4.80	7.43
		12.70	12.23 *	12/12/06	NM	NC
		12.70	12.23 *	09/25/06	5.51	6.72
		12.70	12.23 *	07/11/06	NM	NC
		12.70	12.23 *	04/10/06	NM	NC
		12.70	12.23 *	08/23/05	5.10	7.13
		12.70	12.23 *	03/02/05	4.07	8.16
		12.70	12.23 *	11/08/04	5.47	6.76
		12.70	12.23 *	06/15/04	5.60	6.63
		12.70	12.23 *	03/01/04	4.25	7.98
		12.70	12.23 *	12/02/03	5.70	6.53
		12.70	12.23 *	09/15/03	5.77	6.46
		12.70	12.23 *	06/23/03	5.38	6.85
		12.70	12.23 *	04/07/03	5.11	7.12
		12.70	12.23 *	12/13/02	7.00	5.23
		12.70	12.23 *	09/06/02	6.31	5.92
First	M03-11	11.74	11.29 *	03/06/07	2.80	8.49
		11.74	11.29 *	12/13/06	3.04	8.25
		11.74	11.29 *	09/25/06	3.98	7.31
		11.74	11.29 *	07/10/06	3.46	7.83
		11.74	11.29 *	04/10/06	1.85	9.44
		11.74	11.29 *	08/23/05	3.61	7.68
		11.74	11.29 *	03/02/05	1.60	9.69
		11.74	11.29 *	11/08/04	3.38	7.91
		11.74	11.29 *	06/15/04	3.51	7.78
		11.74	11.29 *	03/01/04	1.83	9.46
		11.74	11.29 *	12/02/03	3.54	7.75
		11.74	11.29 *	09/15/03	3.81	7.48
		11.74	11.29 *	06/23/03	3.27	8.02
		11.74	11.29 *	04/07/03	3.01	8.28
		11.74	11.29 *	12/09/02	3.76	7.53
		11.74	11.29 *	09/09/02	3.98	7.31
First	M03-12	12.21	12.06 *	03/06/07	NM	NC
		12.21	12.06 *	12/13/06	NM	NC
		12.21	12.06 *	09/25/06	4.61	7.45
		12.21	12.06 *	07/11/06	3.98	8.08
		12.21	12.06 *	04/10/06	2.41	9.65
		12.21	12.06 *	08/23/05	3.97	8.09
		12.21	12.06 *	03/02/05	6.77	5.29
		12.21	12.06 *	11/08/04	3.62	8.44
		12.21	12.06 *	06/15/04	3.80	8.26
		12.21	12.06 *	03/02/04	2.02	10.04
		12.21	12.06 *	12/02/03	3.87	8.19
		12.21	12.06 *	09/15/03	4.01	8.05
		12.21	12.06 *	06/23/03	5.15	6.91
		12.21	12.06 *	04/07/03	3.27	8.79
		12.21	12.06 *	12/09/02	4.57	7.49

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-12	12.21	12.06 *	09/09/02	4.53	7.53
First	M03-13	12.90	12.49 *	03/06/07	3.32	9.17
		12.90	12.49 *	12/13/06	4.11	8.38
		12.90	12.49 *	09/25/06	5.29	7.20
		12.90	12.49 *	07/10/06	4.85	7.64
		12.90	12.49 *	04/10/06	2.10	10.39
		12.90	12.49 *	08/23/05	4.21	8.28
		12.90	12.49 *	03/02/05	1.68	10.81
		12.90	12.49 *	11/08/04	4.46	8.03
		12.90	12.49 *	06/15/04	4.15	8.34
		12.90	12.49 *	03/02/04	2.37	10.12
		12.90	12.49 *	12/02/03	4.68	7.81
		12.90	12.49 *	09/15/03	4.30	8.19
		12.90	12.49 *	06/23/03	3.63	8.86
		12.90	12.49 *	04/07/03	3.47	9.02
		12.90	12.49 *	12/09/02	4.08	8.41
		12.90	12.49 *	09/09/02	4.72	7.77
First	M03-14	12.30	12.30	03/07/07	NM	NC
		12.30	12.30	12/01/06	6.16	6.14
		12.30	12.30	09/25/06	6.39	5.91
		12.30	12.30	07/12/06	4.72	7.58
		12.30	12.30	04/10/06	6.30	6.00
		12.30	12.30	08/23/05	6.30	6.00
		12.30	12.30	03/02/05	4.62	7.68
		12.30	12.30	11/08/04	6.68	5.62
		12.30	12.30	06/15/04	6.48	5.82
First	M03-15	12.17	12.17	03/06/07	6.35	5.82
		12.17	12.17	12/13/06	NM	NC
		12.17	12.17	09/25/06	7.00	5.17
		12.17	12.17	07/10/06	6.70	5.47
		12.17	12.17	04/10/06	5.53	6.64
		12.17	12.17	08/23/05	6.91	5.26
		12.17	12.17	03/02/05	6.40	5.77
		12.17	12.17	11/08/04	7.07	5.10
		12.17	12.17	06/15/04	7.62	4.55
First	M03-16	9.31	9.31	03/12/07	6.97	2.34
		9.31	9.31	12/13/06	NM	NC
		9.31	9.31	09/27/06	5.62	3.69
		9.31	9.31	07/10/06	7.38	1.93
		9.31	9.31	04/10/06	4.53	4.78
		9.31	9.31	08/23/05	5.90	3.41
		9.31	9.31	03/02/05	5.50	3.81
		9.31	9.31	11/08/04	5.31	4.00
		9.31	9.31	06/15/04	5.96	3.35
First	M03-17	8.81	8.81	03/12/07	6.00	2.81
		8.81	8.81	12/13/06	5.36	3.45
		8.81	8.81	09/27/06	4.70	4.11

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-17	8.81	8.81	07/10/06	8.30	0.51
		8.81	8.81	04/10/06	3.87	4.94
		8.81	8.81	08/23/05	4.25	4.56
		8.81	8.81	03/02/05	3.51	5.30
		8.81	8.81	11/08/04	4.45	4.36
		8.81	8.81	06/15/04	5.68	3.13
First	M04-05	13.12	12.74	03/06/07	NM	NC
		13.12	12.74	12/12/06	NM	NC
		13.12	12.74	09/25/06	5.30	7.44
		13.12	12.74	07/11/06	4.78	7.96
		13.12	12.74	04/10/06	3.81	8.93
		13.12	12.74	08/23/05	4.95	7.79
		13.12	12.74	03/02/05	4.08	8.66
		13.12	12.74	11/08/04	4.95	7.79
		13.12	12.74	06/15/04	4.98	7.76
First	M04-06	12.85	12.30	03/06/07	2.48	9.82
		12.85	12.30	12/13/06	3.84	8.46
		12.85	12.30	09/25/06	3.55	8.75
		12.85	12.30	07/10/06	2.93	9.37
		12.85	12.30	04/10/06	1.27	11.03
		12.85	12.30	08/23/05	3.20	9.10
		12.85	12.30	03/02/05	0.60	11.70
		12.85	12.30	11/08/04	3.35	8.95
		12.85	12.30	06/15/04	3.35	8.95
First	M04-07 ‡	11.8	11.81 **	03/06/07	3.71	8.10
		11.8	11.81 **	12/14/06	NM	NC
		11.8	11.81 **	09/25/06	5.05	6.76
		11.8	11.81 **	07/10/06	4.54	7.27
		11.8	11.81 **	04/10/06	3.69	8.12
		11.8	11.81 **	08/23/05	4.86	6.95
		11.8	11.81 **	03/02/05	3.72	8.09
		11.8	11.81 **	11/08/04	4.92	6.89
		11.8	11.81 **	06/15/04	NM	NC
		11.8	11.81 **	03/01/04	3.78	8.03
		11.8	11.81 **	12/02/03	5.80	6.01
		11.8	11.81 **	09/15/03	5.31	6.50
		11.8	11.81 **	06/23/03	4.81	7.00
		11.8	11.81 **	04/07/03	4.48	7.33
First	M07B-01	11.7	11.12 *	03/06/07	4.75	6.37
		11.7	11.12 *	12/14/06	NM	NC
		11.7	11.12 *	09/25/06	5.82	5.30
		11.7	11.12 *	07/10/06	5.46	5.66
		11.7	11.12 *	04/10/06	4.01	7.11
		11.7	11.12 *	08/23/05	5.71	5.41
		11.7	11.12 *	03/02/05	4.16	6.96
		11.7	11.12 *	11/08/04	5.35	5.77
		11.7	11.12 *	06/15/04	5.80	5.32

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07B-01	11.7	11.12 *	03/01/04	4.28	6.84
		11.7	11.12 *	12/02/03	5.09	6.03
		11.7	11.12 *	09/15/03	6.03	5.09
		11.7	11.12 *	06/24/03	5.62	5.50
		11.7	11.12 *	04/07/03	5.24	5.88
		11.7	11.12 *	12/09/02	5.90	5.22
		11.7	11.12 *	09/03/02	6.08	5.04
		11.7	11.12 *	06/20/02	5.82	5.30
First	M11-01	12.4	12.02 *	03/06/07	6.30	5.72
		12.4	12.02 *	12/14/06	6.71	5.31
		12.4	12.02 *	09/25/06	6.95	5.07
		12.4	12.02 *	07/10/06	6.58	5.44
		12.4	12.02 *	04/10/06	5.39	6.63
		12.4	12.02 *	08/23/05	6.93	5.09
		12.4	12.02 *	03/02/05	5.73	6.29
		12.4	12.02 *	11/08/04	6.93	5.09
		12.4	12.02 *	06/15/04	7.05	4.97
		12.4	12.02 *	03/01/04	6.03	5.99
		12.4	12.02 *	12/02/03	7.26	4.76
		12.4	12.02 *	09/15/03	7.22	4.80
		12.4	12.02 *	06/24/03	6.90	5.12
		12.4	12.02 *	04/07/03	6.66	5.36
		12.4	12.02 *	12/09/02	7.15	4.87
		12.4	12.02 *	09/03/02	7.28	4.74
		12.4	12.02 *	06/21/02	7.11	4.91
First	M11-02 ‡	12.2	11.75 **	03/06/07	5.21	6.54
		12.2	11.75 **	12/14/06	NM	NC
		12.2	11.75 **	09/25/06	5.98	5.77
		12.2	11.75 **	07/10/06	5.48	6.27
		12.2	11.75 **	04/10/06	4.32	7.43
		12.2	11.75 **	08/23/05	5.92	5.83
		12.2	11.75 **	03/02/05	4.78	6.97
		12.2	11.75 **	11/08/04	6.15	5.60
		12.2	11.75 **	06/15/04	6.00	5.75
		12.2	11.75 **	03/01/04	5.04	6.71
		12.2	11.75 **	12/02/03	6.31	5.44
		12.2	11.75 **	09/15/03	6.38	5.37
		12.2	11.75 **	06/24/03	5.81	5.94
		12.2	11.75 **	04/07/03	5.51	6.24
First	M11-04	11.9	11.83 *	03/06/07	3.99	7.84
		11.9	11.83 *	12/14/06	4.98	6.85
		11.9	11.83 *	09/25/06	5.78	6.05
		11.9	11.83 *	07/11/06	5.10	6.73
		11.9	11.83 *	04/10/06	2.89	8.94
		11.9	11.83 *	08/23/05	5.71	6.12
		11.9	11.83 *	03/02/05	2.79	9.04
		11.9	11.83 *	11/08/04	5.58	6.25

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M11-04	11.9	11.83 *	06/15/04	5.70	6.13
		11.9	11.83 *	03/01/04	3.36	8.47
		11.9	11.83 *	12/02/03	6.06	5.77
		11.9	11.83 *	09/15/03	6.15	5.68
		11.9	11.83 *	06/24/03	5.44	6.39
		11.9	11.83 *	04/07/03	4.95	6.88
		11.9	11.83 *	12/09/02	6.13	5.70
		11.9	11.83 *	09/03/02	6.19	5.64
		11.9	11.83 *	06/20/02	5.70	6.13
First	M11-05	11.2	10.79 *	03/06/07	5.03	5.76
		11.2	10.79 *	12/14/07	5.24	5.55
		11.2	10.79 *	09/25/06	5.82	4.97
		11.2	10.79 *	07/10/06	5.44	5.35
		11.2	10.79 *	04/10/06	4.26	6.53
		11.2	10.79 *	08/23/05	5.70	5.09
		11.2	10.79 *	03/02/05	4.49	6.30
		11.2	10.79 *	11/08/04	5.61	5.18
		11.2	10.79 *	06/15/04	5.85	4.94
		11.2	10.79 *	03/01/04	4.40	6.39
		11.2	10.79 *	12/02/03	5.87	4.92
		11.2	10.79 *	09/15/03	5.86	4.93
		11.2	10.79 *	06/24/03	5.77	5.02
		11.2	10.79 *	04/07/03	5.62	5.17
		11.2	10.79 *	12/09/02	5.72	5.07
		11.2	10.79 *	09/03/02	6.00	4.79
		11.2	10.79 *	06/20/02	5.96	4.83
First	M11-06	11.0	10.68 *	03/06/07	5.50	5.18
		11.0	10.68 *	12/14/06	NM	NC
		11.0	10.68 *	09/25/06	6.12	4.56
		11.0	10.68 *	07/10/06	5.45	5.23
		11.0	10.68 *	04/10/06	4.75	5.93
		11.0	10.68 *	08/23/05	6.00	4.68
		11.0	10.68 *	03/02/05	4.80	5.88
		11.0	10.68 *	11/08/04	5.81	4.87
		11.0	10.68 *	06/15/04	6.25	4.43
		11.0	10.68 *	03/01/04	5.10	5.58
		11.0	10.68 *	12/02/03	6.13	4.55
		11.0	10.68 *	09/15/03	6.07	4.61
		11.0	10.68 *	06/24/03	6.08	4.60
		11.0	10.68 *	04/07/03	5.86	4.82
		11.0	10.68 *	12/09/02	5.92	4.76
		11.0	10.68 *	09/03/02	6.20	4.48
		11.0	10.68 *	06/20/02	6.15	4.53
First	MBG-3	12.2	11.86 *	03/06/07	4.35	7.51
		12.2	11.86 *	12/14/06	NM	NC
		12.2	11.86 *	09/25/06	4.33	7.53
		12.2	11.86 *	07/10/06	4.94	6.92

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MBG-3	12.2	11.86 *	04/10/06	2.78	9.08
		12.2	11.86 *	08/23/05	3.99	7.87
		12.2	11.86 *	03/02/05	2.41	9.45
		12.2	11.86 *	11/08/04	3.55	8.31
		12.2	11.86 *	06/15/04	4.29	7.57
		12.2	11.86 *	03/01/04	1.78	10.08
		12.2	11.86 *	12/02/03	3.50	8.36
		12.2	11.86 *	09/15/03	4.40	7.46
		12.2	11.86 *	06/23/03	3.65	8.21
		12.2	11.86 *	04/07/03	3.27	8.59
		12.2	11.86 *	12/09/02	4.16	7.70
		12.2	11.86 *	06/24/02	3.80	8.06
First	MW360-1	11.7	11.27 *	03/06/07	3.55	7.72
		11.7	11.27 *	12/14/06	NM	NC
		11.7	11.27 *	09/25/06	4.38	6.89
		11.7	11.27 *	07/10/06	3.91	7.36
		11.7	11.27 *	04/10/06	2.70	8.57
		11.7	11.27 *	08/23/05	4.11	7.16
		11.7	11.27 *	03/02/05	2.80	8.47
		11.7	11.27 *	11/08/04	4.85	6.42
		11.7	11.27 *	06/15/04	4.11	7.16
		11.7	11.27 *	03/01/04	3.30	7.97
		11.7	11.27 *	12/02/03	4.63	6.64
		11.7	11.27 *	09/15/03	4.52	6.75
		11.7	11.27 *	06/23/03	3.92	7.35
		11.7	11.27 *	04/07/03	3.74	7.53
		11.7	11.27 *	12/09/02	5.27	6.00
		11.7	11.27 *	09/03/02	4.47	6.80
		11.7	11.27 *	06/19/02	4.11	7.16
First	MW360-2	12.8	12.28 *	03/06/07	INACCESIBLE	INACCESIBLE
		12.8	12.28 *	12/12/06	INACCESIBLE	INACCESIBLE
		12.8	12.28 *	09/25/06	5.12	7.16
		12.8	12.28 *	07/11/06	4.38	7.90
		12.8	12.28 *	04/10/06	3.48	8.80
		12.8	12.28 *	08/23/05	5.15	7.13
		12.8	12.28 *	03/02/05	3.54	8.74
		12.8	12.28 *	11/08/04	2.88	9.40
		12.8	12.28 *	06/15/04	4.87	7.41
		12.8	12.28 *	03/01/04	3.66	8.62
		12.8	12.28 *	12/02/03	4.90	7.38
		12.8	12.28 *	09/15/03	5.25	7.03
		12.8	12.28 *	06/23/03	4.66	7.62
		12.8	12.28 *	04/07/03	4.44	7.84
		12.8	12.28 *	12/09/02	5.20	7.08
		12.8	12.28 *	09/03/02	5.15	7.13
		12.8	12.28 *	06/19/02	4.81	7.47

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW360-3	12.8	12.38 *	03/06/07	3.92	8.46
		12.8	12.38 *	12/14/06	4.38	8.00
		12.8	12.38 *	09/25/06	5.14	7.24
		12.8	12.38 *	07/11/06	4.68	7.70
		12.8	12.38 *	04/10/06	2.75	9.63
		12.8	12.38 *	08/23/05	4.21	8.17
		12.8	12.38 *	03/02/05	2.81	9.57
		12.8	12.38 *	11/08/04	4.71	7.67
		12.8	12.38 *	06/15/04	4.64	7.74
		12.8	12.38 *	03/01/04	3.15	9.23
		12.8	12.38 *	12/02/03	4.97	7.41
		12.8	12.38 *	09/15/03	4.61	7.77
		12.8	12.38 *	06/23/03	4.25	8.13
		12.8	12.38 *	04/07/03	4.01	8.37
		12.8	12.38 *	12/09/02	5.00	7.38
		12.8	12.38 *	09/03/02	4.93	7.45
		12.8	12.38 *	06/19/02	4.46	7.92
First	MW360-4	12.4	12.22 *	03/06/07	3.55	8.67
		12.4	12.22 *	12/14/06	3.76	8.46
		12.4	12.22 *	09/25/06	4.58	7.64
		12.4	12.22 *	07/10/06	4.04	8.18
		12.4	12.22 *	04/10/06	2.85	9.37
		12.4	12.22 *	08/23/05	4.13	8.09
		12.4	12.22 *	03/02/05	2.17	10.05
		12.4	12.22 *	11/08/04	4.41	7.81
		12.4	12.22 *	06/15/04	4.88	7.34
		12.4	12.22 *	03/01/04	2.67	9.55
		12.4	12.22 *	12/02/03	4.25	7.97
		12.4	12.22 *	09/15/03	4.40	7.82
		12.4	12.22 *	06/23/03	3.82	8.40
		12.4	12.22 *	04/07/03	3.55	8.67
		12.4	12.22 *	12/09/02	4.43	7.79
		12.4	12.22 *	09/03/02	4.21	8.01
		12.4	12.22 *	06/19/02	3.90	8.32
First	MW547-1 ‡	13.1	12.81 **	03/06/07	3.47	9.34
		13.1	12.81 **	12/14/06	4.74	8.07
		13.1	12.81 **	09/25/06	5.61	7.20
		13.1	12.81 **	07/10/06	5.26	7.55
		13.1	12.81 **	04/10/06	2.23	10.58
		13.1	12.81 **	03/02/05	1.17	11.64
		13.1	12.81 **	11/08/04	4.59	8.22
		13.1	12.81 **	06/15/04	4.24	8.57
		13.1	12.81 **	03/01/04	3.75	9.06
		13.1	12.81 **	12/02/03	4.88	7.93
		13.1	12.81 **	09/15/03	4.46	8.35
		13.1	12.81 **	06/24/03	3.24	9.57
		13.1	12.81 **	04/07/03	2.61	10.20

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW547-2 ‡	12.3	12.04 **	12/12/06	INACCESIBLE	INACCESIBLE
		12.3	12.04 **	09/25/06	INACCESIBLE	INACCESIBLE
		12.3	12.04 **	07/11/06	INACCESIBLE	INACCESIBLE
		12.3	12.04 **	08/23/05	2.40	9.64
		12.3	12.04 **	11/08/04	1.95	10.09
		12.3	12.04 **	06/15/04	3.54	8.50
		12.3	12.04 **	03/01/04	2.88	9.16
		12.3	12.04 **	12/02/03	3.95	8.09
		12.3	12.04 **	09/15/03	3.61	8.43
		12.3	12.04 **	06/24/03	3.31	8.73
		12.3	12.04 **	04/07/03	2.59	9.45
First	MW97-1 ‡	12.0	11.52 **	03/06/07	4.45	7.07
		12.0	11.52 **	12/14/06	5.31	6.21
		12.0	11.52 **	09/27/06	5.00	6.52
		12.0	11.52 **	07/10/06	4.50	7.02
		12.0	11.52 **	04/10/06	4.05	7.47
		12.0	11.52 **	08/23/05	4.96	6.56
		12.0	11.52 **	03/02/05	4.67	6.85
		12.0	11.52 **	11/08/04	5.38	6.14
		12.0	11.52 **	06/15/04	5.31	6.21
		12.0	11.52 **	03/02/04	4.80	6.72
		12.0	11.52 **	12/02/03	5.54	5.98
First	MW97-2 ‡	11.1	11.52 **	03/06/07	4.20	7.32
		11.1	11.52 **	12/14/06	NM	NC
		11.1	11.52 **	09/25/06	4.50	7.02
		11.1	11.52 **	07/10/06	4.42	7.10
		11.1	11.52 **	04/10/06	3.49	8.03
		11.1	11.52 **	08/23/05	4.12	7.40
		11.1	11.52 **	03/02/05	3.46	8.06
		11.1	11.52 **	11/08/04	4.11	7.41
		11.1	11.52 **	06/15/04	4.18	7.34
		11.1	11.52 **	03/01/04	4.41	7.11
		11.1	11.52 **	12/02/03	4.73	6.79
		11.1	11.52 **	09/15/03	4.40	7.12
		11.1	11.52 **	06/23/03	4.15	7.37
		11.1	11.52 **	04/07/03	4.12	7.40
First	MW97-3	12.4	11.99 *	03/06/07	2.91	9.08
		12.4	11.99 *	12/14/06	3.47	8.52
		12.4	11.99 *	09/25/06	3.37	8.62
		12.4	11.99 *	07/10/06	3.64	8.35
		12.4	11.99 *	04/10/06	1.35	10.64
		12.4	11.99 *	08/23/05	2.88	9.11
		12.4	11.99 *	03/02/05	0.66	11.33
		12.4	11.99 *	11/08/04	2.86	9.13
		12.4	11.99 *	06/15/04	3.99	8.00
		12.4	11.99 *	03/01/04	1.51	10.48
		12.4	11.99 *	12/02/03	4.64	7.35

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW97-3	12.4	11.99 *	09/15/03	3.35	8.64
		12.4	11.99 *	06/23/03	4.47	7.52
		12.4	11.99 *	04/07/03	4.30	7.69
		12.4	11.99 *	12/09/02	4.36	7.63
		12.4	11.99 *	09/03/02	3.36	8.63
		12.4	11.99 *	07/03/02	4.28	7.71
First	OU2B-MW01	11.9	12.85 *	03/12/07	5.90	6.95
		11.9	12.85 *	12/13/06	5.41	7.44
		11.9	12.85 *	09/27/06	5.41	7.44
First	OU2B-MW02	11.9	12.85 *	03/12/07	6.57	6.28
		11.9	12.85 *	12/13/06	5.94	6.91
		11.9	12.85 *	09/27/06	5.91	6.94
First	OU2B-MW03	11.9	12.85 *	03/12/07	6.75	6.10
		11.9	12.85 *	12/13/06	5.20	7.65
		11.9	12.85 *	09/27/06	5.30	7.55
First	OU2B-MW04	11.9	12.85 *	03/12/07	5.41	7.44
		11.9	12.85 *	12/138/06	5.00	7.85
		11.9	12.85 *	09/27/06	5.16	7.69
First	OU2B-MW05	11.9	12.85 *	03/12/07	5.80	7.05
		11.9	12.85 *	12/13/06	4.32	8.53
		11.9	12.85 *	09/27/06	4.35	8.50
First	WA-8	11.9	12.85 *	03/06/07	6.36	6.49
		11.9	12.85 *	12/14/06	6.89	5.96
		11.9	12.85 *	09/25/06	7.07	5.78
		11.9	12.85 *	07/11/06	7.02	5.83
		11.9	12.85 *	04/10/06	5.68	7.17
		11.9	12.85 *	08/23/05	7.00	5.85
		11.9	12.85 *	03/02/05	6.02	6.83
		11.9	12.85 *	11/08/04	6.79	6.06
		11.9	12.85 *	06/15/04	7.17	5.68
		11.9	12.85 *	03/02/04	6.16	6.69
		11.9	12.85 *	12/02/03	7.43	5.42
		11.9	12.85 *	09/15/03	7.48	5.37
		11.9	12.85 *	06/23/03	7.05	5.80
		11.9	12.85 *	04/07/03	6.59	6.26
		11.9	12.85 *	12/09/02	7.47	5.38
		11.9	12.85 *	09/03/02	7.32	5.53
		11.9	12.85 *	06/20/02	7.11	5.74
Second	D03-01	12.4	12.30 *	03/06/07	6.06	6.24
		12.4	12.30 *	12/13/06	6.72	5.58
		12.4	12.30 *	09/25/06	6.89	5.41
		12.4	12.30 *	07/10/06	6.79	5.51
		12.4	12.30 *	04/10/06	5.80	6.50
		12.4	12.30 *	08/23/05	6.58	5.72
		12.4	12.30 *	03/02/05	5.78	6.52
		12.4	12.30 *	11/08/04	6.56	5.74
		12.4	12.30 *	06/15/04	6.96	5.34

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D03-01	12.4	12.30 *	03/01/04	5.70	6.60
		12.4	12.30 *	12/02/03	6.67	5.63
		12.4	12.30 *	09/15/03	6.74	5.56
		12.4	12.30 *	06/24/03	6.76	5.54
		12.4	12.30 *	04/07/03	6.78	5.52
		12.4	12.30 *	12/09/02	7.03	5.27
		12.4	12.30 *	07/03/02	6.90	5.40
Second	D03-02	11.97	11.97	03/06/07	6.68	5.29
		11.97	11.97	12/13/06	6.93	5.04
		11.97	11.97	09/25/06	7.16	4.81
		11.97	11.97	07/10/06	7.05	4.92
		11.97	11.97	04/10/06	5.82	6.15
		11.97	11.97	08/23/05	6.67	5.30
		11.97	11.97	03/02/05	6.03	5.94
		11.97	11.97	11/08/04	6.94	5.03
		11.97	11.97	06/15/04	7.00	4.97
Second	D03-03	12.46	12.46	03/06/07	4.95	7.51
		12.46	12.46	12/13/06	5.40	7.06
		12.46	12.46	09/25/06	5.65	6.81
		12.46	12.46	07/10/06	5.05	7.41
		12.46	12.46	04/10/06	4.09	8.37
		12.46	12.46	08/23/05	5.49	6.97
		12.46	12.46	03/02/05	4.60	7.86
		12.46	12.46	11/08/04	5.35	7.11
		12.46	12.46	06/15/04	5.48	6.98
Second	D03-04	11.83	11.83	03/06/07	1.70	10.13
		11.83	11.83	12/13/06	NM	NC
		11.83	11.83	09/25/06	5.32	6.51
		11.83	11.83	07/10/06	5.08	6.75
		11.83	11.83	04/10/06	3.87	7.96
		11.83	11.83	08/23/05	5.11	6.72
		11.83	11.83	03/02/05	7.15	4.68
		11.83	11.83	11/08/04	5.25	6.58
		11.83	11.83	06/15/04	5.33	6.50
Second	D04-01	12.7	12.45 *	03/06/07	4.07	8.38
		12.7	12.45 *	12/13/06	4.61	7.84
		12.7	12.45 *	09/25/06	4.87	7.58
		12.7	12.45 *	07/11/06	4.58	7.87
		12.7	12.45 *	04/10/06	3.26	9.19
		12.7	12.45 *	08/23/05	5.00	7.45
		12.7	12.45 *	03/02/05	3.70	8.75
		12.7	12.45 *	11/08/04	5.29	7.16
		12.7	12.45 *	06/15/04	5.35	7.10
		12.7	12.45 *	03/01/04	4.26	8.19
		12.7	12.45 *	12/02/03	5.18	7.27
		12.7	12.45 *	09/15/03	6.20	6.25
		12.7	12.45 *	06/23/03	5.86	6.59

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D04-01	12.7	12.45 *	04/07/03	5.91	6.54
		12.7	12.45 *	12/09/02	6.60	5.85
		12.7	12.45 *	07/03/02	6.36	6.09
Second	D04-02	12.5	12.33 *	03/06/07	5.49	6.84
		12.5	12.33 *	12/13/06	5.99	6.34
		12.5	12.33 *	09/25/06	6.21	6.12
		12.5	12.33 *	07/10/06	5.88	6.45
		12.5	12.33 *	04/10/06	4.65	7.68
		12.5	12.33 *	08/23/05	6.53	5.80
		12.5	12.33 *	03/02/05	4.70	7.63
		12.5	12.33 *	11/08/04	6.03	6.30
		12.5	12.33 *	06/15/04	6.04	6.29
		12.5	12.33 *	03/02/04	4.79	7.54
		12.5	12.33 *	12/02/03	6.40	5.93
		12.5	12.33 *	09/15/03	6.31	6.02
		12.5	12.33 *	06/23/03	6.09	6.24
		12.5	12.33 *	04/07/03	6.15	6.18
		12.5	12.33 *	12/09/02	6.56	5.77
		12.5	12.33 *	07/03/02	6.31	6.02
Second	D04-03	11.7	11.60 *	03/07/07	6.04	5.56
		11.7	11.60 *	12/13/06	6.38	5.22
		11.7	11.60 *	09/25/06	6.56	5.04
		11.7	11.60 *	07/11/06	5.34	6.26
		11.7	11.60 *	04/10/06	5.12	6.48
		11.7	11.60 *	08/23/05	6.45	5.15
		11.7	11.60 *	03/02/05	5.15	6.45
		11.7	11.60 *	11/08/04	6.29	5.31
		11.7	11.60 *	06/15/04	6.40	5.20
		11.7	11.60 *	03/01/04	5.36	6.24
		11.7	11.60 *	12/02/03	6.64	4.96
		11.7	11.60 *	09/15/03	6.75	4.85
		11.7	11.60 *	06/23/03	6.43	5.17
		11.7	11.60 *	04/07/03	6.39	5.21
		11.7	11.60 *	12/09/02	6.84	4.76
		11.7	11.60 *	07/03/02	6.69	4.91

Table 5.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2B - IR Site 3,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D11-01	11.9	11.57 *	03/07/07	5.36	6.21
		11.9	11.57 *	12/14/06	4.98	6.59
		11.9	11.57 *	09/25/06	5.61	5.96
		11.9	11.57 *	07/11/06	5.43	6.14
		11.9	11.57 *	04/10/06	3.90	7.67
		11.9	11.57 *	08/23/05	5.75	5.82
		11.9	11.57 *	03/02/05	4.72	6.85
		11.9	11.57 *	11/08/04	5.64	5.93
		11.9	11.57 *	06/15/04	5.57	6.00
		11.9	11.57 *	03/01/04	5.01	6.56
		11.9	11.57 *	12/02/03	5.87	5.70
		11.9	11.57 *	09/15/03	5.75	5.82
		11.9	11.57 *	06/24/03	5.48	6.09
		11.9	11.57 *	04/07/03	6.06	5.51
		11.9	11.57 *	12/09/02	5.89	5.68
		11.9	11.57 *	07/08/02	7.32	4.25

Notes:
BTOC = below top of casing
msl = mean sea level
NC = Groundwater elevation not calculated
NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.
** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750
§ = Measured prior to purging well for sampling
‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	372-MW1	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 17.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	44.0 J	< 50.0	44.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	23.0 J	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	74.0 J	74.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	37-MJ-MW1	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	19.0 J	< 50.0	< 300	79.0	98.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	230	170	< 300	170	570	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	67.0	67.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	130	130	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 290	< 190	130	130	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 290	< 190	298	298	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 200 UJ	< 300	< 200	480	480	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	640	640	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	470	470	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	450	450	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	1000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	398-MW4	2007 01 (Spring)	5300	7800	160 J	3300	16600	75.0	< 2.5	1.3 J	< 2.5	< 2.5	< 3.3	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	11.0	< 2.5
		2006 03 (Fall)	2100	2700	330	930	6060	0.20 J	< 0.50	0.080 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	3600	3600	4500	1700	13400	0.60	< 0.50	0.60	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	72.0	220	240 J	1200	1730	1.4 J	0.10 J	3.0	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	350	1000	240 J	1800	3390	11.0	0.60	2.8	0.20 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	310	640	260 J	810	2020	4.2	< 0.50	1.2	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	372-MW1	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	37-MJ-MW1	2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	398-MW4	2007 01 (Spring)	2.1 J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	398-MW4	2004 02 (Summer)	< 50.0	< 50.0	< 300	870	870	1.0	< 0.50	1.5	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	510	510	0.96	< 1.0	1.9	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	130 J	< 280	680	1500	2310	14.0	< 1.0	8.2	0.30 J	< 1.0	1.3 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 290	270	840	1110	9.7	< 1.0	7.4	0.45 J	< 1.0	1.2 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190 UJ	< 280	< 190	490	490	1.0	< 1.0	2.9	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J
		2003 01 (Spring)	< 50.0	< 50.0	< 300	1000	1000	4.0	< 0.50	7.2	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	470	470	2.8	< 0.50	2.5	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.20 J	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	570	570	1.8	< 0.50	4.7	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	340	340	1.8	< 0.50	3.4	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-04	2007 01 (Spring)	4500	7100	290 J	2200	14100	26.0	< 0.50	< 0.50	0.40 J	< 0.50	3.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	19000 J	23000 J	940 J	2200	45100	140	< 0.70	0.90	0.60 J	0.20 J	4.7	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	0.90	0.60 J	< 0.70
		2006 01 (Spring)	17000	23000	230 J	3900	44100	150	0.80 J	9.9	25.0	0.80 J	4.9 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	14000	22000	< 3000	2300	38300	100 J	0.50 J	3.0	11.0	0.30 J	1.3 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2005 01 (Spring)	36000	36000	910 J	2600	75500	63.0	0.40 J	2.3	7.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 04 (Winter)	21000	23000	< 3000	2100	46100	110	0.40 J	1.8	5.0	0.30 J	2.4 J	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 02 (Summer)	< 50.0	< 50.0	< 300	2400	2400	170	0.70	8.8	37.0	0.70	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	440	7900	260	540	9140	230	1.1	12.0	31.0	0.80 J	2.7	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	330	11000	160 J	2000	13500	300 J	0.63 J	4.1	4.7	0.52 J	3.9	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	1400 J	22000	< 190	1800	25200	410	0.63 J	8.2	8.1	0.63 J	5.4	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	320	6800	< 190	2700	9820	360	1.8	49.0	48.0	1.2	4.3	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0
		2003 01 (Spring)	< 50.0	63.0	< 300	2900	2960	300	1.3	38.0	35.0	1.8	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	2100	2100	290	0.60 J	15.0	17.0	1.4	4.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2 J	1.0	< 1.0
		2002 03 (Fall)	< 50.0	< 50.0	< 300	3200	3200	550	1.2 J	77.0	51.0	2.7	5.6 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2002 02 (Summer)	< 50.0	96.0	< 300	4500	4600	440	11.0	150	470	22.0	3.5 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-05	2007 01 (Spring)	25.0 J	85.0	< 300	< 64.0	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	680	590	370	99.0	1740	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	120 J	< 50.0	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	398-MW4	2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-04	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2005 01 (Spring)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 04 (Winter)	< 0.70	< 0.70	< 0.70	< 0.70	0.70	< 0.70
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	4.3	< 1.0	< 0.50
		2003 01 (Spring)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 03 (Fall)	0.30 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2002 02 (Summer)	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-05	2007 01 (Spring)	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	1.3	0.50	< 0.50	< 0.50	< 0.50	2.4
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-05	2005 02 (Summer)	< 50.0	< 50.0	220 J	< 50.0	220	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	780	610	350	97.0	1840	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.2	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 61.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.8	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0
		2003 02 (Summer)	< 190	< 290	< 190	46.0 J	46.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	40.0 J	40.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 77.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-06	2007 01 (Spring)	39.0 J	< 50.0	< 300	< 44.0	39.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80
		2006 01 (Spring)	93.0	60.0	< 300	< 50.0	153	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4 J
		2005 02 (Summer)	45.0 J	< 50.0	< 300	< 50.0	45.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	1.9
		2005 01 (Spring)	480	71.0	180 J	< 50.0	731	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3
		2004 04 (Winter)	350	< 50.0	110 J	65.0	525	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	1.1
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	3.7
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	0.20 J	2.6
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	8.3
	M03-07	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	690	150	1000	66.0	1910	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	39.0 J	< 50.0	160 J	< 50.0	199	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	610	< 50.0	750	72.0	1430	0.30 J	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M03-05	2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	3.7	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J
		2004 02 (Summer)	5.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	3.2	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	1.8	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-06	2007 01 (Spring)	0.20 J	0.40 J	0.20 J	< 0.50	< 0.50	1.1
		2006 01 (Spring)	0.20 J	1.8	0.40 J	< 0.50	< 0.50	1.7
		2005 02 (Summer)	0.40 J	1.7	1.1	< 0.50	< 0.50	2.3
		2005 01 (Spring)	0.30 J	0.90	0.80	< 0.50	< 0.50	2.2
		2004 04 (Winter)	0.40 J	0.90	0.50	< 0.50	< 0.50	1.6
		2004 02 (Summer)	0.50	1.3	1.1	< 0.50	< 0.50	3.1
		2004 01 (Spring)	0.35 J	0.86 J	1.5	< 0.50	< 1.0	2.2
		2003 04 (Winter)	0.41 J	1.4	0.71 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	0.86 J	1.2	2.3	< 0.50	< 1.0	4.5
		2003 02 (Summer)	0.43 J	0.51 J	0.58 J	< 0.50	< 1.0	2.2
		2003 01 (Spring)	0.70	1.1	5.9	< 0.50	< 0.50	5.3
		2002 04 (Winter)	0.70	0.40 J	2.0	< 0.50	< 0.50	4.2
		2002 03 (Fall)	0.90	0.80	2.8	< 0.50	< 0.50	3.6
		2002 02 (Summer)	1.9	1.0	22.0	< 0.50	< 0.50	5.3
	M03-07	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-07	2003 04 (Winter)	< 190	< 280	150 J	< 50.0	150	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190 UJ	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-09	2007 01 (Spring)	< 13.0	< 50.0	< 300	< 17.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	220	63.0	180 J	65.0	528	< 0.50	< 0.50	0.20 J	0.20 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.30 J	0.40 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	110 J	< 50.0	110	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	39.0 J	39.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	740	110	680	79.0	1610	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.90	< 0.50	0.70	0.60	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	0.58 J	0.65 J	0.51 J	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	26.0 J	26.0	0.31 J	< 1.0	1.1	1.8	1.4	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	-	-	-	61.0	61.0	1.1	< 1.0	2.8	5.4	2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	47.0 J	47.0	0.46 J	< 1.0	1.9	3.6	1.3	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	65.0	65.0	0.50	< 0.50	1.5	3.0	0.80	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	100	100	0.90	< 0.50	1.7	2.6	1.1	1.6 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 54.0	< 300	0.60 J	< 1.7	0.80 J	1.2 J	0.40 J	3.7 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-10	2007 01 (Spring)	< 56.0 UJ	< 56.0 UJ	< 330 UJ	< 61.0	< 330	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 130	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	91.0	1500
		2006 03 (Fall)	< 50.0	< 50.0	< 300	72.0	72.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 170	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	110	1600
		2006 01 (Spring)	< 50.0	< 50.0	< 300	55.0	55.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 170	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	110	1900
		2005 02 (Summer)	< 50.0	< 50.0	< 300	79.0	79.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	110	1800
		2005 01 (Spring)	-	-	-	83.0	83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 330	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	85.0	1800
		2004 04 (Winter)	290	< 50.0	200 J	58.0	548	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0	< 250	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0	100	1500
		2004 02 (Summer)	< 50.0	< 50.0	< 300	96.0	96.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	110	1600
		2004 01 (Spring)	-	-	-	48.0 J	48.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	99.0	1400
		2003 04 (Winter)	< 190	< 280	< 190	56.0	56.0	< 0.50	1.1	< 1.0	< 1.0	< 1.0	0.94 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	100	1500

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M03-07	2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-09	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-10	2007 01 (Spring)	25.0 J	< 31.0	< 31.0	< 31.0	8.5 J	< 31.0
		2006 03 (Fall)	16.0 J	< 42.0	< 42.0	< 42.0	13.0 J	< 42.0
		2006 01 (Spring)	26.0 J	< 42.0	< 42.0	< 42.0	13.0 J	< 42.0
		2005 02 (Summer)	32.0 J	< 50.0	< 50.0	< 50.0	16.0 J	< 50.0
		2005 01 (Spring)	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0
		2004 04 (Winter)	45.0 J	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0
		2004 02 (Summer)	36.0	< 5.0	4.1 J	< 5.0	17.0	5.7
		2004 01 (Spring)	45.0	< 10.0	4.2 J	< 5.0	15.0	10.0
		2003 04 (Winter)	26.0	0.38 J	5.4	1.1	27.0	8.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-10	2003 03 (Fall)	-	-	-	47.0 J	47.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	110	3300
		2003 02 (Summer)	< 190 UJ	< 280	< 190	49.0 J	49.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	120	2300
		2003 01 (Spring)	-	-	-	72.0	72.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	92.0 J	1300
		2002 04 (Winter)	< 50.0	< 50.0	< 300	42.0 J	42.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 UJ	73.0	680
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 66.0	< 300	< 13.0	< 13.0	4.0 J	15.0	< 13.0	< 50.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	130	2400
	M03-11	2007 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	190	62.0	< 300	70.0	322	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	55.0	< 300	< 50.0	55.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	220	< 50.0	< 300	< 50.0	220	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	98.0 J	< 50.0	98.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	22.0 J	22.0	< 170	< 170	< 170	< 170	< 170	< 670	< 170	< 170	< 170	< 170	< 170	< 170 UJ	< 170	68.0 J
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 36.0	11.0 J	< 36.0	9.1 J	< 36.0	< 140	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
	M03-12	2007 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 40.0	< 300	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	24.0 J	< 50.0	< 300	24.0 J	48.0	0.20 J	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	310	< 50.0	310	0.70	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	< 50.0	< 50.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	79.0	< 50.0	< 300	74.0	153	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	0.69	0.23 J	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M03-10	2003 03 (Fall)	29.0	1.2	6.4	1.1	23.0	6.0
		2003 02 (Summer)	37.0	1.0	5.2	1.1	25.0	7.0
		2003 01 (Spring)	32.0	< 5.0	4.0 J	< 5.0	21.0	< 5.0
		2002 04 (Winter)	67.0	< 2.5	2.5	< 2.5	11.0	14.0
		2002 03 (Fall)	29.0	< 13.0	< 13.0	< 13.0	34.0	4.9 J
	M03-11	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 170	< 170	< 170	< 170	< 170	< 170
		2002 03 (Fall)	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
	M03-12	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-12	2003 04 (Winter)	< 190	< 280	< 190	< 50.0 UJ	< 280	0.54	0.20 J	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	-	-	-	< 50.0	< 50.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	< 50.0	< 50.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-13	2007 01 (Spring)	< 13.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	70.0 J	< 50.0	70.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	86.0 J	< 50.0	86.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	57.0	< 50.0	< 300	63.0	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	27.0 J	27.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	1.6 J	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	1.5 J	< 6.3
	M03-14	2007 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.10 J	< 0.50 UJ
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M03-12	2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-13	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
	M03-14	2007 01 (Spring)	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-15	2007 01 (Spring)	-	-	-	-	-	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 33.0	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	1500	< 8.3
		2006 03 (Fall)	-	-	-	-	-	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 170	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	13000	9.1 J
		2006 01 (Spring)	-	-	-	-	-	< 130	< 130	< 130	< 130	< 130	< 500	< 130	< 130	< 130	< 130	< 130	< 130	24000	< 130
		2005 02 (Summer)	-	-	-	-	-	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 29.0	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	9.7	20000	< 7.1
		2005 01 (Spring)	-	-	-	-	-	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 400 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	16000 J	< 100 UJ
		2004 04 (Winter)	-	-	-	-	-	< 200	< 200	< 200	< 200	< 200	< 800	< 200	< 200	< 200	< 200	< 200	< 200	31000	< 200
		2004 02 (Summer)	-	-	-	-	-	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 330	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	20000	< 83.0
	M03-16	2007 01 (Spring)	-	-	-	-	-	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 14.0	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	580	1.2 J
		2006 03 (Fall)	-	-	-	-	-	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	530	1.1
		2006 01 (Spring)	-	-	-	-	-	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 17.0	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	520	< 4.2
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	380	1.1
		2005 01 (Spring)	-	-	-	-	-	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	400	< 2.5
		2004 04 (Winter)	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	340	0.50 J
		2004 02 (Summer)	-	-	-	-	-	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	280	0.50 J
	M03-17	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M04-05	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50
		2005 01 (Spring)	70.0	< 50.0	260 J	30.0 J	360	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50
		2004 04 (Winter)	160	< 50.0	380	< 50.0	540	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.98 J	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.92 J	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M03-15	2007 01 (Spring)	4.5 J	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
		2006 03 (Fall)	26.0 J	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0
		2006 01 (Spring)	49.0 J	< 130	< 130	< 130	< 130	< 130
		2005 02 (Summer)	34.0	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1
		2005 01 (Spring)	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ
		2004 04 (Winter)	< 200	< 200	< 200	< 200	< 200	< 200
		2004 02 (Summer)	32.0 J	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0
	M03-16	2007 01 (Spring)	4.4	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
		2006 03 (Fall)	4.1	0.50 J	< 0.70	< 0.70	< 0.70	0.50 J
		2006 01 (Spring)	4.9	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2005 02 (Summer)	4.4	0.40 J	< 0.50	< 0.50	< 0.50	0.60
		2005 01 (Spring)	2.7	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2004 04 (Winter)	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 02 (Summer)	2.4 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-17	2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M04-05	2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	0.20 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.20 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.20 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	0.20 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	0.20 J	< 1.0	0.41 J	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	0.47 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	0.33 J	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M04-05	2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80 J	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	< 0.20 J
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	< 0.50
		2002 02 (Summer)	480	260	230 J	< 50.0	970	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4	< 0.50
	M04-06	2007 01 (Spring)	< 13.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 78.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2006 01 (Spring)	22.0 J	< 50.0	86.0 J	< 50.0	108	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	68.0	68.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0 UJ	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07B-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	22.0 J	< 50.0	110 J	< 50.0	132	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190 UJ	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	12.0 J	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M04-05	2003 01 (Spring)	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	0.60	< 0.50	0.90	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	0.20 J	< 0.50	0.60	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
	M04-06	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07B-01	2007 01 (Spring)	2.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	4.4	0.40 J	0.30 J	< 0.50	< 0.50	1.4
		2005 01 (Spring)	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	5.4	0.10 J	0.30 J	< 0.50	< 0.50	0.30 J
		2004 02 (Summer)	4.2	0.20 J	0.30 J	< 0.50	< 0.50	0.40 J
		2004 01 (Spring)	0.66 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	2.6	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	4.5	0.34 J	0.36 J	< 0.50	< 1.0	0.71
		2003 02 (Summer)	4.4	0.22 J	0.26 J	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	5.3	0.20 J	0.40 J	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	5.4	0.30 J	0.50 J	< 0.50	< 0.50	0.50 J

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07B-01	2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M11-01	2005 02 (Summer)	39.0 J	< 50.0	< 300	< 50.0	39.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50
		2005 01 (Spring)	180	< 50.0	< 300	< 50.0	180	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	< 0.50
		2004 04 (Winter)	780	100	360	< 50.0	1240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	30.0 J	30.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	< 1.0
		2003 04 (Winter)	< 190	< 280	190	< 50.0	190	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.71 J	< 1.0
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.60 J	< 1.0
		2003 02 (Summer)	140 J	< 280	< 190	< 50.0	140	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4 J	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	13.0 J	13.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50
	M11-04	2007 01 (Spring)	12.0 J	< 50.0	< 300	< 16.0	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 200	88.0	260 J	< 50.0	348	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	69.0	< 50.0	460	< 50.0	529	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	90.0 J	< 50.0	90.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	300	< 50.0	220 J	26.0 J	546	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	88.0	< 50.0	< 300	< 50.0	88.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	80.0	80.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	1700	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 UJ	< 2.5
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M07B-01	2002 02 (Summer)	4.6	0.30 J	0.40 J	< 0.50	< 0.50	0.40 J
	M11-01	2005 02 (Summer)	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	0.80
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.80
		2004 02 (Summer)	0.20 J	0.10 J	< 0.50	< 0.50	< 0.50	0.80
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	0.23 J	< 1.0	< 1.0	< 0.50	< 1.0	0.91
		2003 03 (Fall)	0.32 J	< 1.0	< 1.0	< 0.50	< 1.0	0.76
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	0.57
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.80
		2002 03 (Fall)	0.30 J	0.20 J	< 0.50	< 0.50	< 0.50	0.80
		2002 02 (Summer)	< 0.10 J	0.20 J	< 0.50	< 0.50	< 0.50	0.90
	M11-04	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2002 04 (Winter)	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M11-04	2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M11-05	2007 01 (Spring)	38.0 J	< 50.0	< 300	< 26.0	38.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	32.0 J	< 50.0	< 300	21.0 J	53.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	27.0 J	< 50.0	< 300	< 50.0	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	2000	110	970	27.0 J	3110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1800	110	830	< 50.0	2740	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	210	< 280	< 190	< 50.0	210	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M11-06	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 26.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	< 0.50
		2006 03 (Fall)	27.0 J	< 50.0	< 300	< 50.0	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.070 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.6	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	32.0 J	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.6	< 0.50
		2004 04 (Winter)	38.0 J	< 50.0	< 300	< 50.0	38.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0
		2003 04 (Winter)	< 190	< 290	< 190	29.0 J	29.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	< 1.0
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.30 J	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.72 J	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M11-04	2002 02 (Summer)	< 0.50	< 0.50	< 0.10 J	< 0.50	< 0.50	< 0.50
	M11-05	2007 01 (Spring)	0.080 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M11-06	2007 01 (Spring)	0.60	0.10 J	< 0.50	< 0.50	< 0.50	0.70
		2006 03 (Fall)	1.4	< 0.50	< 0.50	0.10 J	< 0.50	0.20 J
		2006 01 (Spring)	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	0.80	0.20 J	< 0.50	0.20 J	< 0.50	2.8
		2005 01 (Spring)	0.50	< 0.50	0.10 J	< 0.50	< 0.50	0.70
		2004 04 (Winter)	0.60	0.10 J	0.20 J	< 0.50	< 0.50	3.7
		2004 02 (Summer)	0.50	0.10 J	< 0.50	0.10 J	< 0.50	1.9
		2004 01 (Spring)	0.53 J	< 1.0	< 1.0	< 0.50	< 1.0	0.54
		2003 04 (Winter)	0.69 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	0.66 J	< 1.0	< 1.0	< 0.50	< 1.0	2.8
		2003 02 (Summer)	0.47 J	< 1.0	< 1.0	< 0.50	< 1.0	2.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M11-06	2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8 J	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MBG-3	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	380	< 50.0	270 J	63.0	713	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 200 UJ	< 300 UJ	< 200 UJ	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW360-1	2007 01 (Spring)	< 50.0	140	< 300	1300	1440	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 67.0	< 17.0	3.7 J	220	< 6.1	59.0	< 17.0	2900	16.0 J
		2006 01 (Spring)	34.0 J	50.0	< 300	970	1050	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 67.0	< 17.0	< 17.0	220	5.4 J	53.0	< 17.0	2500	13.0 J
		2005 02 (Summer)	< 50.0	180	< 300	1100	1280	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 80.0	< 20.0	< 20.0	220	5.3 J	56.0	< 20.0	2400	14.0 J
		2005 01 (Spring)	420	< 50.0	320	1200	1940	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 40.0	< 10.0	< 10.0	220	5.4 J	55.0	< 10.0	2200	9.2 J
		2004 04 (Winter)	420	140	360	980	1900	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 50.0	< 13.0	< 13.0	190	4.5 J	43.0	< 13.0	2000	7.6 J
		2004 02 (Summer)	25.0 J	150	< 300	1200	1380	1.4 J	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	< 6.3	260	6.3	55.0	2.8 J	1900	6.6
		2004 01 (Spring)	< 190	< 280	< 190	1300	1300	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 50.0	< 10.0	240	5.4 J	54.0	2.5 J	2100	8.5 J
		2003 04 (Winter)	< 190	< 280	< 190	1200	1200	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	1.1	210	5.5	46.0	2.3	1200	6.5
		2003 03 (Fall)	< 200	< 290	< 200	1400	1400	< 0.50	< 1.0	< 1.0	< 1.0	0.22 J	< 2.0	< 5.0	1.2	260	5.5	56.0	2.5	2400 J	9.3
		2003 02 (Summer)	< 190 UJ	< 280	< 190	1000	1000	< 0.50	< 1.0	< 1.0	< 1.0	0.26 J	< 2.0	< 5.0	1.2	220	4.9	40.0	2.4	1800	6.2
		2003 01 (Spring)	< 50.0	100	< 300	960	1060	4.7 J	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	1.6 J	220	3.2 J	47.0	3.1 J	2100 J	9.2
		2002 04 (Winter)	< 50.0	< 50.0	< 300	1100	1100	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	< 6.3	240	4.5 J	48.0	3.0 J	2300	4.9 J
		2002 03 (Fall)	< 50.0	< 50.0	< 300	860	860	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	1.3 J	200	3.7 J	43.0	2.9 J	2100	5.4
		2002 02 (Summer)	680	180	970	940	2770	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	< 6.3	190	3.8 J	41.0	< 6.3	2200	6.6
	MW360-2	2006 03 (Fall)	30.0 J	< 50.0	< 300	37.0 J	67.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	0.40 J	1.1	< 0.70	0.80	< 0.70	9.6	15.0
		2006 01 (Spring)	49.0 J	< 50.0	81.0 J	< 50.0	130	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	1.2 J	< 2.5	0.80 J	< 2.5	14.0	35.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	M11-06	2003 01 (Spring)	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	1.0
		2002 04 (Winter)	0.50	0.20 J	< 0.50	< 0.20 J	< 0.50	4.2
		2002 03 (Fall)	0.50	0.20 J	0.20 J	0.20 J	< 0.50	2.3
		2002 02 (Summer)	0.50 J	0.30 J	0.20 J	0.20 J	< 0.50	4.2
	MBG-3	2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW360-1	2007 01 (Spring)	420	140	14.0 J	< 17.0	< 17.0	3.7 J
		2006 01 (Spring)	420	110	14.0 J	< 17.0	< 17.0	< 17.0
		2005 02 (Summer)	320	79.0	12.0 J	< 20.0	< 20.0	< 20.0
		2005 01 (Spring)	350	87.0	13.0	< 10.0	< 10.0	< 10.0
		2004 04 (Winter)	320	74.0	12.0 J	< 13.0	< 13.0	< 13.0
		2004 02 (Summer)	220	48.0	13.0	< 6.3	< 6.3	1.6 J
		2004 01 (Spring)	220	61.0	13.0	< 5.0	< 10.0	3.8 J
		2003 04 (Winter)	190	42.0	13.0	< 0.50	< 1.0	1.9
		2003 03 (Fall)	190	48.0	14.0	< 0.50	< 1.0	1.8
		2003 02 (Summer)	140	28.0	13.0	< 0.50	< 1.0	1.9
		2003 01 (Spring)	130	21.0	12.0	< 6.3	< 6.3	3.6 J
		2002 04 (Winter)	110	20.0	13.0	< 6.3	< 6.3	< 6.3
		2002 03 (Fall)	110	20.0	15.0	< 5.0	< 5.0	< 5.0
		2002 02 (Summer)	77.0	34.0	16.0	< 6.3	< 6.3	< 6.3
	MW360-2	2006 03 (Fall)	0.50 J	< 0.70	1.9	0.20 J	0.30 J	0.30 J
		2006 01 (Spring)	1.5 J	< 2.5	6.7	0.90 J	0.50 J	< 2.5

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW360-2	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	1.4	< 0.50	0.80	0.10 J	19.0	44.0
		2005 01 (Spring)	81.0	< 50.0	110 J	< 50.0	191	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	0.30 J	1.3	< 1.3	< 1.3	< 1.3	20.0	40.0
		2004 04 (Winter)	1100	690	< 300	50.0	1840	0.40 J	< 0.50	< 0.50	< 0.50	0.20 J	< 2.0	< 0.50	1.0	1.0	< 0.50	0.40 J	< 0.50	3.5	4.8
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	1.3	< 0.50	0.80	0.10 J	18.0	41.0
		2004 01 (Spring)	< 190	< 290	< 190	24.0 J	24.0	0.44 J	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	< 5.0	0.56 J	1.2	< 1.0	0.63 J	< 1.0	12.0	25.0
		2003 04 (Winter)	150 J	< 280	< 190	88.0	238	0.83	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	1.3	0.95 J	< 1.0	0.30 J	< 1.0	3.6	7.2
		2003 03 (Fall)	< 200 UJ	< 290 UJ	< 200 UJ	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.39 J	1.4	< 1.0	0.62 J	< 1.0	30.0	110
		2003 02 (Summer)	< 190 UJ	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.29 J	0.97 J	< 1.0	0.41 J	< 1.0	24.0	51.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	44.0 J	44.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	1.2	< 0.50	0.80	0.20 J	39.0 J	64.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	28.0 J	28.0	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	1.0	1.1	< 0.50	0.60	< 0.50	7.3	13.0
		2002 03 (Fall)	26.0 J	< 50.0	< 300	< 50.0	26.0	0.30 J	0.10 J	0.50 J	1.7	0.60	< 2.0	< 0.50	0.60	1.2	0.070 J	0.60	0.20 J	30.0	77.0
		2002 02 (Summer)	140	52.0	160 J	< 50.0	352	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	29.0	71.0
	MW360-3	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 30.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.10	< 0.50	0.20 J	< 0.50
		2006 03 (Fall)	< 170	< 50.0	260 J	< 50.0	260	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	21.0 J	< 50.0	< 300	< 50.0	21.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	91.0 J	< 50.0	91.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	170	< 50.0	310	< 50.0	480	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	11.0	< 0.50
		2004 04 (Winter)	79.0	< 50.0	150 J	< 50.0	229	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	120	< 50.0	220 J	< 50.0	340	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	MW360-2	2005 02 (Summer)	1.2	0.30 J	7.2	0.80	0.60	< 0.50
		2005 01 (Spring)	1.4	< 1.3	4.8	0.50 J	0.60 J	< 1.3
		2004 04 (Winter)	0.80	0.60	0.50	< 0.50	0.10 J	1.1
		2004 02 (Summer)	1.6	0.30 J	4.2	0.40 J	0.80	0.30 J
		2004 01 (Spring)	1.5	1.2	2.9	< 0.50	0.65 J	3.9
		2003 04 (Winter)	2.3	3.0	1.6	< 0.50	0.39 J	7.6
		2003 03 (Fall)	1.8	0.42 J	4.8	0.30 J	0.94 J	0.34 J
		2003 02 (Summer)	1.3	0.23 J	3.4	< 0.50	0.69 J	< 0.50
		2003 01 (Spring)	1.4	0.20 J	4.3	< 0.50	1.2	< 0.50
		2002 04 (Winter)	1.4	0.80	1.4	< 0.50	0.50	3.6
		2002 03 (Fall)	1.9	0.40 J	4.3	0.20 J	0.90	0.70
		2002 02 (Summer)	1.1	< 1.0	3.3	< 1.0	1.3	< 1.0
	MW360-3	2007 01 (Spring)	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.60	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FMBZ	MW360-4	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 33.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.8	0.60	1.5	< 0.080	< 0.50	< 0.50	46.0	0.70
		2006 01 (Spring)	< 50.0	< 50.0	< 300	92.0	92.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	0.50 J	1.0	3.3	< 1.0	0.70 J	< 1.0	180	1.5
		2005 02 (Summer)	< 50.0	< 50.0	< 300	150	150	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	1.3	4.1	< 1.0	1.0	< 1.0	270	2.1
		2005 01 (Spring)	58.0	< 50.0	140 J	170	368	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	1.0 J	4.2	< 2.5	< 2.5	< 2.5	270	1.6 J
		2004 04 (Winter)	46.0 J	< 50.0	< 300	130	176	0.60 J	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	1.4 J	5.7	< 2.5	1.3 J	< 2.5	270	2.2 J
		2004 02 (Summer)	< 50.0	< 50.0	< 300	140	140	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	1.2	5.0	< 1.0	1.1	< 1.0	180	1.7
		2004 01 (Spring)	< 190	< 280	120 J	90.0	210	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	1.1	5.1	< 1.0	0.89 J	< 1.0	310	1.8
		2003 04 (Winter)	< 190	< 280	690	80.0	770	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	1.1	4.0	< 1.0	0.90 J	< 1.0	200 J	1.6
		2003 03 (Fall)	< 200 UJ	< 290 UJ	< 200 UJ	23.0 J	23.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	1.6	6.3	< 1.0	1.4	< 1.0	440	3.7
		2003 02 (Summer)	< 190	< 280	< 190	160	160	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	1.4	5.6	< 1.0	1.2	< 1.0	360	2.7
		2003 01 (Spring)	< 50.0	< 50.0	< 300	170	170	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 3.3	< 0.80	1.1	5.1	< 0.80	1.1	< 0.80	330	1.9
		2002 04 (Winter)	< 50.0	< 50.0	< 300	130	130	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	1.0	4.3	< 0.70	1.3	1.3 J	220	1.1
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 72.0	< 300	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	2.0	4.0	0.10 J	1.5	< 0.50	170	1.4
		2002 02 (Summer)	100	< 50.0	96.0 J	190	386	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	1.6	5.4	< 1.3	1.8	< 1.3	380	2.1
	MW97-3	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 21.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 76.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	68.0	< 50.0	170 J	33.0 J	271	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	94.0	< 50.0	150 J	24.0 J	268	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 04 (Winter)	32.0 J	< 50.0	220 J	< 50.0	252	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	0.40 J	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	MW360-4	2007 01 (Spring)	27.0	2.0	0.80	< 0.50	< 0.50	0.20 J
		2006 01 (Spring)	78.0	7.3	1.3	< 1.0	< 1.0	1.2
		2005 02 (Summer)	110	7.5	2.1	< 1.0	< 1.0	1.1
		2005 01 (Spring)	100	4.8	2.2 J	< 2.5	< 2.5	< 2.5
		2004 04 (Winter)	120	7.2	1.9 J	< 2.5	< 2.5	0.80 J
		2004 02 (Summer)	93.0	9.0	1.4	< 1.0	< 1.0	2.3
		2004 01 (Spring)	98.0	3.6	2.1	< 0.50	< 1.0	2.4
		2003 04 (Winter)	110 J	7.7	1.4	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	180	7.0	3.2	< 0.50	< 1.0	1.7
		2003 02 (Summer)	150	8.1	2.6	< 0.50	< 1.0	3.6
		2003 01 (Spring)	110	4.8	2.4	< 0.80	< 0.80	3.0
		2002 04 (Winter)	71.0	5.0	1.6	< 0.70	< 0.70	0.60 J
		2002 03 (Fall)	91.0	14.0	1.4	< 0.50	< 0.50	3.5
		2002 02 (Summer)	130	14.0	2.5	< 1.3	< 1.3	8.7
	MW97-3	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW97-3	2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.50 J	1.7	0.60	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW01	2007 01 (Spring)	11.0 J	< 50.0	< 300	1700	1710	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	5400	6300	270 J	2800	14800	< 0.70	< 0.70	0.10 J	< 0.70	< 0.70	< 2.9	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70
		2006 01 (Spring)	15000	18000	150 J	3100 J	36300	5.6	0.090 J	3.0	< 0.50	< 0.50	1.4 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW02	2007 01 (Spring)	67.0	450	< 300	1700	2220	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	1500	1500	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.7	< 0.50
		2006 01 (Spring)	77.0	250	88.0 J	1500 J	1920	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	OU2B-MW03	2007 01 (Spring)	43.0 J	< 50.0	< 300	470	513	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.080 J	< 0.070	< 0.080	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	750	750	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	48.0 J	< 50.0	< 300	670 J	718	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW04	2007 01 (Spring)	26.0 J	< 50.0	< 300	1600	1630	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.10	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	23.0 J	< 50.0	< 300	1300	1320	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	1800 J	1800	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.080 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW05	2007 01 (Spring)	< 50.0	< 50.0	< 300	88.0	88.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.4	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 88.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	68.0	2.0
		2006 01 (Spring)	< 50.0	< 50.0	< 300	110 J	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	WA-8	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	87.0	< 50.0	180 J	64.0	331	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 250	330	< 1500	92.0	422	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	23.0 J	23.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 03 (Fall)	< 190	< 280	220	< 50.0	220	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 50.0	< 50.0	< 300	32.0 J	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	MW97-3	2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW01	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW02	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	OU2B-MW03	2007 01 (Spring)	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW04	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW05	2007 01 (Spring)	1.3	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	1.1	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.80	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
	WA-8	2005 02 (Summer)	< 0.50 UJ	< 0.50 UJ	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	WA-8	2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-01	2007 01 (Spring)	-	-	-	91.0	91.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	35.0 J	< 50.0 UJ	< 300 UJ	180	215	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	140	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	270 J	170	440	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	230	230	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	180	180	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	130	130	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	100	100	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	270	270	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	110	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	D03-02	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2 J	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-03	2007 01 (Spring)	-	-	-	-	-	< 0.50	0.090 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-04	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	18.0
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	WA-8	2002 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
SWBZ	D03-01	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	-
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-02	2007 01 (Spring)	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	3.0	0.30 J	< 0.50	< 0.50	< 0.50	7.5
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-03	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-04	2007 01 (Spring)	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMU	D03-04	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.1
	D04-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 19.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-02	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	36.0 J	< 50.0	65.0 J	< 50.0	101	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	99.0	99.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0 UJ	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-03	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	24.0 J	< 50.0 UJ	< 300 UJ	80.0	104	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	22.0 J	22.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
SWBZ	D03-04	2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-01	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-02	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-03	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons		
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D04-03	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	4.8	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	0.40 J	0.40 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D11-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	63.0	< 50.0	< 300	100	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	320	< 50.0	2100	< 50.0	2420	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	27.0 J	< 50.0	450	< 50.0	477	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	69.0	< 50.0	230 J	< 50.0	299	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	180 J	< 50.0	180	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-3

Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons					
			cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
SWBZ	D04-03	2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	0.51 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D11-01	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	-
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-4
Groundwater Sample Analytical Results: 1,4-Dioxane at Operable Unit 2B - IR Site 3 Group
Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	UG/L
		MCL:	**NA**
		BV:	**NA**
	Well Number	Event ***AWQC:***	**NA**
FWBZ	M03-10	2007 01 (Spring)	**0.33 J**
FWBZ	M03-15	2007 01 (Spring)	< 0.96
FWBZ	M03-16	2007 01 (Spring)	< 0.96
FWBZ	MW360-1	2007 01 (Spring)	**73.0**
FWBZ	MW360-4	2007 01 (Spring)	< 0.94

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	372-MW1	2007 01 (Spring)	0.52 J	1.2 J	-	< 2.0	0.28 J	< 0.40	-	< 10.0	0.29 J	-	< 0.20	-	0.75 J	< 5.0	< 0.19	< 5.0	-	11.0 J	-
		2006 01 (Spring)	0.33 J	< 5.0	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	1.9 J	7.0	-	< 20.0	-
		2005 02 (Summer)	0.66 J	2.1 J	100	< 2.0	< 5.0	< 10.0	0.049 J	1.7 J	< 3.0	23.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.3 J	1.8 J	2.6 J	< 100
		2004 04 (Winter)	0.42 J	< 5.0	170	< 2.0	< 5.0	< 10.0	< 1.0	2.8 J	< 3.0	23.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	5.4 J	< 20.0	< 100
		2004 02 (Summer)	< 1.0	4.4 J	83.0	< 1.0	< 5.0	< 10.0	< 1.0	1.2	0.21 J	17.0	0.054 J	0.83 J	0.84 J	< 5.0	< 1.0	< 5.0	2.4 J	20.0	3.1 J
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	102	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	3.7 J	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	7.9 J	< 200
		2003 02 (Summer)	< 50.0	< 50.0	85.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	15.3	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.8 J	< 20.0	< 200
		2002 02 (Summer)	0.71 J	3.8 J	82.0	< 2.0	< 5.0	< 10.0	0.068 J	< 10.0	0.045 J	22.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	68.0 J
	37-MJ-MW1	2005 02 (Summer)	1.0	20.0	14.0	< 2.0	< 5.0	< 10.0	0.29 J	2.9 J	< 3.0	400	< 0.20	< 20.0	< 20.0	1.7 J	< 5.0	< 5.0	1.3 J	**200**	55.0 J
		2004 04 (Winter)	0.19 J	**28.0**	42.0	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	< 3.0	1300	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100
		2004 02 (Summer)	0.16 J	**21.0**	14.0	< 1.0	< 1.0	0.71 J	< 1.0	0.32 J	0.22 J	310	< 0.20	< 20.0	0.73 J	< 5.0	< 1.0	< 1.0	< 10.0	< 2.8	< 50.0
		2003 04 (Winter)	< 5.0 UJ	**22.1 J**	35.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	758	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	**22.8 J**	15.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	397	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.9 J	12.2 J	< 200
		2002 04 (Winter)	0.24 J	**21.0**	< 30.0	< 2.0	< 5.0	< 10.0	0.095 J	< 10.0	< 3.0	510	< 0.20	< 20.0	0.25 J	< 5.0	< 5.0	< 2.0	1.0 J	4.9 J	8.9 J
		2002 02 (Summer)	0.31 J	**25.0**	26.0	< 2.0	< 5.0	< 10.0	0.11 J	0.15 J	0.14 J	610	< 0.20	1.1 J	< 20.0	< 5.0	< 5.0	4.2	0.40 J	< 20.0	< 100
	398-MW4	2007 01 (Spring)	0.88 J	**51.0**	-	< 2.0	< 5.0	< 0.56	-	0.87 J	< 3.4	-	< 0.20	-	1.0 J	0.45 J	< 5.0	< 5.0	-	7.8 J	-
		2006 03 (Fall)	0.40 J	2.3 J	-	0.26 J	0.19 J	< 10.0	-	1.2 J	0.48 J	-	< 0.20	-	< 20.0	0.31 J	0.16 J	0.45 J	-	**51.0**	-
		2006 01 (Spring)	< 1.0	3.5 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	2.8 J	6.9	-	< 20.0	-
		2005 02 (Summer)	0.21 J	2.2 J	150	< 2.0	< 5.0	0.79 J	0.18 J	0.78 J	< 3.0	560	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	5.8 J	< 100
		2004 04 (Winter)	< 1.0	< 5.0	84.0	< 2.0	< 5.0	< 10.0	0.17 J	< 10.0	< 3.0	370	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.82 J	11.0 J	< 100
		2004 02 (Summer)	0.30 J	1.1	120	< 1.0	< 1.0	1.0 J	0.29 J	0.77 J	0.30 J	550	< 0.20	< 20.0	1.5	< 5.0	< 1.0	< 1.0	< 10.0	15.0 J	< 50.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	142	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	712	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	127	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	709	< 0.40	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2002 04 (Winter)	< 50.0	5.3	< 140	< 2.0	< 5.0	1.2 J	0.24 J	0.079 J	< 3.0	650	< 0.20	< 20.0	1.6 J	5.2	< 5.0	< 2.0	1.0 J	19.0 J	11.0 J
		2002 02 (Summer)	0.15 J	7.0	120 J	< 2.0	< 5.0	< 10.0	0.29 J	0.50 J	0.18 J	520 J	< 0.20	2.9 J	1.6 J	4.2 J	< 5.0	< 2.0	< 10.0	3.5 J	86.0 J
	M03-04	2007 01 (Spring)	0.80 J	**55.0**	-	< 2.0	< 5.0	2.1 J	-	< 10.0	2.4 J	-	< 0.20	-	5.8 J	0.42 J	< 5.0	< 5.0	-	18.0 J	-
		2006 03 (Fall)	0.93 J	**54.0**	-	< 2.0	< 5.0	< 10.0	-	< 10.0	2.2 J	-	0.028 J	-	< 20.0	0.68 J	< 5.0	< 5.0	-	3.6 J	-
		2006 01 (Spring)	0.17 J	**58.0**	-	0.30 J	< 5.0	1.5 J	-	< 10.0	< 3.0	-	< 0.20	-	1.7 J	< 5.0	< 5.0	2.4 J	-	< 20.0	-
		2005 02 (Summer)	1.1	**68.0**	460	< 2.0	< 5.0	1.0 J	0.32 J	1.4 J	< 3.0	680	< 0.20	< 20.0	3.4 J	< 5.0	< 5.0	< 5.0	< 10.0	20.0	< 100
		2004 04 (Winter)	0.69 J	**45.0**	530	< 2.0	< 5.0	< 10.0	0.44 J	< 10.0	6.3	790	< 0.20	< 20.0	2.5 J	< 5.0	< 5.0	< 5.0	< 10.0	9.9 J	< 100
		2004 02 (Summer)	3.3	**120**	440	< 1.0	< 5.0	0.48 J	0.36 J	1.4	**13.0**	420	< 0.20	5.6	5.5	< 5.0	< 1.0	< 5.0	9.7 J	< 1.0	< 50.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA
FWBZ	372-MW1	2007 01 (Spring)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	< 100	22.0	3.2	0.91	17.0
		2004 04 (Winter)	< 100	43.0	5.3	1.1	18.0
		2004 02 (Summer)	36.0 J	24.0	3.3	1.3	12.0
		2003 04 (Winter)	< 100 UJ	32.2	3.8	< 0.50	11.2
		2003 02 (Summer)	< 100	24.5	2.9	0.67	9.1 J
		2002 02 (Summer)	< 100	22.0	3.1	0.94	13.0
	37-MJ-MW1	2005 02 (Summer)	600	19.0	9.0	3.8	7.4
		2004 04 (Winter)	3100	51.0	26.0	6.9	13.0
		2004 02 (Summer)	660 J	17.0	9.0	4.1	8.0
		2003 04 (Winter)	1340	47.5	22.7	< 7.0	16.8
		2003 02 (Summer)	837	20.2	9.3	3.0 J	6.6
		2002 04 (Winter)	830	30.0	14.0	7.4	23.0
		2002 02 (Summer)	1400	26.0	12.0	5.1	8.4
	398-MW4	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	1800	40.0	37.0	44.0	850
		2004 04 (Winter)	1400	40.0	26.0	30.0	480
		2004 02 (Summer)	1600 J	34.0	49.0	55.0	1000
		2003 04 (Winter)	2790	44.3	50.3	< 63.4	1130
		2003 02 (Summer)	2370	43.3	50.7	46.0 J	895
		2002 04 (Winter)	1800	42.0	55.0	62.0 J	1200
		2002 02 (Summer)	1200	39.0	50.0 J	49.0	960
	M03-04	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	**9500**	56.0	86.0	74.0	1500
		2004 04 (Winter)	**7800**	73.0	120	85.0	2100
		2004 02 (Summer)	2700	60.0	98.0	82.0	1900

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	M03-04	2003 04 (Winter)	< 5.0 UJ	78.8	624	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	7.7 J	536	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	133	733	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	18.6	519	< 0.40	5.6 J	2.3 J	< 20.0	< 10.0	< 100	2.1 J	< 20.0	< 200
		2002 04 (Winter)	1.4 J	65.0	540	< 2.0	< 5.0	< 10.0	0.45 J	0.49 J	21.0	870	< 0.20	< 20.0	2.0 J	16.0	< 5.0	< 3.9	2.2 J	< 20.0	15.0 J
		2002 02 (Summer)	1.3 J	83.0	880 J	< 2.0	< 5.0	< 10.0	0.48 J	0.99 J	58.0	810 J	< 0.20	2.3 J	2.3 J	7.6	< 5.0	< 2.0	< 10.0	< 20.0	220
	M03-05	2007 01 (Spring)	0.66 J	16.0	-	< 2.0	< 5.0	< 1.6	-	< 10.0	< 3.0	-	< 0.20	-	1.7 J	0.94 J	< 5.0	< 5.0	-	29.0	-
		2006 03 (Fall)	0.40 J	5.6	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	0.28 J	< 5.0	< 5.0	-	6.0 J	-
		2006 01 (Spring)	0.20 J	1.8 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	2.2 J	7.6	-	< 20.0	-
		2005 02 (Summer)	0.62 J	7.7	41.0	< 2.0	< 5.0	1.6 J	18.0	1.4 J	< 3.0	14000	< 0.20	< 20.0	29.0	12.0	4.1 J	< 5.0	< 10.0	< 20.0	< 100
		2004 04 (Winter)	0.48 J	11.0	120	< 2.0	< 5.0	2.1 J	0.52 J	< 10.0	< 3.0	420	< 0.20	6.0 J	2.6 J	3.9 J	< 5.0	< 5.0	7.0 J	7.6 J	< 100
		2004 02 (Summer)	0.36 J	12.0	160	< 1.0	< 5.0	1.6 J	0.51 J	2.0	0.50 J	650	0.061 J	6.1	3.1	< 5.0	< 1.0	< 5.0	3.4 J	6.2	< 50.0
		2003 04 (Winter)	< 5.0	11.3 J	159	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	657	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	12.0 J	< 20.0	< 200
		2003 02 (Summer)	< 50.0	14.9 J	159	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	701	< 0.40	5.5 J	1.6 J	< 20.0	< 10.0	< 100	11.5 J	< 20.0	< 200
		2002 04 (Winter)	< 50.0	6.3	150	< 2.0	< 5.0	< 10.0	0.54 J	0.41 J	< 3.0	530	< 0.20	3.7 J	1.5 J	3.8 J	< 5.0	< 2.0	8.2 J	19.0 J	< 100
		2002 02 (Summer)	1.1 J	24.0	180	< 2.0	< 5.0	11.0 J	0.54 J	0.60 J	< 3.0 UJ	740	< 0.20	5.7 J	1.9 J	8.3 J	< 5.0	1.0 J	10.0 J	< 20.0	120
	M03-06	2007 01 (Spring)	< 0.29	49.0	-	< 2.0	0.073 J	< 0.74	-	< 10.0	< 3.0	-	< 0.20	-	3.8 J	0.58 J	< 5.0	< 5.0	-	25.0	-
		2006 01 (Spring)	< 1.0	62.0	-	< 2.0	< 5.0	1.1 J	-	< 10.0	< 3.0	-	< 0.20	-	4.2 J	< 5.0	< 5.0	3.4 J	-	< 20.0	-
		2005 02 (Summer)	0.40 J	53.0	73.0	0.51 J	< 5.0	< 10.0	0.20 J	< 10.0	< 3.0	57.0	< 0.20	21.0	3.9 J	< 5.0	< 5.0	< 5.0	4.9 J	8.3 J	< 100
		2005 01 (Spring)	0.17 J	47.0	120	< 2.0	< 5.0	1.1 J	0.23 J	0.75 J	< 3.0	81.0	< 0.20	10.0 J	4.1 J	< 5.0	< 5.0	< 5.0	4.6 J	14.0 J	< 100
		2004 04 (Winter)	0.18 J	37.0	85.0	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	< 3.0	47.0	< 0.20	12.0 J	2.1 J	< 5.0	< 5.0	< 5.0	1.2 J	< 20.0	< 100
		2004 02 (Summer)	0.18 J	42.0	98.0	< 1.0	< 1.0	0.70 J	0.15 J	0.49 J	0.20 J	70.0	< 0.20	15.0 J	2.7	< 5.0	< 1.0	< 1.0	< 10.0	5.9 J	6.4 J
		2004 01 (Spring)	2.0 J	50.4	183	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	125	< 0.40	15.5 J	< 20.0	< 20.0	< 10.0	< 5.0	7.3 J	< 20.0	< 200
		2003 04 (Winter)	< 5.0	43.2 J	86.2 J	< 4.0	< 5.0	< 10.0	< 10.0	5.8 J	< 10.0	49.2	< 0.40	16.3 J	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200
		2003 03 (Fall)	3.9 J	63.0	81.8 J	0.38 J	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	49.8	< 0.40	24.8 J	3.2 J	< 20.0	< 10.0	< 5.0	5.4 J	4.9 J	< 200
		2003 02 (Summer)	< 50.0	45.4 J	83.4 J	< 4.0	< 5.0	< 10.0	< 10.0	1.8 J	< 10.0	51.0	< 0.40	13.6 J	2.8 J	< 20.0	< 10.0	< 5.0	2.8 J	< 20.0	< 200
		2003 01 (Spring)	< 1.0	37.0	94.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	61.0	< 0.20	15.0 J	8.1 J	< 5.0	< 5.0	< 1.0	3.8 J	1.8 J	< 100
		2002 04 (Winter)	0.26 J	44.0	93.0 J	0.038 J	< 5.0	< 10.0	0.19 J	< 10.0	< 3.0	47.0	< 0.20	18.0 J	2.7 J	< 5.0	< 5.0	< 2.0	2.9 J	< 20.0	< 100
		2002 03 (Fall)	0.22 J	46.0	72.0	< 2.0	< 5.0	< 10.0	0.15 J	< 10.0	< 3.0	43.0	< 0.20	15.0 J	2.4 J	< 5.0	< 5.0	< 2.0	5.0 J	< 20.0	< 100
		2002 02 (Summer)	0.31 J	44.0	97.0	0.11 J	< 5.0	4.2 J	0.34 J	0.52 J	0.33 J	70.0	< 0.20	20.0 J	2.9 J	-	< 5.0	6.0	3.3 J	5.2 J	67.0 J
	M03-07	2007 01 (Spring)	< 0.15	3.9 J	-	< 2.0	< 5.0	7.7 J	-	< 10.0	< 3.0	-	0.026 J	-	1.9 J	< 5.0	0.087 J	< 5.0	-	15.0 J	-
		2006 03 (Fall)	0.35 J	6.0	-	< 2.0	< 5.0	20.0	-	< 10.0	0.17 J	-	< 0.20	-	< 20.0	0.35 J	< 5.0	< 5.0	-	8.4 J	-
		2006 01 (Spring)	< 1.0	4.2 J	-	< 2.0	< 5.0	5.8 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	1.8 J	-	< 20.0	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	NA	NA	NA	NA
FWBZ	M03-04	2003 04 (Winter)	**10200**	68.7	115	95.9	1880
		2003 02 (Summer)	**8030**	74.0	114	90.0 J	1410
		2002 04 (Winter)	**6900**	78.0	140	80.0 J	2100
		2002 02 (Summer)	3900	93.0	140 J	81.0	2000
	M03-05	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	1800	**650**	**1700**	**430**	**13000**
		2004 04 (Winter)	760	34.0	61.0	56.0	1500
		2004 02 (Summer)	1700	45.0	79.0	72.0	2000
		2003 04 (Winter)	913	51.6	76.6	83.8	1820
		2003 02 (Summer)	1210	56.8	80.8	81.1 J	1380
		2002 04 (Winter)	1400	49.0	61.0	63.0	1500
		2002 02 (Summer)	1900	62.0	82.0	72.0	1700
	M03-06	2007 01 (Spring)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	72.0 J	17.0	8.6	7.9	240
		2005 01 (Spring)	190	36.0	17.0	9.6	360
		2004 04 (Winter)	140	23.0	10.0	8.0	230
		2004 02 (Summer)	180 J	36.0	11.0	8.5	220
		2004 01 (Spring)	304	55.4	23.0	15.0	380
		2003 04 (Winter)	117	26.8	10.5	9.9	229
		2003 03 (Fall)	95.0 J	28.6	10.0	6.7 J	270
		2003 02 (Summer)	107	26.3	10.4	10.3 J	182
		2003 01 (Spring)	330	31.0 J	12.0	8.8	230
		2002 04 (Winter)	260	43.0 J	9.3	8.9	290
		2002 03 (Fall)	110	27.0	7.5	8.1	260
		2002 02 (Summer)	240	32.0	11.0	9.1	250
	M03-07	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	M03-07	2005 02 (Summer)	0.71 J	14.0	250	< 2.0	0.52 J	**15.0**	0.45 J	< 10.0	< 3.0	200	< 0.20	2.1 J	1.3 J	< 5.0	< 5.0	< 5.0	16.0	12.0 J	< 100
		2004 04 (Winter)	0.23 J	4.8 J	230	< 2.0	0.47 J	11.0	0.35 J	< 10.0	< 3.0	220	< 0.20	< 20.0	2.1 J	< 5.0	< 5.0	< 5.0	8.7 J	5.9 J	< 100
		2004 02 (Summer)	2.5	< 1.0	290	< 1.0	< 1.0	**17.0**	0.56 J	2.5	0.26 J	260	< 0.20	< 20.0	4.1	< 5.0	< 1.0	< 1.0	20.0	30.0 J	17.0 J
		2003 04 (Winter)	< 5.0 UJ	12.3 J	326	< 4.0	< 5.0	< 22.1	< 10.0	< 10.0	< 10.0	281	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	6.5 J	275
		2003 02 (Summer)	< 50.0	10.8 J	333	< 4.0	< 5.0	9.9 J	< 10.0	< 10.0	< 10.0	286	< 0.40	< 50.0	2.3 J	< 20.0	< 10.0	< 5.0	10.6 J	< 20.0	276
		2002 04 (Winter)	0.82 J	14.0	330 J	0.11 J	< 5.0	**39.0**	0.80 J	2.4 J	1.4 J	280 J	< 0.20	2.5 J	3.7 J	4.3 J	< 5.0	5.0	**43.0**	1.4 J	110
		2002 02 (Summer)	0.35 J	4.5 J	270	< 2.0	< 5.0	3.4 J	0.42 J	0.58 J	0.98 J	170	< 0.20	< 20.0	2.2 J	1.9 J	< 5.0	< 2.0	3.9 J	3.5 J	71.0 J
	M03-09	2007 01 (Spring)	0.26 J	4.7 J	-	< 2.0	0.23 J	< 0.63	-	< 10.0	< 3.0	-	0.088 J	-	**110**	0.79 J	0.10 J	< 5.0	-	9.2 J	-
		2006 03 (Fall)	0.13 J	3.5 J	-	< 2.0	0.12 J	< 10.0	-	< 10.0	< 3.0	-	0.031 J	-	**90.0**	0.52 J	< 5.0	< 5.0	-	9.0 J	-
		2006 01 (Spring)	0.30 J	8.6	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.17 J	-	< 0.20	-	**110**	< 5.0	1.5 J	**18.0**	-	11.0 J	-
		2005 02 (Summer)	0.43 J	9.7	50.0	< 2.0	< 5.0	< 10.0	**34.0**	1.8 J	< 3.0	**3200**	< 0.20	< 20.0	**95.0**	< 5.0	3.1 J	< 5.0	< 10.0	9.7 J	< 100
		2004 04 (Winter)	0.29 J	5.5	95.0	< 2.0	< 5.0	1.4 J	**37.0**	< 10.0	< 3.0	**3200**	< 0.20	< 20.0	**100**	< 5.0	< 5.0	< 5.0	1.8 J	19.0 J	< 100
		2004 02 (Summer)	1.1	15.0	72.0	< 1.0	0.40 J	3.7 J	**39.0**	23.0	0.38 J	**3100**	< 0.20	1.6 J	**110**	< 5.0	< 1.0	< 5.0	3.4 J	< 1.0	< 50.0
		2003 04 (Winter)	< 25.0 UJ	< 50.0	59.3 J	< 4.0	< 5.0	< 10.0	< 47.9	< 10.0	< 10.0	**3120**	< 0.40	< 50.0	**120**	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	11.2 J	71.8 J	< 4.0	< 5.0	< 10.0	**36.8**	< 10.0	< 10.0	**3860**	< 0.40	< 50.0	**88.8**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.26 J	17.0	89.0	< 0.023 J	< 5.0	< 10.0	**40.0**	6.6 J	0.67 J	**3400**	< 0.20	0.79 J	**100**	**65.0**	< 5.0	< 2.3	0.87 J	< 20.0	31.0 J
		2002 03 (Fall)	0.25 J	< 5.0	84.0	< 2.0	< 5.0	0.67 J	**41.0**	6.2 J	< 3.0	**2800**	< 0.20	0.74 J	**99.0**	< 5.0	< 5.0	< 2.0	< 10.0	**46.0 J**	< 100
	M03-10	2007 01 (Spring)	0.94 J	**28.0**	-	0.52 J	0.46 J	< 0.88	-	< 10.0	0.62 J	-	< 0.20	-	2.5 J	0.96 J	0.51 J	0.61 J	-	**53.0**	-
		2006 03 (Fall)	0.77 J	**30.0 J**	-	0.57 J	0.49 J	< 10.0	-	2.2 J	0.85 J	-	< 0.20	-	2.4 J	0.95 J	0.42 J	1.2 J	-	14.0 J	-
		2006 01 (Spring)	0.50 J	**32.0**	-	< 2.0	< 5.0	< 10.0	-	2.3 J	< 3.0	-	< 0.20	-	2.6 J	< 5.0	2.6 J	1.9 J	-	**97.0**	-
		2005 02 (Summer)	0.71 J	**36.0**	27.0	< 2.0	< 5.0	< 10.0	0.19 J	< 10.0	< 3.0	38.0	< 0.20	3.8 J	1.4 J	< 50.0	< 5.0	< 5.0	**46.0**	10.0 J	< 100
		2004 04 (Winter)	0.48 J	**28.0**	38.0	< 2.0	< 5.0	4.0 J	0.25 J	4.6 J	< 3.0	8.5 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	**51.0**	< 20.0	< 100
		2004 02 (Summer)	0.46 J	**28.0**	35.0	< 1.0	< 1.0	0.20 J	0.22 J	1.3	0.39 J	< 10.0	< 0.20	2.9 J	< 20.0	< 1.0	< 1.0	< 1.0	**43.0**	< 2.0	16.0 J
		2003 04 (Winter)	< 5.0	**35.7 J**	37.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	**52.3**	< 20.0	< 200
		2003 02 (Summer)	< 50.0	**38.0 J**	34.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1.2 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 100	**45.7 J**	< 20.0	< 200
		2002 04 (Winter)	0.90 J	**28.0**	43.0	< 2.0	< 5.0	< 10.0	0.28 J	1.3 J	0.34 J	0.82 J	< 0.20	9.5 J	2.3 J	4.9 J	< 5.0	< 2.5	**37.0**	2.3 J	45.0 J
		2002 03 (Fall)	0.70 J	**29.0**	41.0	< 2.0	< 5.0	< 10.0	0.27 J	0.75 J	< 3.0	9.3 J	< 0.20	11.0 J	1.7 J	3.1 J	< 5.0	< 2.0	**46.0**	5.0 J	< 100
	M03-11	2007 01 (Spring)	< 0.12	4.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.49 J	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	23.0	-
		2006 03 (Fall)	< 1.0	4.8 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	8.0 J	-
		2006 01 (Spring)	0.14 J	4.4 J	-	< 2.0	< 5.0	8.5 J	-	3.7 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	11.0 J	-
		2005 02 (Summer)	0.30 J	8.0	28.0	< 2.0	< 5.0	< 10.0	0.11 J	1.3 J	< 3.0	160	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.63 J	< 20.0	< 100

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA
FWBZ	M03-07	2005 02 (Summer)	**17000**	58.0	44.0	24.0 J	340
		2004 04 (Winter)	**21000**	62.0	23.0	18.0	210
		2004 02 (Summer)	**25000 J**	72.0	25.0	24.0	270
		2003 04 (Winter)	**26800**	76.2	36.7	< 35.0	356
		2003 02 (Summer)	**25900**	79.3	28.4	33.3 J	254
		2002 04 (Winter)	**28000 J**	72.0 J	47.0 J	41.0 J	440
		2002 02 (Summer)	**8700**	62.0	22.0	23.0	280
	M03-09	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	2800	**440**	**1400**	**390**	**12000**
		2004 04 (Winter)	**6900**	**370**	**1200**	**340**	**13000**
		2004 02 (Summer)	6400	**450**	**1500**	**430**	**14000**
		2003 04 (Winter)	4890	**415**	**1800**	**700**	**16000**
		2003 02 (Summer)	**7310**	**480 J**	**1490**	**421 J**	**11100 J**
		2002 04 (Winter)	4200	**420**	**1300**	**370**	**12000**
		2002 03 (Fall)	1900	**410**	**880**	**360**	**8100**
	M03-10	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	36.0 J	4.1	3.4	3.8 J	1000
		2004 04 (Winter)	< 100	3.0	1.6	4.8	1200
		2004 02 (Summer)	< 100	2.9 J	1.1	3.7	1300
		2003 04 (Winter)	< 100	3.4	1.2	3.8	1650
		2003 02 (Summer)	< 100	3.1	1.3	5.1 J	1090
		2002 04 (Winter)	< 100	4.0	2.3	7.4	1000
		2002 03 (Fall)	< 100	3.8	2.0	5.4	1300
	M03-11	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	430	4.3	3.1	10.0	330

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	M03-11	2004 04 (Winter)	< 1.0	11.0	44.0	< 2.0	< 5.0	< 10.0	0.088 J	3.9 J	< 3.0	260	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	2.4 J	6.2 J	< 100
		2004 02 (Summer)	2.7	10.0	41.0	< 1.0	< 1.0	0.37 J	0.11 J	< 1.0	< 1.0	200	0.054 J	5.2	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	2.9	9.6 J
		2003 04 (Winter)	< 5.0	16.0 J	41.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	211	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	21.7 J	51.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	202	< 0.40	< 50.0	2.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.23 J	16.0	47.0	< 2.0	< 5.0	< 10.0	0.43 J	0.53 J	0.33 J	340	< 0.20	3.7 J	2.9 J	1.1 J	< 5.0	< 2.0	2.1 J	1.4 J	150
		2002 03 (Fall)	0.30 J	4.8 J	54.0	< 2.0	< 5.0	0.61 J	0.83 J	0.21 J	< 3.0	140	< 0.20	6.4 J	4.0 J	1.5 J	< 5.0	< 2.0	5.1 J	5.9 J	< 120
	M03-12	2007 01 (Spring)	< 0.31	3.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 0.16	-	< 0.20	-	20.0	< 5.0	< 5.0	< 5.0	-	17.0 J	-
		2006 03 (Fall)	0.18 J	2.5 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.49 J	-	< 0.20	-	18.0 J	< 5.0 UJ	< 5.0	< 5.0	-	3.8 J	-
		2006 01 (Spring)	0.28 J	4.4 J	-	< 2.0	< 5.0	3.2 J	-	2.2 J	< 3.0	-	< 0.20	-	**33.0**	< 5.0	< 5.0	< 5.0	-	20.0 J	-
		2005 02 (Summer)	0.29 J	5.8	73.0	0.66 J	< 5.0	< 10.0	0.20 J	< 10.0	< 3.0	4.5 J	< 0.20	12.0 J	14.0 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100
		2004 04 (Winter)	0.27 J	< 100	100	< 2.0	< 5.0	1.1 J	0.28 J	< 10.0	< 3.0	20.0	< 0.20	10.0 J	10.0 J	< 5.0	< 5.0	< 5.0	< 10.0	6.6 J	< 100
		2004 02 (Summer)	0.55 J	5.2	200	< 1.0	< 1.0	1.1	0.57 J	0.79 J	0.069 J	2.0 J	< 0.20	**16.0 J**	**36.0**	< 5.0	< 1.0	< 1.0	0.94 J	12.0 J	< 50.0
		2003 04 (Winter)	2.4 J	4.9 J	541	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0	-	**16.4 J**	**38.0 J**	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	81.2 J
		2003 02 (Summer)	< 50.0	< 50.0	138	0.33 J	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	16.0	< 0.40	**19.8 J**	**22.3**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.33 J	4.5 J	87.0	< 2.0	< 5.0	< 10.0	0.45 J	1.5 J	0.30 J	12.0	< 0.20	**15.0 J**	7.5 J	0.89 J	< 5.0	< 2.0	3.3 J	5.4 J	19.0 J
		2002 03 (Fall)	0.18 J	3.1 J	220	< 2.0	< 5.0	0.11 J	2.6 J	0.93 J	< 3.0	1200	< 0.20	8.4 J	8.0 J	1.5 J	< 5.0	< 2.0	4.0 J	2.4 J	< 100
	M03-13	2007 01 (Spring)	0.37 J	1.9 J	-	< 2.0	< 5.0	9.0 J	-	< 10.0	< 3.0	-	< 0.20	-	2.5 J	0.46 J	< 5.0	< 5.0	-	< 7.9	-
		2006 03 (Fall)	0.31 J	1.1 J	-	< 2.0	< 5.0	8.8 J	-	1.4 J	0.56 J	-	< 0.20	-	1.4 J	0.41 J	< 5.0	< 5.0	-	17.0 J	-
		2006 01 (Spring)	0.25 J	0.96 J	-	< 2.0	< 5.0	12.0	-	< 10.0	0.24 J	-	< 0.20	-	2.1 J	< 5.0	3.7 J	**17.0**	-	< 20.0	-
		2005 02 (Summer)	0.43 J	6.8	260	< 2.0	< 5.0	4.3 J	0.42 J	1.4 J	< 3.0	10.0	< 0.20	3.9 J	1.4 J	< 5.0	< 5.0	1.3 J	23.0	< 20.0	< 100
		2004 04 (Winter)	0.14 J	3.3 J	72.0	0.50 J	< 5.0	1.1 J	0.21 J	< 10.0	< 3.0	220	< 0.20	3.3 J	5.6 J	< 5.0	< 5.0	< 5.0	2.7 J	10.0 J	< 100
		2004 02 (Summer)	1.8	6.8	81.0	< 1.0	< 5.0	0.88 J	0.22 J	2.7	0.079 J	12.0	< 0.20	3.7 J	2.6	< 5.0	< 1.0	< 5.0	3.8 J	5.6	< 50.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	56.3 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	31.5	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	12.6 J	< 200
		2003 02 (Summer)	< 50.0	8.3 J	54.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	180	< 0.40	5.2 J	6.6 J	< 20.0	< 10.0	< 5.0	3.0 J	< 20.0	< 200
		2002 04 (Winter)	0.13 J	5.9	44.0	< 2.0	< 5.0	< 10.0	0.62 J	0.37 J	0.20 J	570	< 0.20	5.8 J	3.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	8.2 J
		2002 03 (Fall)	0.30 J	< 5.0	37.0	< 2.0	< 5.0	< 10.0	1.2 J	0.22 J	< 3.0	350	< 0.20	4.6 J	5.5 J	< 5.0	< 5.0	< 2.0	3.2 J	3.0 J	< 100
	M03-15	2007 01 (Spring)	< 0.22	1.6 J	150	< 2.0	0.36 J	< 10.0	**65.0**	< 10.0	0.51 J	**8600**	< 0.20	< 0.27	**130**	0.50 J	< 5.0	< 5.0	< 3.3	**55.0**	< 66.0
		2006 03 (Fall)	0.13 J	2.6 J	56.0	< 2.0	0.30 J	< 10.0	**69.0**	0.28 J	0.65 J	**9100 J**	< 0.20	< 20.0	**140**	0.42 J	< 5.0	< 5.0	< 10.0	18.0 J	64.0 J
		2006 01 (Spring)	0.22 J	5.4	60.0	< 2.0	< 5.0	< 10.0	**66.0**	2.8 J	1.7 J	**8100**	< 0.20	< 20.0	**110**	< 5.0	1.2 J	4.9 J	< 10.0	9.7 J	< 100 UJ
	M03-16	2007 01 (Spring)	< 0.20	3.7 J	47.0	< 2.0	0.29 J	< 10.0	**41.0**	< 10.0	0.34 J	**16000**	< 0.20	< 0.94	**62.0**	0.50 J	0.085 J	< 5.0	< 3.5	< 8.5	250
		2006 03 (Fall)	0.21 J	3.0 J	43.0	< 2.0	0.39 J	< 10.0	**43.0**	0.69 J	0.32 J	**17000 J**	< 0.20	< 20.0	**61.0**	0.59 J	< 5.0	< 5.0	< 10.0	24.0	< 100

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA
FWBZ	M03-11	2004 04 (Winter)	500	5.7	4.5	11.0	430
		2004 02 (Summer)	890	5.1 J	3.5	9.8	380
		2003 04 (Winter)	237	3.7	4.4	11.0	492
		2003 02 (Summer)	322	3.5 J	4.2	9.0 J	434 J
		2002 04 (Winter)	480	5.4	6.7	12.0	600
		2002 03 (Fall)	200	8.2	11.0	20.0	870
	M03-12	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	< 100	3.7	4.5	18.0	340
		2004 04 (Winter)	< 100	6.7	15.0	16.0	420
		2004 02 (Summer)	54.0 J	4.3	1.0	25.0	340
		2003 04 (Winter)	< 100 UJ	23.3	8.2	32.1	365
		2003 02 (Summer)	< 100	5.4 J	8.9	29.9 J	493 J
		2002 04 (Winter)	< 100	23.0	28.0	32.0	390
		2002 03 (Fall)	91.0 J	46.0	69.0	6.5	910
	M03-13	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	< 100	9.4	1.5	7.8	12.0
		2004 04 (Winter)	12.0 J	19.0	18.0	3.7	190
		2004 02 (Summer)	39.0 J	14.0	18.0	6.2	200
		2003 04 (Winter)	< 100 UJ	22.0	19.6	4.0	182
		2003 02 (Summer)	< 100	25.4 J	24.0	6.0 J	200 J
		2002 04 (Winter)	< 380	18.0	19.0	3.2	200
		2002 03 (Fall)	63.0 J	19.0	19.0	3.3	190
	M03-15	2007 01 (Spring)	420	**460**	**1600**	**490**	**14000 J**
		2006 03 (Fall)	220	**440 J**	**1500 J**	**460 J**	**15000 J**
		2006 01 (Spring)	140	**480**	**1600**	**460**	**15000**
	M03-16	2007 01 (Spring)	2100	**650**	**2200**	**550**	**16000 J**
		2006 03 (Fall)	1500	**630 J**	**2300 J**	**470 J**	**19000 J**

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	M03-16	2006 01 (Spring)	0.25 J	7.6	34.0	< 2.0	< 5.0	2.0 J	**37.0**	2.6 J	0.22 J	**19000**	< 0.20	< 20.0	**44.0**	3.5 J	2.5 J	< 5.0	< 10.0	< 20.0	< 100 UJ
	M04-05	2006 01 (Spring)	0.26 J	1.6 J	-	< 2.0	< 5.0	**20.0**	-	2.4 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	1.4 J	10.0	-	< 20.0	-
		2005 02 (Summer)	0.86 J	4.9 J	250	< 2.0	< 5.0	**47.0**	0.10 J	5.1 J	< 3.0	33.0	< 0.20	**190**	2.3 J	3.6 J	< 5.0	< 5.0	4.7 J	7.5 J	< 100
		2005 01 (Spring)	0.27 J	< 5.0	200	< 2.0	< 5.0	**25.0**	0.072 J	2.7 J	< 3.0	0.46 J	< 0.20	**170**	6.2 J	5.0	< 5.0	< 5.0	2.7 J	14.0 J	< 100
		2004 04 (Winter)	0.38 J	< 5.0	320	< 2.0	< 5.0	**73.0**	0.12 J	7.5 J	< 3.0	54.0	< 0.20	**250**	< 20.0	< 5.0	< 5.0	< 5.0	3.1 J	9.5 J	< 100
		2004 02 (Summer)	0.42 J	1.9	380	< 1.0	< 1.0	**71.0**	0.13 J	6.6	0.29 J	58.0	< 0.20	**350**	3.5	< 5.0	< 1.0	< 1.0	5.5 J	**37.0 J**	< 50.0
		2004 01 (Spring)	< 5.0	< 50.0	263	< 4.0	< 5.0	**43.9**	5.1 J	5.4 J	< 10.0	< 10.0	< 0.40	**167**	< 20.0	< 20.0	< 10.0	< 5.0	19.1 J	9.9 J	< 200
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	322	< 4.0	< 5.0	**81.6 J**	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0	-	**231 J**	11.5 J	< 20.0 UJ	< 10.0	-	19.8 J	21.8	< 200
		2003 03 (Fall)	< 5.0	< 50.0	414	< 4.0	< 5.0	**107**	< 10.0	5.9 J	< 10.0	30.0	< 0.40	**372**	3.3 J	< 20.0	< 10.0	< 5.0	< 50.0	5.5 J	< 200
		2003 02 (Summer)	< 50.0	< 50.0	383	< 4.0	< 5.0	**115**	< 10.0	6.2 J	< 10.0	21.5	< 0.40	**335**	3.0 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2003 01 (Spring)	0.34 J	< 5.0	270	< 2.0	< 5.0	**65.0**	< 10.0	3.9 J	< 3.0	0.95 J	< 0.20	**260**	3.1 J	< 5.0	< 5.0	< 1.0	3.6 J	9.4 J	4.7 J
		2002 04 (Winter)	< 50.0	1.4 J	290	< 2.0	0.093 J	**19.0**	0.24 J	2.7 J	< 3.0	12.0	< 0.23	**310 J**	5.0 J	1.3 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100
		2002 03 (Fall)	0.35 J	< 5.0	380	< 2.0	< 5.0	**83.0**	0.12 J	3.8 J	< 3.0	8.9 J	< 0.20	**390**	2.8 J	1.0 J	< 5.0	< 2.0	6.3 J	7.3 J	< 100
		2002 02 (Summer)	0.44 J	1.6 J	340	< 2.0	< 5.0	**87.0**	0.11 J	4.5 J	< 3.0	9.8 J	< 0.20	**340**	3.2 J	1.0 J	< 5.0	< 2.0	3.9 J	10.0 J	< 100
	M04-06	2007 01 (Spring)	0.35 J	1.8 J	-	< 2.0	1.3 J	< 0.41	-	< 10.0	< 3.0	-	< 0.20	-	9.2 J	< 5.0	< 5.0	< 5.0	-	16.0 J	-
		2006 03 (Fall)	0.41 J	2.5 J	-	< 2.0	2.0 J	< 10.0	-	6.4 J	< 3.0	-	< 0.20	-	7.9 J	< 5.0	< 5.0	< 5.0	-	14.0 J	-
		2006 01 (Spring)	0.54 J	< 5.0	-	< 2.0	**59.0**	< 10.0	-	9.6 J	0.52 J	-	< 0.20	-	15.0 J	< 5.0	3.2 J	13.0	-	**110**	-
		2005 02 (Summer)	0.94 J	8.0	83.0	0.26 J	0.72 J	< 10.0	1.0	8.4 J	< 3.0	880	< 0.20	7.0 J	12.0 J	4.0 J	< 5.0	< 5.0	8.3 J	18.0 J	< 100
		2004 04 (Winter)	0.48 J	< 5.0	110	< 2.0	0.40 J	< 10.0	0.28 J	6.4 J	< 3.0	150	< 0.20	2.4 J	5.8 J	< 5.0	< 5.0	< 5.0	7.1 J	6.9 J	< 100
		2004 02 (Summer)	0.39 J	3.2	160	< 1.0	0.70 J	0.43 J	0.35 J	4.8	< 1.0	740	< 0.20	< 20.0	11.0	< 5.0	< 1.0	< 1.0	8.6 J	15.0 J	< 50.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	148	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	5.6 J	< 10.0 UJ	90.7	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	19.7 J	< 200
		2003 02 (Summer)	< 50.0	< 50.0	188	< 4.0	< 5.0	< 10.0	< 10.0	4.6 J	< 10.0	656	< 0.40	< 50.0	9.8 J	< 20.0	< 10.0	< 5.0	6.0 J	< 20.0	< 200
		2002 04 (Winter)	0.39 J	3.9 J	110	< 2.0	0.18 J	< 10.0	0.96 J	5.1 J	< 3.0	860	< 0.20	2.4 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.5	5.4 J	1.9 J	< 100
		2002 02 (Summer)	0.52 J	3.8 J	120	< 2.0	0.30 J	2.0 J	0.74 J	6.2 J	0.78 J	440	< 0.20	< 20.0	8.7 J	< 5.0	< 5.0	< 2.0	9.8 J	3.2 J	16.0 J
	M07B-01	2007 01 (Spring)	0.24 J	4.8 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	1.2 J	< 5.0	< 5.0	< 5.0	-	18.0 J	-
		2006 01 (Spring)	-	1.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.21 J	-	< 0.20	-	< 20.0	< 5.0	2.1 J	4.5 J	-	< 20.0	-
		2005 02 (Summer)	0.29 J	6.3	140	< 2.0	< 5.0	< 10.0	0.17 J	1.1 J	< 3.0	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.4 J	< 10.0	5.5 J	< 100
		2004 04 (Winter)	0.17 J	< 5.0	150	< 2.0	< 5.0	< 10.0	0.27 J	< 10.0	< 3.0	230	< 0.20	< 20.0	< 20.0	< 5.0	3.9 J	< 5.0	< 10.0	< 20.0	8.2 J
		2004 02 (Summer)	0.14 J	< 17.0	130	0.33 J	< 5.0	1.3 J	0.27 J	< 10.0	0.43 J	150	< 0.20	3.5 J	4.0 J	< 5.0	< 5.0	< 1.0	< 10.0	19.0 J	< 50.0
		2003 04 (Winter)	< 5.0 UJ	5.6 J	58.2 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	6.9 J	< 200
		2003 02 (Summer)	< 50.0	< 50.0	91.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	75.9	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA
FWBZ	M03-16	2006 01 (Spring)	1100	**720**	**2300**	**530**	**19000**
	M04-05	2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	< 100	72.0	14.0	12.0 J	26.0
		2005 01 (Spring)	< 100	73.0	13.0	9.2	26.0
		2004 04 (Winter)	< 100	100	22.0	16.0	42.0
		2004 02 (Summer)	22.0 J	99.0	21.0	18.0	44.0
		2004 01 (Spring)	< 100	95.3	17.0	12.8	30.7
		2003 04 (Winter)	< 100 UJ	99.9	21.0	14.6	45.9
		2003 03 (Fall)	< 100	111	24.8	19.4 J	46.7
		2003 02 (Summer)	< 100	111 J	23.5	13.7 J	38.4 J
		2003 01 (Spring)	240	80.0	18.0	14.0	28.0
		2002 04 (Winter)	300	96.0	24.0	16.0	54.0
		2002 03 (Fall)	190	100	24.0	18.0	49.0
		2002 02 (Summer)	250	100	23.0	17.0	48.0
	M04-06	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	13.0 J	68.0	16.0	9.7	130
		2004 04 (Winter)	18.0 J	120	18.0	8.3	110
		2004 02 (Summer)	53.0 J	140	23.0	10.0	81.0
		2003 04 (Winter)	< 100 UJ	**161**	23.3	7.8	28.7
		2003 02 (Summer)	26.9 J	**200**	31.8	10.0 J	37.8
		2002 04 (Winter)	410	98.0	23.0	9.7	98.0
		2002 02 (Summer)	280	110	18.0	7.5	67.0
	M07B-01	2007 01 (Spring)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	120	49.0	25.0	20.0	230
		2004 04 (Winter)	750	55.0	26.0	14.0	160
		2004 02 (Summer)	98.0 J	45.0	26.0	19.0	220
		2003 04 (Winter)	< 100 UJ	31.4	12.4	3.7	42.1
		2003 02 (Summer)	25.7 J	31.7	14.7	11.6 J	97.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	M07B-01	2002 04 (Winter)	< 50.0	7.9	160	< 2.0	< 5.0	< 10.0	0.21 J	0.29 J	< 3.0	190	< 0.21	3.7 J	1.2 J	0.95 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100
		2002 02 (Summer)	0.27 J	7.4	120 J	< 2.0	< 5.0	< 10.0	0.23 J	0.54 J	0.13 J	92.0 J	0.041 J	3.1 J	0.71 J	< 5.0	< 5.0	< 2.0	< 10.0	9.6 J	80.0 J
	M11-01	2007 01 (Spring)	< 0.22	3.4 J	-	< 2.0	0.13 J	< 0.56	-	< 10.0	0.29 J	-	< 0.20	-	3.4 J	0.35 J	< 5.0	< 5.0	-	10.0 J	-
		2006 03 (Fall)	0.094 J	5.5	-	< 2.0	< 5.0	< 10.0	-	1.1 J	0.36 J	-	< 0.20	-	0.75 J	< 5.0	< 5.0	< 5.0	-	13.0 J	-
		2006 01 (Spring)	< 1.0	2.9 J	-	< 2.0	< 5.0	0.91 J	-	< 10.0	< 3.0	-	< 0.20	-	2.2 J	< 5.0	< 5.0	2.9 J	-	4.4 J	-
		2005 02 (Summer)	0.38 J	5.4	160	< 2.0	< 5.0	1.0 J	0.26 J	1.1 J	< 3.0	1000	< 0.20	< 20.0	1.7 J	< 5.0	< 5.0	< 5.0	0.56 J	12.0 J	< 100
		2004 04 (Winter)	0.12 J	< 5.0	180	< 2.0	< 5.0	< 10.0	0.28 J	< 10.0	< 3.0	800	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	4.0 J
		2004 02 (Summer)	0.17 J	< 13.0	140	0.30 J	< 5.0	0.83 J	0.21 J	< 10.0	0.068 J	630	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 1.0	< 10.0	28.0	< 50.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	172	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	585	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	8.1 J	< 200
		2003 02 (Summer)	< 50.0	< 50.0	188	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1060	< 0.40	< 50.0	4.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2002 04 (Winter)	< 50.0	3.7 J	150	< 2.0	< 5.0	< 10.0	0.24 J	0.25 J	< 3.0	520	< 0.27	1.1 J	2.1 J	1.4 J	< 5.0	< 2.0	< 10.0	21.0 J	< 100
		2002 02 (Summer)	< 50.0	3.3 J	160	< 2.0	< 5.0	1.1 J	0.36 J	0.49 J	< 3.0	880	< 0.20	< 20.0	2.8 J	1.6 J	< 5.0	< 2.0	1.4 J	6.5 J	< 100
	M11-04	2007 01 (Spring)	< 0.20	3.3 J	-	< 2.0	< 5.0	< 0.83	-	0.74 J	< 3.0	-	< 0.20	-	0.73 J	0.71 J	< 5.0	< 5.0	-	7.0 J	-
		2006 03 (Fall)	0.13 J	6.2	-	< 2.0	< 5.0	< 10.0	-	0.80 J	0.32 J	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-
		2006 01 (Spring)	< 1.0	2.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	1.8 J	-	3.7 J	-
		2005 02 (Summer)	0.64 J	4.6 J	74.0	0.42 J	1.3 J	< 10.0	0.069 J	< 10.0	**8.9**	200	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 5.0	2.0 J	14.0 J	< 100
		2004 04 (Winter)	0.18 J	< 5.0	61.0	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	< 3.0	180	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	10.0 J
		2004 02 (Summer)	0.21 J	< 12.0	76.0	0.38 J	< 5.0	0.54 J	0.12 J	< 10.0	0.18 J	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	1.2 J	23.0	< 50.0
		2003 04 (Winter)	< 5.0	5.2 J	78.5 J	< 4.0	2.5 J	**17.9**	16.0	17.1	< 10.0	178	< 0.40	< 50.0	14.4 J	< 20.0	< 27.5	< 5.0	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	106	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	218	< 0.40	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	2.5 J	< 20.0	< 200
		2002 04 (Winter)	< 50.0	6.5	70.0	< 2.0	< 5.0	< 10.0	0.17 J	0.55 J	< 3.0	200	< 0.20	3.0 J	1.2 J	0.36 J	< 5.0	< 2.0	< 10.0	14.0 J	< 100
		2002 02 (Summer)	0.21 J	< 5.0	99.0 J	< 2.0	< 5.0	< 10.0	0.12 J	0.73 J	0.11 J	220 J	< 0.20	1.4 J	0.82 J	< 5.0	< 5.0	< 2.0	< 10.0	0.70 J	150
	M11-05	2007 01 (Spring)	< 0.30	3.7 J	-	< 2.0	0.10 J	< 0.47	-	< 10.0	< 3.0	-	< 0.20	-	1.6 J	< 5.0	< 5.0	< 5.0	-	23.0	-
		2006 03 (Fall)	< 1.0	7.4 J	-	< 2.0	< 5.0	< 10.0	-	0.70 J	0.55 J	-	< 0.20	-	1.5 J	< 5.0 UJ	< 5.0	< 5.0	-	5.7 J	-
		2006 01 (Spring)	0.91 J	2.4 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.25 J	-	< 0.20	-	3.6 J	< 5.0	4.5 J	13.0	-	8.4 J	-
		2005 02 (Summer)	0.64 J	6.1	110	< 2.0	< 5.0	0.83 J	0.15 J	2.3 J	< 3.0	390	< 0.20	< 20.0	1.3 J	< 5.0	< 5.0	< 5.0	1.7 J	18.0 J	< 100
		2004 04 (Winter)	0.13 J	< 5.0	370	< 2.0	< 5.0	< 10.0	0.27 J	< 10.0	< 3.0	1300	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100
		2004 02 (Summer)	0.090 J	< 5.7	130	0.31 J	< 5.0	1.6 J	0.13 J	< 10.0	0.56 J	380	< 0.20	< 20.0	3.2 J	< 5.0	0.99 J	< 1.0	< 10.0	22.0	< 50.0
		2003 04 (Winter)	< 5.0 UJ	5.8 J	206	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	826	-	**12.8 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	11.4 J	< 200
		2003 02 (Summer)	< 50.0	< 50.0	141	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	468	< 0.40	< 50.0	1.9 J	< 20.0	< 10.0	< 5.0	2.0 J	< 20.0	< 200
		2002 04 (Winter)	< 50.0	4.5 J	**760**	< 2.0	< 5.0	< 10.0	0.44 J	1.6 J	< 3.0	**2700**	< 0.20	2.2 J	2.8 J	< 5.0	0.74 J	< 2.0	< 10.0	< 20.0	< 100

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	NA	NA	NA	NA
FWBZ	M07B-01	2002 04 (Winter)	300	51.0	29.0	18.0	210
		2002 02 (Summer)	58.0 J	41.0	20.0 J	13.0	130
	M11-01	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	1900	47.0	31.0	29.0	240
		2004 04 (Winter)	2200	55.0	37.0	29.0	270
		2004 02 (Summer)	2200	36.0	32.0	30.0	360
		2003 04 (Winter)	1730	52.2	36.7	< 29.2	297
		2003 02 (Summer)	2310	56.1 J	37.3	25.4 J	262 J
		2002 04 (Winter)	2500	39.0	32.0	27.0	820
		2002 02 (Summer)	1100	45.0	33.0	28.0	280
	M11-04	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	150	41.0	19.0	9.9	46.0
		2004 04 (Winter)	74.0 J	48.0	20.0	9.3	35.0
		2004 02 (Summer)	240	49.0	22.0	10.0	43.0
		2003 04 (Winter)	73.0 J	66.8	6.4	21.7	35.5
		2003 02 (Summer)	175	87.3	40.8	12.7 J	59.2
		2002 04 (Winter)	270	45.0	17.0	9.1	39.0
		2002 02 (Summer)	200	71.0	30.0 J	11.0	58.0
	M11-05	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	310	44.0	40.0	27.0	570
		2004 04 (Winter)	3100	**160**	130	46.0	1000
		2004 02 (Summer)	890	46.0	37.0	28.0	650
		2003 04 (Winter)	2050 J	103	89.6	39.2	811
		2003 02 (Summer)	1360	58.6 J	50.0	37.5 J	793 J
		2002 04 (Winter)	**8400**	**290**	280	57.0	1500

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	M11-05	2002 02 (Summer)	0.072 J	5.4	120 J	< 2.0	< 5.0	1.9 J	0.12 J	0.69 J	0.047 J	370 J	< 0.20	2.3 J	0.99 J	2.2 J	< 5.0	< 2.0	< 10.0	< 20.0	< 100
	M11-06	2007 01 (Spring)	< 0.22	2.0 J	-	< 2.0	< 5.0	< 1.2	-	< 10.0	0.13 J	-	< 0.20	-	0.74 J	0.85 J	< 5.0	< 5.0	-	7.0 J	-
		2006 03 (Fall)	< 1.0	1.4 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.45 J	-	< 0.20	-	0.61 J	< 5.0 UJ	< 5.0	< 5.0	-	3.9 J	-
		2006 01 (Spring)	0.26 J	1.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.20 J	-	< 0.20	-	< 20.0	< 5.0	2.5 J	7.8	-	< 20.0	-
		2005 02 (Summer)	0.56 J	2.4 J	93.0	< 2.0	< 5.0	1.1 J	0.10 J	4.0 J	< 3.0	340	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.1 J	22.0	< 100
		2004 04 (Winter)	0.13 J	< 5.0	58.0	< 2.0	< 5.0	< 10.0	0.094 J	< 10.0	< 3.0	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	16.0 J	6.5 J
		2004 02 (Summer)	0.079 J	< 5.0	93.0	0.37 J	< 5.0	1.1 J	0.11 J	< 10.0	0.43 J	270	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 1.0	< 10.0	18.0 J	< 50.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	63.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	89.1	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	81.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	189	< 0.40 UJ	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	2.0 J	< 20.0	< 200
		2002 04 (Winter)	< 50.0	2.7 J	43.0	< 2.0	< 5.0	< 10.0	0.13 J	0.43 J	< 3.0	180	< 0.20	1.7 J	0.69 J	0.75 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100
		2002 02 (Summer)	< 50.0	< 5.0	52.0 J	< 2.0	< 5.0	< 10.0	0.068 J	0.83 J	0.30 J	130 J	< 0.20	1.4 J	0.42 J	0.50 J	< 5.0	< 2.0	< 10.0	10.0 J	< 100
	MBG-3	2005 02 (Summer)	0.43 J	14.0	140	< 2.0	0.57 J	2.5 J	0.15 J	< 10.0	< 3.0	410	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.9 J	3.5 J	< 20.0	< 100
		2004 04 (Winter)	0.18 J	12.0	140	< 2.0	< 5.0	2.8 J	0.18 J	< 10.0	< 3.0	500	< 0.20	< 20.0	2.2 J	< 5.0	< 5.0	< 5.0	2.7 J	8.8 J	< 100
		2004 02 (Summer)	1.4	13.0	130	< 1.0	< 1.0	2.2	0.17 J	0.33 J	0.073 J	490	< 0.20	0.88 J	< 20.0	< 1.0	< 1.0	< 1.0	< 2.4	12.0	6.1 J
		2003 04 (Winter)	< 5.0 UJ	10.2 J	130	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	499	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	13.9 J	< 200
		2003 02 (Summer)	< 50.0	15.1 J	131	< 4.0	< 5.0	2.7 J	< 10.0	< 10.0	< 10.0	483	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	3.0 J	13.7 J	< 200
		2002 04 (Winter)	0.19 J	13.0	< 75.0 UJ	< 2.0	< 5.0	3.3 J	0.19 J	0.10 J	< 3.0	270 J	< 0.20	1.3 J	1.2 J	0.64 J	< 5.0	< 3.3	3.4 J	< 20.0	< 100
		2002 02 (Summer)	0.18 J	14.0	130 J	< 2.0	< 5.0	5.6 J	0.17 J	0.31 J	0.056 J	450	< 0.20	0.91 J	1.2 J	0.82 J	0.15 J	< 2.0	4.5 J	1.8 J	7.2 J
	MW360-1	2007 01 (Spring)	< 0.24	1.4 J	-	< 2.0	0.31 J	< 0.75	-	4.1 J	0.22 J	-	< 0.20	-	**860**	< 5.0	< 5.0	< 5.0	-	9.0 J	-
		2006 01 (Spring)	< 1.0	2.8 J	-	< 2.0	< 5.0	< 10.0	-	3.1 J	< 3.0	-	< 0.20	-	**870**	< 5.0	2.3 J	< 5.0	-	< 20.0	-
		2005 02 (Summer)	0.30 J	1.4 J	41.0	< 2.0	< 5.0	< 10.0	9.6	7.2 J	< 3.0	180	< 0.20	1.3 J	**770**	< 5.0	< 5.0	0.94 J	3.7 J	6.6 J	< 100
		2005 01 (Spring)	0.15 J	< 5.0	38.0	< 2.0	< 5.0	< 10.0	5.4	10.0	< 3.0	180	< 0.20	< 20.0	**740**	< 5.0	< 5.0	< 5.0	3.9 J	25.0	< 100
		2004 04 (Winter)	0.13 J	< 5.0	41.0	< 2.0	< 5.0	4.0 J	5.7	5.0 J	**97.0 J**	180	< 0.20	< 20.0	**700**	4.4 J	< 5.0	< 5.0	4.1 J	8.2 J	< 100
		2004 02 (Summer)	0.18 J	1.0	43.0	< 1.0	< 1.0	0.23 J	4.7	6.8	0.44 J	210	< 0.20	1.1 J	**710**	0.85 J	< 1.0	< 1.0	4.7	3.6	2.8 J
		2004 01 (Spring)	< 5.0	< 50.0	42.3 J	< 4.0	< 5.0	< 10.0	7.4 J	6.8 J	< 10.0	204	< 0.40	< 50.0	**663**	< 20.0	< 10.0	< 5.0	7.1 J	< 20.0	< 200
		2003 04 (Winter)	< 5.0 UJ	< 50.0	42.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	200	< 0.40	< 50.0	**625**	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200
		2003 03 (Fall)	< 5.0	< 50.0	44.5 J	< 4.0	< 5.0	< 10.0	4.7 J	3.5 J	< 10.0	208 J	< 0.40	< 50.0	**624 J**	< 20.0	< 10.0	< 5.0	4.6 J	< 20.0	32.9 J
		2003 02 (Summer)	< 50.0	< 50.0	47.8 J	< 4.0	< 5.0	< 10.0	4.7 J	2.8 J	< 10.0	234	< 0.40	< 50.0	**664**	< 20.0	< 10.0	< 5.0	4.9 J	12.6 J	< 200
		2003 01 (Spring)	< 1.0	< 5.0	47.0	< 2.0	< 5.0	< 10.0	7.7 J	5.0 J	3.1	230	< 0.20	2.3 J	**590**	2.7 J	< 5.0	< 1.0	5.9 J	9.4 J	< 100
		2002 04 (Winter)	0.12 J	2.2 J	50.0	< 2.0	0.078 J	< 10.0	4.1 J	2.8 J	< 3.0	210	< 0.20	< 20.0	**510 J**	3.4 J	< 5.0	< 2.0	4.4 J	< 20.0	8.7 J
		2002 03 (Fall)	0.17 J	< 5.0	45.0	< 2.0	< 5.0	0.10 J	4.1 J	2.9 J	< 3.0	210	< 0.20	0.87 J	**520**	1.5 J	< 5.0	< 2.0	5.1 J	0.49 J	< 100

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA
FWBZ	M11-05	2002 02 (Summer)	870	42.0	36.0 J	24.0	670
	M11-06	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	460	34.0	35.0	23.0	390
		2004 04 (Winter)	200	32.0	27.0	18.0	250
		2004 02 (Summer)	320	38.0	34.0	21.0	320
		2003 04 (Winter)	96.6 J	37.4	26.3	< 14.3	139
		2003 02 (Summer)	178	35.1	25.4	20.4 J	171
		2002 04 (Winter)	270	20.0	18.0	16.0	210
		2002 02 (Summer)	140	21.0	16.0 J	14.0	160
	MBG-3	2005 02 (Summer)	**15000**	66.0	40.0	14.0	98.0
		2004 04 (Winter)	**17000**	67.0	50.0	13.0	96.0
		2004 02 (Summer)	**17000**	60.0 J	50.0	17.0	110
		2003 04 (Winter)	**18200 J**	68.9	55.3	15.4	111
		2003 02 (Summer)	**18000**	60.7	51.7	19.7 J	109
		2002 04 (Winter)	**16000**	30.0 J	29.0 J	17.0	72.0
		2002 02 (Summer)	**15000**	52.0	48.0	15.0	120
	MW360-1	2007 01 (Spring)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	20.0 J	5.7	12.0	5.0	660
		2005 01 (Spring)	22.0 J	5.9	14.0	4.4	810
		2004 04 (Winter)	24.0 J	6.2	14.0	5.2	800
		2004 02 (Summer)	< 100	6.6 J	16.0	5.4	800
		2004 01 (Spring)	< 100	6.7	15.9	6.4	826
		2003 04 (Winter)	< 100	6.5	15.5	< 6.0	862
		2003 03 (Fall)	45.6 J	6.8 J	16.4 J	5.1	756
		2003 02 (Summer)	< 100	7.5	17.4	9.6 J	776
		2003 01 (Spring)	96.0 J	7.7 J	16.0	5.3	740
		2002 04 (Winter)	< 100	7.0	14.0	5.6	990
		2002 03 (Fall)	< 100	6.6	16.0	5.5	960

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	MW360-1	2002 02 (Summer)	< 50.0	< 5.0	52.0	< 2.0	< 5.0	5.5 J	< 10.0	3.0 J	< 3.0	230	< 0.20	< 20.0	500	1.8 J	< 5.0	< 2.0	5.7 J	1.4 J	66.0 J
	MW360-2	2006 03 (Fall)	< 1.0	5.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.43 J	-	< 0.20	-	9.5 J	< 5.0 UJ	< 5.0	< 5.0	-	6.1 J	-
		2006 01 (Spring)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.25 J	-	< 0.20	-	21.0	< 5.0	4.0 J	4.5 J	-	< 20.0	-
		2005 02 (Summer)	0.34 J	3.3 J	650	< 2.0	< 5.0	2.0 J	14.0	4.8 J	< 3.0	3700	< 0.20	2.5 J	20.0	2.0 J	1.8 J	< 5.0	< 10.0	< 20.0	< 100
		2005 01 (Spring)	0.10 J	< 5.0	640	< 2.0	< 5.0	< 10.0	14.0	1.8 J	< 3.0	3600	< 0.20	< 20.0	19.0 J	< 5.0	< 5.0	< 5.0	< 10.0	12.0 J	< 100
		2004 04 (Winter)	0.080 J	23.0	100	< 2.0	< 5.0	< 10.0	3.5	< 10.0	< 3.0	2300	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100
		2004 02 (Summer)	< 1.0	6.5	870	< 1.0	< 1.0	1.4	15.0	1.4	0.37 J	5400	< 0.20	< 20.0	19.0	< 5.0	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0
		2004 01 (Spring)	< 5.0	9.3 J	469	< 4.0	< 5.0	< 10.0	8.3 J	< 10.0	< 10.0	4240	< 0.40	< 50.0	18.0 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200
		2003 04 (Winter)	< 5.0 UJ	27.0 J	80.8 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	1930	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	12.3 J	< 200
		2003 03 (Fall)	< 5.0	7.8 J	809	< 4.0	< 5.0	< 10.0	15.5	2.4 J	< 10.0	4770 J	< 0.40	< 50.0	18.5 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	811	< 4.0	< 5.0	< 10.0	17.1	< 10.0	< 10.0	4680	< 0.40	< 50.0	21.2	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200
		2003 01 (Spring)	< 1.0	4.2 J	800	< 2.0	< 5.0	< 10.0	17.0	1.2 J	< 3.0	4200	< 0.20	1.4 J	21.0	4.7 J	< 5.0	< 1.0	< 10.0	< 20.0	3.1 J
		2002 04 (Winter)	< 50.0	13.0	320	< 2.0	< 5.0	< 10.0	6.9 J	0.59 J	< 3.0	3500	< 0.20	2.8 J	7.1 J	1.6 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100
		2002 03 (Fall)	0.049 J	12.0	690	< 2.0	< 5.0	0.12 J	12.0	0.81 J	< 3.0	4400	< 0.20	2.1 J	11.0 J	3.1 J	< 5.0	< 2.0	0.88 J	< 20.0	< 100
		2002 02 (Summer)	< 50.0	8.3	760	< 2.0	0.27 J	1.8 J	13.0	1.8 J	< 3.0	4600	0.044 J	< 20.0	14.0 J	5.0 J	< 5.0	< 2.0	1.2 J	< 20.0	< 100
	MW360-3	2007 01 (Spring)	< 0.25	7.7	-	< 2.0	0.095 J	< 1.5	-	5.2 J	0.38 J	-	< 0.20	-	20.0	0.32 J	< 5.0	< 5.0	-	14.0 J	-
		2006 03 (Fall)	0.18 J	8.3	-	< 2.0	< 5.0	< 10.0	-	1.1 J	< 3.0	-	< 0.20	-	14.0 J	0.34 J	< 5.0	< 5.0	-	< 20.0	-
		2006 01 (Spring)	< 1.0	9.6	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	21.0	< 5.0	2.5 J	< 5.0	-	9.8 J	-
		2005 02 (Summer)	0.81 J	10.0	45.0	< 2.0	< 5.0	< 10.0	4.3	3.7 J	< 3.0	1200	0.13 J	37.0	21.0	4.5 J	< 5.0	< 5.0	6.6 J	12.0 J	< 100
		2005 01 (Spring)	0.56 J	4.1 J	130	< 2.0	< 5.0	< 10.0	3.8	8.1 J	< 3.0	2300	< 0.20	6.5 J	24.0	< 5.0	< 5.0	4.2 J	3.6 J	17.0 J	< 100
		2004 04 (Winter)	0.19 J	10.0	51.0	< 2.0	< 5.0	< 10.0	4.1	4.6 J	< 3.0	1300	< 0.20	23.0	17.0 J	< 5.0	< 5.0	< 5.0	5.9 J	< 20.0	< 100
		2004 02 (Summer)	0.28 J	8.5	57.0	< 1.0	< 1.0	0.93 J	5.0	2.4	0.32 J	1300	< 0.20	35.0	23.0	< 5.0	< 1.0	< 1.0	8.2 J	6.6 J	< 50.0
		2004 01 (Spring)	< 5.0	< 50.0	155	< 4.0	< 5.0	< 10.0	8.9 J	5.3 J	< 10.0	3370	< 0.40	14.2 J	31.7	5.0 J	< 10.0	< 5.0	9.0 J	< 21.6	< 200
		2003 04 (Winter)	< 5.0	12.5 J	52.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1410	< 0.40	38.3 J	27.0	5.0 J	< 10.0	< 5.0	10.6 J	< 20.0	< 200
		2003 03 (Fall)	< 5.0	9.9 J	60.9 J	< 4.0	< 5.0	1.3 J	6.2 J	1.4 J	< 10.0	1600 J	< 0.40	37.1 J	28.3 J	< 20.0	< 10.0	< 5.0	7.6 J	< 20.0	< 200
		2003 02 (Summer)	< 50.0	7.8 J	59.7 J	< 4.0	< 5.0	< 10.0	4.8 J	< 10.0	< 10.0	1510	< 0.40	29.8 J	26.4	< 20.0	< 10.0	< 5.0	7.1 J	< 20.0	< 200
		2003 01 (Spring)	< 1.0	5.8	93.0	< 2.0	< 5.0	< 10.0	4.8 J	2.8 J	< 3.0	1700	< 0.20	20.0 J	25.0	< 5.0	< 5.0	< 1.0	7.8 J	8.9 J	5.3 J
		2002 04 (Winter)	< 50.0	7.4	55.0	< 2.0	0.054 J	< 10.0	5.1 J	2.8 J	< 3.0	3200	< 0.26	25.0 J	22.0	0.80 J	< 5.0	< 2.0	8.4 J	< 20.0 UJ	< 100
		2002 03 (Fall)	0.20 J	7.8	44.0	< 2.0	< 5.0	0.74 J	5.1 J	2.0 J	< 3.0	1200	< 0.20	26.0	22.0	< 5.0	< 5.0	< 2.0	8.4 J	< 20.0	< 100
		2002 02 (Summer)	< 50.0	7.5	53.0	< 2.0	< 5.0	3.6 J	< 10.0	3.7 J	< 3.0	1100	0.044 J	25.0	24.0	0.54 J	< 5.0	< 2.0	10.0 J	2.3 J	34.0 J
	MW360-4	2007 01 (Spring)	< 0.18	4.4 J	-	< 2.0	0.15 J	< 1.4	-	1.1 J	0.64 J	-	< 0.20	-	3.1 J	< 5.0	< 5.0	< 5.0	-	13.0 J	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA
FWBZ	MW360-1	2002 02 (Summer)	180 J	7.7	16.0	5.0	850
	MW360-2	2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	280	150	170	0.90	370
		2005 01 (Spring)	220	**180**	220	0.68	410
		2004 04 (Winter)	3500	41.0	31.0	< 0.50	43.0
		2004 02 (Summer)	1100 J	**190**	220	1.0	440
		2004 01 (Spring)	1940	140	154	< 0.74	250
		2003 04 (Winter)	3810 J	37.6	22.4	0.50	38.1
		2003 03 (Fall)	2010	**202 J**	236 J	1.5	304
		2003 02 (Summer)	715	**205**	257	1.2 J	375
		2003 01 (Spring)	1400	**190**	210	0.86	340
		2002 04 (Winter)	3200	98.0	94.0	0.92	160
		2002 03 (Fall)	3100	**190**	220	0.96	360
		2002 02 (Summer)	1900	**200**	220	0.91	360
	MW360-3	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	36.0 J	19.0	17.0	12.0 J	220
		2005 01 (Spring)	< 100	49.0	55.0	10.0	360
		2004 04 (Winter)	35.0 J	24.0	21.0	13.0	260
		2004 02 (Summer)	47.0 J	27.0	20.0	13.0	270
		2004 01 (Spring)	< 100	69.9	72.2	19.0	460
		2003 04 (Winter)	< 100	26.6	22.1	16.2	296
		2003 03 (Fall)	47.4 J	27.1 J	23.3 J	22.5	273
		2003 02 (Summer)	< 100	27.8 J	24.1	11.2 J	252 J
		2003 01 (Spring)	150	33.0	34.0	13.0	310
		2002 04 (Winter)	120	58.0	54.0	13.0	620
		2002 03 (Fall)	62.0 J	20.0	17.0	13.0	240
		2002 02 (Summer)	79.0 J	24.0	19.0	12.0	250
	MW360-4	2007 01 (Spring)	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	MW360-4	2006 01 (Spring)	< 1.0	5.4	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.15 J	-	< 0.20	-	2.7 J	< 5.0	2.4 J	3.5 J	-	8.1 J	-
		2005 02 (Summer)	0.34 J	5.4	28.0	< 2.0	< 5.0	< 10.0	0.18 J	< 10.0	< 3.0	390	< 0.20	**31.0**	3.5 J	< 5.0	< 5.0	< 5.0	4.1 J	6.4 J	< 100
		2005 01 (Spring)	< 1.0	2.6 J	33.0	< 2.0	< 5.0	< 10.0	0.14 J	1.2 J	< 3.0	150	< 0.20	**21.0**	3.8 J	< 5.0	< 5.0	6.6	3.7 J	5.9 J	< 100
		2004 04 (Winter)	0.11 J	5.8	30.0	< 2.0	< 5.0	< 10.0	0.27 J	< 10.0	< 3.0	270	< 0.20	**33.0**	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100
		2004 02 (Summer)	0.16 J	4.8	31.0	< 1.0	< 1.0	0.18 J	0.22 J	1.1	0.083 J	280	< 0.20	**33.0**	3.3	< 5.0	< 1.0	< 1.0	4.2 J	10.0 J	6.1 J
		2004 01 (Spring)	< 5.0	< 50.0	38.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	191	< 0.40	**19.6 J**	< 20.0	< 20.0	< 10.0	< 5.0	9.4 J	8.6 J	< 200
		2003 04 (Winter)	< 5.0 UJ	4.8 J	29.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	174	< 0.40	**38.8 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	6.0 J	< 20.0	< 200
		2003 03 (Fall)	< 5.0	< 50.0	39.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.2 J	< 10.0	293 J	< 0.40	**24.3 J**	9.9 J	< 20.0	< 10.0	< 5.0	5.5 J	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	34.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	2.4 J	230	< 0.40	**30.7 J**	5.4 J	< 20.0	< 10.0	< 5.0	4.0 J	< 20.0	< 200
		2003 01 (Spring)	< 1.0	3.7 J	40.0	< 2.0	< 5.0	< 10.0	< 10.0	1.9 J	< 3.0	95.0	< 0.20	**21.0**	3.9 J	< 5.0	< 5.0	< 1.0	5.2 J	11.0 J	9.8 J
		2002 04 (Winter)	0.11 J	3.9 J	< 36.0	< 2.0	< 5.0	< 10.0	0.25 J	0.86 J	< 3.0	220	< 0.20	**36.0**	3.5 J	< 5.0	< 5.0	< 2.0	5.1 J	1.0 J	9.4 J
		2002 03 (Fall)	0.11 J	7.8	24.0	< 2.0	< 5.0	0.16 J	0.24 J	0.62 J	< 3.0	250	< 0.20	**80.0**	2.8 J	< 5.0	< 5.0	< 2.0	6.3 J	2.5 J	44.0 J
		2002 02 (Summer)	< 50.0	5.0 J	35.0	< 2.0	< 5.0	1.7 J	< 10.0	1.2 J	< 3.0	74.0	< 0.20	**38.0**	3.4 J	< 5.0	< 5.0	< 2.0	5.8 J	2.8 J	40.0 J
	MW97-3	2007 01 (Spring)	0.41 J	1.9 J	-	< 2.0	< 5.0	< 0.92	-	< 10.0	< 3.0	-	< 0.20	-	10.0 J	0.32 J	< 5.0	< 5.0	-	9.8 J	-
		2006 03 (Fall)	0.34 J	2.0 J	-	< 2.0	< 5.0	< 10.0	-	11.0	< 3.0	-	< 0.20	-	12.0 J	0.27 J	< 5.0	< 5.0	-	< 20.0	-
		2006 01 (Spring)	0.60 J	2.0 J	-	< 2.0	0.37 J	< 10.0	-	14.0	0.19 J	-	< 0.20	-	14.0 J	< 5.0	0.12 J	< 5.0	-	20.0	-
		2005 02 (Summer)	0.49 J	2.3 J	76.0	< 2.0	< 5.0	0.67 J	0.60 J	10.0	< 3.0	110	< 0.20	< 20.0	10.0 J	< 5.0	< 5.0	2.1 J	2.7 J	6.3 J	< 100
		2005 01 (Spring)	0.31 J	< 5.0	85.0	< 2.0	< 5.0	< 10.0	0.72 J	9.7 J	< 3.0	180	< 0.20	3.2 J	15.0 J	< 5.0	< 5.0	< 5.0	1.9 J	5.8 J	< 100
		2004 04 (Winter)	0.27 J	< 5.0	100	< 2.0	< 5.0	< 10.0	1.0	8.6 J	< 3.0	270	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.7 J	11.0 J	< 100
		2004 02 (Summer)	1.5	2.5	120	< 1.0	< 1.0	< 1.0	2.1	9.8	0.10 J	700	< 0.20	3.2 J	17.0 J	0.63 J	< 1.0	< 1.0	< 1.8	12.0	4.5 J
		2004 01 (Spring)	< 5.0	< 50.0	124	< 4.0	< 5.0	< 10.0	6.1 J	11.3	< 10.0	380	< 0.40	< 50.0	**25.1**	< 20.0	< 10.0	< 5.0	6.6 J	7.4 J	< 200
		2003 04 (Winter)	< 5.0 UJ	< 50.0	117	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	709	< 0.40	< 50.0	18.5 J	< 20.0	< 10.0	2.1 J	< 50.0	< 20.0	< 200
		2003 03 (Fall)	< 5.0	< 50.0	99.1 J	< 4.0	< 5.0	< 10.0	< 10.0	6.2 J	< 10.0	621 J	< 0.40	< 50.0	12.0 J	< 20.0	< 10.0	< 5.0	1.7 J	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	130	< 4.0	< 5.0	< 10.0	< 10.0	7.6 J	< 10.0	812	< 0.40	< 50.0	16.5 J	< 20.0	< 10.0	< 5.0	1.8 J	< 20.0	< 200
		2003 01 (Spring)	0.30 J	4.1 J	93.0	< 2.0	< 5.0	< 10.0	< 10.0	5.4 J	< 3.0	510	< 0.20	4.0 J	11.0 J	< 5.0	< 5.0	< 1.0	1.8 J	2.8 J	3.0 J
		2002 04 (Winter)	0.18 J	4.5 J	85.0	< 2.0	< 5.0	< 10.0	0.46 J	4.2 J	< 3.0	490	< 0.20	< 20.0	8.4 J	< 5.0	< 5.0	< 2.0	1.6 J	< 20.0	8.9 J
		2002 03 (Fall)	0.34 J	4.5 J	72.0	0.079 J	0.071 J	< 10.0	0.42 J	5.7 J	< 3.0	350	< 0.20	3.0 J	7.0 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100
		2002 02 (Summer)	0.21 J	4.4 J	96.0	< 2.0	0.055 J	3.0 J	0.45 J	6.0 J	< 3.0 UJ	480	< 0.20	2.6 J	8.6 J	-	< 5.0	< 2.0 UJ	2.8 J	< 20.0	210
	OU2B-MW01	2007 02 (Summer)	< 1.0	3.6 J	60.0	0.094 J	< 5.0	1.2 J	0.078 J	< 10.0	**19.0**	**2300**	< 0.20	< 20.0	0.26 J	0.16 J	< 5.0	< 5.0	1.3 J	7.3 J	< 100
		2007 01 (Spring)	< 0.26	7.3	69.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	**34.0**	**4200**	< 0.20	< 0.093	0.41 J	0.30 J	< 5.0	< 5.0	< 0.83	< 1.2	< 8.9
		2006 04 (Winter)	0.57 J	7.2	32.0	0.30 J	0.23 J	< 10.0	0.13 J	0.44 J	**16.0**	920	< 0.20	< 20.0	< 20.0	0.52 J	0.21 J	< 5.0	< 10.0	8.9 J	< 32.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	NA	NA	NA	NA
FWBZ	MW360-4	2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	< 100	13.0	12.0	5.8 J	120
		2005 01 (Spring)	< 100	12.0	13.0	2.9	170
		2004 04 (Winter)	22.0 J	14.0	13.0	4.6	120
		2004 02 (Summer)	83.0 J	13.0	11.0	5.7	120
		2004 01 (Spring)	< 100	14.0	14.4	4.5	186
		2003 04 (Winter)	42.3 J	15.4	12.4	6.7	82.9
		2003 03 (Fall)	40.3 J	12.4 J	13.9 J	4.0	162
		2003 02 (Summer)	< 100	13.0	12.9	4.5 J	126
		2003 01 (Spring)	66.0 J	13.0	13.0	3.6	170
		2002 04 (Winter)	< 100	12.0	11.0	4.4	160
		2002 03 (Fall)	78.0 J	9.9	8.6	6.1	79.0
		2002 02 (Summer)	52.0 J	13.0	12.0	4.2	140
	MW97-3	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	< 100	70.0	16.0	6.9	18.0
		2005 01 (Spring)	< 100	81.0	19.0	7.1	21.0
		2004 04 (Winter)	< 100	100	23.0	9.7	27.0
		2004 02 (Summer)	< 100	130 J	28.0	12.0	30.0
		2004 01 (Spring)	< 100	129	28.2	11.6 J	26.8
		2003 04 (Winter)	87.5 J	117	25.4	< 11.7	27.0
		2003 03 (Fall)	112	100 J	23.3 J	12.8	29.0
		2003 02 (Summer)	229	124	31.0	16.7	41.2 J
		2003 01 (Spring)	390	87.0	18.0	12.0	17.0
		2002 04 (Winter)	470	82.0	18.0	13.0	35.0
		2002 03 (Fall)	230	75.0	20.0	12.0	29.0
		2002 02 (Summer)	390	97.0	25.0	16.0	52.0
	OU2B-MW01	2007 02 (Summer)	**30000**	74.0	130	46.0	1200
		2007 01 (Spring)	**75000**	**220**	230	44.0	890
		2006 04 (Winter)	**14000**	39.0	85.0	31.0	820 J

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FMBZ	OU2B-MW01	2006 03 (Fall)	0.17 J	5.5	200	0.25 J	< 5.0	< 10.0	< 1.0	< 10.0	57.0	7100 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	25.0	< 100
		2006 02 (Summer)	< 1.0	6.8	99.0	< 2.0	< 5.0	< 10.0	0.30 J	< 10.0	29.0	5600	< 0.20	< 20.0	< 20.0	< 5.0	1.6 J	< 5.0	< 10.0	< 20.0	< 100
		2006 01 (Spring)	< 1.0	5.4	32.0	0.27 J	< 5.0	1.6 J	< 1.0	< 10.0	33.0	3000	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100
	OU2B-MW02	2007 02 (Summer)	< 1.0	0.42 J	30.0	0.19 J	< 5.0	1.4 J	< 1.0 UJ	< 10.0 UJ	27.0 J	610	< 0.20	0.76 J	< 20.0 UJ	0.97 J	< 5.0 UJ	< 5.0	2.3 J	< 20.0	51.0 J
		2007 01 (Spring)	< 1.0	0.74 J	130	< 2.0	< 5.0	< 0.55	< 1.0	< 10.0	10.0	350	< 0.20	< 20.0	0.40 J	< 5.0	< 5.0	< 5.0	< 2.8	< 3.4	16.0 J
		2006 04 (Winter)	1.5	3.2	58.0	1.5	1.3	1.9	1.5	2.0	10.0	440	< 0.20	1.7	1.3	0.30 J	1.3	0.49 J	2.8	< 2.5	< 18.0
		2006 03 (Fall)	< 1.0	< 5.0 UJ	25.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	6.8	110	< 0.20	< 20.0	< 20.0	< 5.0 UJ	< 5.0	< 5.0	< 10.0	2.2 J	< 100
		2006 02 (Summer)	< 1.0	0.55 J	31.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	29.0	400	< 0.20	< 20.0	< 20.0	< 5.0	4.3 J	< 5.0	< 10.0	< 20.0	< 100
		2006 01 (Spring)	0.15 J	3.0 J	27.0	0.75 J	< 5.0	2.1 J	< 1.0	< 10.0	39.0	1200	< 0.20	< 20.0	< 20.0	< 5.0	2.7 J	3.0 J	< 10.0	< 20.0	46.0 J
	OU2B-MW03	2007 02 (Summer)	0.54 J	0.38 J	80.0	< 2.0	< 5.0	0.45 J	0.074 J	< 10.0	0.79 J	84.0	< 0.20	0.72 J	< 20.0	< 5.0	< 5.0	< 5.0	1.4 J	< 20.0	< 100
		2007 01 (Spring)	< 0.35	< 0.91	61.0	< 2.0	0.065 J	< 0.69	0.098 J	0.55 J	0.58 J	240	< 0.20	0.82 J	0.56 J	0.35 J	0.090 J	0.52 J	< 2.1	8.7 J	< 61.0
		2006 04 (Winter)	0.47 J	1.5	58.0	0.35 J	0.37 J	< 0.75	0.52 J	0.85 J	1.1	220	< 0.20	1.1	0.39 J	0.58 J	0.38 J	< 1.0	3.0	< 3.6	< 44.0
		2006 03 (Fall)	< 1.0	< 5.0 UJ	100	< 2.0	< 5.0	< 10.0	< 1.0	0.36 J	2.5 J	250	< 0.20	< 20.0	< 20.0	< 5.0 UJ	< 5.0	< 5.0	< 10.0	4.9 J	57.0 J
		2006 02 (Summer)	< 1.0	0.70 J	250	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	4.3	350	< 0.20	< 20.0	< 20.0	< 5.0	4.1 J	< 5.0	< 10.0	< 20.0	< 100
		2006 01 (Spring)	< 1.0	3.1 J	120	0.27 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	110	< 0.20	3.0 J	< 20.0	< 5.0	< 5.0	2.1 J	< 10.0	< 20.0	< 100 UJ
	OU2B-MW04	2007 02 (Summer)	< 1.0	0.79 J	230	< 2.0	< 5.0	1.5 J	0.076 J	< 10.0	2.8 J	29.0	0.031 J	0.25 J	0.42 J	< 5.0	< 5.0	< 5.0	2.5 J	17.0 J	< 100
		2007 01 (Spring)	< 0.28	< 1.2	160	< 2.0	< 5.0	< 1.3	0.16 J	1.2 J	4.1	38.0	< 0.20	< 0.16	0.95 J	< 5.0	< 5.0	< 5.0	< 3.5	11.0 J	< 31.0
		2006 04 (Winter)	< 1.0	0.47 J	230	< 1.0	< 1.0	< 0.51	< 1.0	0.52 J	4.1	45.0	< 0.20	< 0.12	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 4.3	< 40.0
		2006 03 (Fall)	< 1.0	< 5.0 UJ	160	< 2.0	< 5.0	< 10.0	< 1.0	0.34 J	3.1	38.0	< 0.20	< 20.0	< 20.0	< 5.0 UJ	< 5.0	< 5.0	< 10.0	19.0 J	57.0 J
		2006 02 (Summer)	< 1.0	0.58 J	400	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	3.8	51.0	< 0.20	< 20.0	< 20.0	< 5.0	2.9 J	< 5.0	< 10.0	8.9 J	< 100
		2006 01 (Spring)	0.19 J	1.5 J	21.0	< 2.0	< 5.0	< 10.0	0.32 J	< 10.0	< 3.0	6.5 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.3 J	< 10.0	< 20.0	< 100 UJ
	OU2B-MW05	2007 02 (Summer)	< 1.0	2.8 J	250	< 2.0	< 5.0	1.6 J	0.18 J	4.0 J	0.42 J	1400	0.064 J	2.2 J	1.3 J	< 5.0	< 5.0	< 5.0	3.2 J	11.0 J	21.0 J
		2007 01 (Spring)	< 0.34	3.6 J	330	0.28 J	0.24 J	< 1.1	0.45 J	0.42 J	0.40 J	1900	< 0.20	3.0 J	1.5 J	0.40 J	0.30 J	< 5.0	< 3.8	7.8 J	140
		2006 04 (Winter)	< 1.0	3.1	200	< 1.0	0.087 J	< 0.46	0.092 J	0.79 J	< 0.23	1200	< 0.20	2.4	0.33 J	< 1.0	< 1.0	< 1.0	2.1	< 1.8	< 100
		2006 03 (Fall)	< 1.0	3.0 J	120	< 2.0	< 5.0	< 10.0	0.083 J	< 10.0	0.33 J	660	< 0.20	3.0 J	0.62 J	< 5.0 UJ	< 5.0	< 5.0	< 10.0	5.2 J	81.0 J
		2006 02 (Summer)	< 1.0	3.1 J	160	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	0.54 J	960	< 0.20	< 20.0	< 20.0	< 5.0	3.6 J	< 5.0	< 10.0	< 20.0	< 100
		2006 01 (Spring)	< 1.0	5.1	170	0.45 J	< 5.0	0.59 J	< 1.0	< 10.0	< 3.0	1100	< 0.20	3.3 J	< 20.0	< 5.0	3.1 J	3.9 J	< 10.0	7.2 J	< 100
	WA-8	2005 02 (Summer)	0.48 J	3.5 J	160	< 2.0	< 5.0	1.0 J	0.30 J	0.81 J	< 3.0	1100	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.95 J	8.8 J	< 100
		2004 04 (Winter)	0.23 J	6.4	140	< 2.0	< 5.0	1.6 J	0.48 J	< 10.0	< 3.0	1000	< 0.20	2.1 J	3.1 J	< 5.0	< 5.0	< 5.0	1.2 J	8.1 J	< 100
		2004 02 (Summer)	0.16 J	4.0	190	< 1.0	< 1.0	1.3	0.40 J	0.32 J	0.077 J	1300	< 0.20	< 5.0	2.2	0.60 J	< 1.0	< 1.0	1.6	0.84 J	< 50.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	172	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	2.8 J	1220	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	NA	NA	NA	NA
FWBZ	OU2B-MW01	2006 03 (Fall)	**110000**	**200 J**	320 J	77.0	2000 J
		2006 02 (Summer)	**58000**	100	100	29.0	740
		2006 01 (Spring)	**31000**	53.0	52.0	17.0	240
	OU2B-MW02	2007 02 (Summer)	5200	**170**	**520**	**170**	**4400**
		2007 01 (Spring)	120	130	320	100	2700
		2006 04 (Winter)	< 250	150	**360 J**	110	2800 J
		2006 03 (Fall)	< 24.0	100	290 J	120	2500 J
		2006 02 (Summer)	550	**190**	**580**	**180**	**4800**
		2006 01 (Spring)	2500	93.0	320	120	3000
	OU2B-MW03	2007 02 (Summer)	1200	47.0	100	42.0	900
		2007 01 (Spring)	3400	47.0	50.0	17.0	370
		2006 04 (Winter)	2500	75.0	140	45.0	1100 J
		2006 03 (Fall)	1900	**180**	**440 J**	130	3600 J
		2006 02 (Summer)	1900	**260**	**610**	**170**	**4600**
		2006 01 (Spring)	1400	40.0	75.0	38.0	830
	OU2B-MW04	2007 02 (Summer)	37.0 J	140	330	110	2900
		2007 01 (Spring)	340	150	270	84.0	2400
		2006 04 (Winter)	< 68.0	**210 J**	**390 J**	100	2900 J
		2006 03 (Fall)	< 100	130	300 J	90.0	2500 J
		2006 02 (Summer)	< 100	150	250	100	2000
		2006 01 (Spring)	< 100	10.0	17.0	17.0	420
	OU2B-MW05	2007 02 (Summer)	3100	**230**	**460**	110	3600
		2007 01 (Spring)	3100	**370**	**700**	120	**4100**
		2006 04 (Winter)	2000	**210 J**	**390 J**	93.0	2800 J
		2006 03 (Fall)	1200	120	220 J	79.0	2500 J
		2006 02 (Summer)	1400	**170**	320	110	3300
		2006 01 (Spring)	1600	**200**	**390**	-	3300
	WA-8	2005 02 (Summer)	3700	53.0	39.0	35.0	520
		2004 04 (Winter)	3300	44.0	36.0	31.0	550
		2004 02 (Summer)	4000	65.0	49.0	38.0	590
		2003 04 (Winter)	3250	58.3	44.9	< 38.2	630

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
FWBZ	WA-8	2003 02 (Summer)	< 50.0	6.7 J	146	< 4.0	< 5.0	< 10.0	2.0 J	< 10.0	< 10.0	1200	< 0.40 UJ	< 50.0	2.4 J	< 20.0	< 10.0	< 5.0	< 50.0	9.7 J	< 200
		2002 04 (Winter)	< 50.0	5.7	170	< 2.0	< 5.0	< 10.0	0.50 J	0.62 J	< 3.0	750	< 0.20	2.3 J	2.4 J	1.5 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100
		2002 02 (Summer)	0.55 J	11.0	210 J	< 2.0	< 5.0	< 10.0	0.34 J	0.67 J	0.064 J	1400 J	< 0.20	1.9 J	2.0 J	1.5 J	< 5.0	< 2.0	< 10.0	1.3 J	970 J
SWBZ	D03-01	2007 01 (Spring)	0.31 J	1.2 J	-	< 2.0	0.32 J	< 10.0	-	< 10.0	< 3.0	-	0.059 J	-	**38.0**	0.46 J	0.081 J	0.43 J	-	14.0 J	-
		2006 03 (Fall)	0.094 J	1.5 J	-	< 2.0	0.23 J	2.7 J	-	< 10.0	< 3.0	-	0.088 J	-	**28.0**	< 5.0	< 5.0	< 5.0	-	7.7 J	-
		2006 01 (Spring)	0.15 J	4.5 J	-	< 2.0	< 5.0	6.6 J	-	< 10.0	< 3.0	-	< 0.20	-	**36.0**	4.6 J	4.9 J	< 5.0	-	< 20.0	-
		2005 02 (Summer)	0.33 J	5.5	59.0	< 2.0	< 5.0	3.1 J	**23.0**	1.1 J	< 3.0	**16000**	< 0.20	< 20.0	**34.0**	**10.0**	4.3 J	< 5.0	< 10.0	< 20.0	< 100
		2004 04 (Winter)	0.19 J	< 5.0	67.0	< 2.0	< 5.0	2.0 J	**28.0**	< 10.0	< 3.0	**15000**	< 0.20	< 20.0	**42.0 J**	4.8 J	< 5.0	**15.0**	1.0 J	15.0 J	< 100
		2004 02 (Summer)	4.3	5.5	63.0	< 1.0	0.71 J	2.3 J	**28.0**	10.0	0.32 J	**16000**	< 0.20	1.1 J	**46.0**	< 5.0	< 1.0	< 5.0	2.4 J	< 1.0	< 50.0
		2003 04 (Winter)	< 5.0 UJ	**76.0**	61.0 J	< 4.0	< 5.0	< 10.0	< 26.2	< 10.0	**7.3 J**	**13500**	< 0.40	**30.5 J**	**32.0**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	< 50.0	69.9 J	< 4.0	0.58 J	< 10.0	**29.5**	< 10.0	< 10.0	**15700**	< 0.40 UJ	< 50.0	**38.8**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.21 J	15.0	< 80.0	0.030 J	< 5.0	< 10.0	**23.0 J**	6.1 J	< 3.0	**16000**	< 0.20	< 20.0	**34.0 J**	**57.0**	< 5.0	< 2.0	0.72 J	< 20.0	5.6 J
		2002 02 (Summer)	< 50.0	< 5.0	63.0	< 2.0	2.8 J	6.1 J	**35.0**	12.0	< 3.0 UJ	**13000**	< 0.20	1.2 J	< 55.0	-	1.7 J	1.8 J	4.2 J	< 20.0	**1100**
	D03-02	2007 01 (Spring)	< 0.18	2.4 J	48.0	< 2.0	< 5.0	< 10.0	**22.0**	< 10.0	< 3.0	**14000**	< 0.20	< 0.23	**41.0**	0.41 J	< 5.0	< 5.0	< 1.3	29.0 J	34.0 J
		2006 03 (Fall)	< 1.0	1.4 J	42.0 J	< 2.0	< 5.0	< 10.0	7.5	< 10.0	< 3.0	**11000 J**	< 0.20	< 20.0	9.5 J	0.35 J	< 5.0	< 5.0	< 10.0	6.1 J	14.0 J
		2006 01 (Spring)	0.33 J	7.0	39.0	< 2.0	< 5.0	2.0 J	**18.0**	< 10.0	6.0	**15000**	< 0.20	< 20.0	**28.0**	< 5.0	2.5 J	< 5.0	< 10.0	< 20.0	< 100
	D03-03	2007 01 (Spring)	< 0.14	2.0 J	58.0	0.20 J	2.7 J	**17000**	**200**	< 10.0	< 3.0	**26000**	< 0.20	0.99 J	**31000**	0.44 J	< 5.0	< 5.0	18.0	**79.0 J**	220
		2006 03 (Fall)	< 1.0	1.8 J	54.0 J	< 2.0	2.8 J	**24000**	**210**	< 10.0	0.41 J	**24000 J**	< 0.20	1.8 J	**33000**	< 5.0	< 5.0	< 5.0	**31.0**	**160**	130
		2006 01 (Spring)	0.11 J	< 5.0	64.0	< 2.0	2.2 J	**21000**	**220**	< 10.0	< 3.0	**33000**	< 0.20	1.9 J	**39000**	4.0 J	**6.7**	< 5.0	**35.0**	**85.0**	510
	D03-04	2007 01 (Spring)	< 0.14	1.7 J	35.0	< 2.0	0.93 J	12.0	8.8	< 10.0	< 3.0	**6200**	< 0.20	**66.0**	**32.0**	< 5.0	< 5.0	< 5.0	5.5 J	20.0 J	< 9.2
		2006 03 (Fall)	< 1.0	1.3 J	30.0 J	< 2.0	1.0 J	< 10.0	4.3	< 10.0	< 3.0	-	< 0.20	**72.0**	5.8 J	< 5.0	< 5.0	< 5.0	3.3 J	9.0 J	-
		2006 01 (Spring)	< 1.0	2.7 J	30.0	< 2.0	< 5.0	< 10.0	3.7	< 10.0	< 3.0	**4900**	0.12 J	**77.0**	8.1 J	< 5.0	**5.6**	6.7	< 10.0	9.3 J	< 100
	D04-01	2007 01 (Spring)	< 1.0	4.2 J	-	< 2.0	< 5.0	9.4 J	-	< 10.0	< 3.0	-	0.049 J	-	17.0 J	0.28 J	0.094 J	< 5.0	-	18.0 J	-
		2006 01 (Spring)	0.12 J	7.4	-	< 2.0	< 5.0	6.5 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	**12.0**	**9.3**	< 5.0	-	< 20.0	-
		2005 02 (Summer)	1.4	9.9	46.0	< 2.0	0.52 J	< 10.0	1.6	< 10.0	< 3.0	**31000**	< 0.20	5.8 J	< 20.0	**11.0**	< 5.0	< 5.0	< 10.0	15.0 J	< 100
		2004 04 (Winter)	0.32 J	7.9	59.0	< 2.0	< 5.0	< 10.0	2.8	< 10.0	< 3.0	**26000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	8.4	< 10.0	< 400	< 100
		2004 02 (Summer)	0.71 J	< 1.0	52.0	< 1.0	< 1.0	1.7	3.0	13.0	0.23 J	**26000**	< 0.20	< 20.0	16.0	< 5.0	< 1.0	< 1.0	5.9 J	< 1.0	< 50.0
		2003 04 (Winter)	< 25.0	< 50.0	39.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**24000**	< 0.40	**29.7 J**	< 20.0	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200
		2003 02 (Summer)	18.1 J	10.4 J	59.5 J	< 4.0	< 5.0	< 10.0	2.6 J	< 10.0	< 10.0	**27200**	< 0.40	< 50.0	12.5 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.25 J	19.0	< 49.0	< 2.0	< 5.0	< 10.0	1.7 J	9.4 J	< 3.0	**26000**	< 0.20	< 20.0	6.3 J	**60.0**	< 5.0	< 2.0	< 10.0	< 20.0	29.0 J
		2002 02 (Summer)	< 50.0	< 5.0	50.0	< 2.0	< 5.0	3.5 J	< 10.0	13.0	< 3.0 UJ	**23000**	0.052 J	1.0 J	< 20.0	-	< 5.0	< 2.0 UJ	1.5 J	< 20.0	**1800**

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	NA	NA	NA	NA
FWBZ	WA-8	2003 02 (Summer)	3670	60.2	39.9	23.0 J	359
		2002 04 (Winter)	2200	53.0	43.0	34.0	500
		2002 02 (Summer)	4000	83.0	60.0 J	32.0	530
SWBZ	D03-01	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	530	**610**	**1400**	**220**	**8400**
		2004 04 (Winter)	380	**590**	**1300**	**220**	**8700**
		2004 02 (Summer)	1900	**720**	**1600**	**260**	**11000**
		2003 04 (Winter)	575	**697**	**1480**	**346**	**10000**
		2003 02 (Summer)	701	**669**	**1460**	**236 J**	**8290**
		2002 04 (Winter)	2600	**640**	**1500**	**240 J**	**9900**
		2002 02 (Summer)	2000	**660**	**1500**	**230**	**9800**
	D03-02	2007 01 (Spring)	840	**580**	**1500**	**410**	**13000**
		2006 03 (Fall)	2400	**550 J**	**1400 J**	**380 J**	**12000 J**
		2006 01 (Spring)	850	**710**	**1800**	**420**	**15000**
	D03-03	2007 01 (Spring)	**200000**	**670**	**980**	15.0 J	**5500**
		2006 03 (Fall)	**230000 J**	**590 J**	**920 J**	14.0	**5000 J**
		2006 01 (Spring)	**260000**	**730**	**1100**	25.0	**6100**
	D03-04	2007 01 (Spring)	99.0 J	**410**	**490**	7.5	2700
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	< 100	**410**	**490**	11.0	3200
	D04-01	2007 01 (Spring)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	**7700**	**960**	**1500**	43.0 J	**6800**
		2004 04 (Winter)	**7800**	**1400**	**2200**	49.0	**9600**
		2004 02 (Summer)	5900 J	**1400**	**2100**	45.0	**10000**
		2003 04 (Winter)	5660	**1390**	**2200**	58.8	**10600**
		2003 02 (Summer)	**8480**	**1580 J**	**2400**	50.0 J	**9540 J**
		2002 04 (Winter)	**10000**	**1400**	**2300**	35.0 J	**11000**
		2002 02 (Summer)	**10000**	**1300**	**2100**	38.0	**9900**

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA
SWBZ	D04-02	2007 01 (Spring)	< 0.098	3.0 J	-	< 2.0	< 5.0	4.7 J	-	< 10.0	< 3.0	-	< 0.20	-	7.9 J	< 5.0	0.10 J	< 5.0	-	17.0 J	-
		2006 01 (Spring)	0.19 J	17.0	-	0.77 J	< 5.0	0.87 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	4.7 J	< 5.0	-	< 20.0	-
		2005 02 (Summer)	0.50 J	5.8	48.0	< 2.0	< 5.0	< 10.0	5.8	< 10.0	< 3.0	**20000**	< 0.20	1.4 J	< 20.0	< 5.0	< 5.0	5.6	< 10.0	19.0 J	91.0 J
		2004 04 (Winter)	0.18 J	8.5	53.0	< 2.0	0.40 J	1.9 J	5.5	< 10.0	< 3.0	**18000**	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 100	< 10.0	15.0 J	< 100
		2004 02 (Summer)	0.99 J	< 1.0	61.0	< 1.0	< 1.0	1.6	6.6	16.0	0.86 J	**20000**	< 0.20	3.2 J	**21.0**	< 5.0	< 1.0	< 1.0	4.3 J	< 1.0	0.73 J
		2003 04 (Winter)	< 10.0 UJ	< 50.0 UJ	46.3 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	**14900**	-	**23.8 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	8.3 J	54.6 J	< 4.0	< 5.0	< 10.0	2.7 J	< 10.0	< 10.0	**19400**	< 0.40	< 50.0	2.2 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.18 J	20.0	58.0	< 2.0	0.055 J	< 10.0	2.4 J	8.2 J	< 3.0	**17000**	< 0.20	< 20.0	6.9 J	**78.0**	< 5.0	< 2.0	< 10.0	< 20.0	27.0 J
		2002 02 (Summer)	< 50.0	< 5.0	53.0	< 2.0	< 5.0	3.1 J	< 10.0	10.0 J	< 3.0	**16000**	< 0.20	1.3 J	< 20.0	-	< 5.0	< 2.0 UJ	1.4 J	< 20.0	**1800**
	D04-03	2007 01 (Spring)	< 1.0	3.7 J	-	< 2.0	0.16 J	< 1.9	-	< 10.0	< 3.0	-	< 0.20	-	3.9 J	0.42 J	0.10 J	< 5.0	-	12.0 J	-
		2006 03 (Fall)	< 1.0	4.6 J	-	< 2.0	0.11 J	5.0 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	0.36 J	< 5.0	< 5.0	-	19.0 J	-
		2006 01 (Spring)	0.17 J	15.0	-	0.81 J	< 5.0	2.9 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	**17.0**	**9.0**	< 5.0	-	< 20.0	-
		2005 02 (Summer)	0.61 J	< 5.0	42.0	< 2.0	0.43 J	< 10.0	1.7	< 10.0	< 3.0	**30000**	< 0.20	1.5 J	< 20.0	< 500	< 5.0	< 5.0	< 10.0	16.0 J	< 100
		2004 04 (Winter)	0.45 J	3.0 J	48.0	< 2.0	< 5.0	< 10.0	2.5	< 10.0	**100 J**	**28000**	< 0.20	12.0 J	< 20.0	< 5.0	< 5.0	5.1	< 10.0	< 20.0	< 100
		2004 02 (Summer)	0.90 J	< 5.0	45.0	< 1.0	< 5.0	1.8 J	1.6	**25.0**	1.4	**29000**	0.062 J	0.99 J	18.0	< 5.0	< 1.0	< 5.0	< 10.0	< 1.0	< 50.0
		2003 04 (Winter)	< 25.0 UJ	< 50.0	34.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**21700**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200
		2003 02 (Summer)	15.2 J	14.3 J	54.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**31900**	< 0.40	< 50.0	1.3 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.22 J	18.0	< 42.0	0.039 J	< 5.0	< 10.0	1.4 J	11.0	< 3.0	**26000**	< 0.23	< 20.0	5.2 J	**54.0**	< 5.0	< 2.0	< 10.0	< 20.0	5.8 J
		2002 02 (Summer)	< 50.0	< 5.0	45.0	< 2.0	< 5.0	3.1 J	< 10.0	20.0	< 3.0 UJ	**25000**	< 0.20	1.3 J	< 20.0	-	< 5.0	< 2.0 UJ	0.98 J	< 20.0	**1700**
	D11-01	2007 01 (Spring)	< 0.15	3.8 J	-	< 2.0	0.10 J	< 0.44	-	< 10.0	< 3.0	-	< 0.20	-	**25.0**	0.43 J	0.091 J	< 5.0	-	15.0 J	-
		2006 03 (Fall)	0.10 J	1.9 J	-	< 2.0	0.21 J	5.2 J	-	< 10.0	0.14 J	-	< 0.20	-	19.0 J	0.45 J	< 5.0	< 5.0	-	20.0	-
		2006 01 (Spring)	0.17 J	19.0	-	0.65 J	**13.0**	3.2 J	-	2.1 J	3.2	-	< 0.20	-	**30.0**	5.0	**8.1**	4.6 J	-	26.0 J	-
		2005 02 (Summer)	0.91 J	< 5.0	44.0	< 2.0	0.90 J	< 10.0	**31.0**	< 10.0	< 3.0	**23000**	< 0.20	1.6 J	**31.0**	< 5.0	< 5.0	< 5.0	1.3 J	27.0	110
		2004 04 (Winter)	0.32 J	< 5.0	57.0	< 2.0	< 5.0	< 10.0	**28.0**	< 10.0	< 3.0	**23000**	< 0.20	< 20.0	17.0 J	< 5.0	< 5.0	10.0	3.4 J	< 20.0	9.0 J
		2004 02 (Summer)	0.56 J	< 8.1	44.0	0.33 J	< 5.0	1.2 J	**33.0**	< 10.0	0.18 J	**24000**	< 0.20	< 20.0	**35.0**	< 5.0	< 5.0	< 1.0	< 10.0	21.0	< 50.0
		2003 04 (Winter)	< 5.0	< 50.0	46.1 J	< 4.0	< 5.0	< 10.0	**27.1**	< 10.0	< 10.0	**22200**	< 0.40	**22.0 J**	**32.8**	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200
		2003 02 (Summer)	< 50.0	10.7 J	58.4 J	< 4.0	0.91 J	< 10.0	**31.0**	< 10.0	< 10.0	**20800**	< 0.40	< 50.0	**29.3**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200
		2002 04 (Winter)	0.27 J	10.0	53.0	0.051 J	0.63 J	< 10.0	**28.0 J**	6.4 J	< 3.0	**25000**	< 0.24	< 20.0	**27.0 J**	**43.0**	< 5.0	< 2.7	2.4 J	15.0 J	8.0 J
		2002 02 (Summer)	< 50.0	14.0	42.0	< 2.0	< 5.0	12.0	**32.0**	< 10.0	< 3.0	**21000**	< 0.20	< 20.0	< 20.0	**63.0 J**	< 5.0	0.25 J	< 10.0	< 20.0	< 100

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-5

Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Common Rock-forming Elements				
			Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA
		BV:	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	NA	NA	NA	NA
SWMZ	D04-02	2007 01 (Spring)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	**8500**	**1100**	**1600**	24.0	**7200**
		2004 04 (Winter)	**8000**	**1200**	**1600**	24.0	**9000**
		2004 02 (Summer)	**8500 J**	**1500**	**2000**	28.0	**10000**
		2003 04 (Winter)	5590 J	**1610**	**2120**	32.6	**9600**
		2003 02 (Summer)	**8570**	**1560**	**2080**	84.6 J	**8290**
		2002 04 (Winter)	**15000**	**1400**	**2000**	26.0 J	**9200**
		2002 02 (Summer)	**11000**	**1400**	**1900**	23.0	**8800**
	D04-03	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	**12000**	**990**	**1800**	87.0	**12000**
		2004 04 (Winter)	**13000**	120	24.0	110	50.0
		2004 02 (Summer)	**17000**	**1100**	**2400**	98.0	**17000**
		2003 04 (Winter)	**10400**	**1150**	**2290**	132	**15300**
		2003 02 (Summer)	**16300**	**1480 J**	**2890**	126 J	**15200 J**
		2002 04 (Winter)	**17000**	**1100**	**2300**	87.0 J	**15000**
		2002 02 (Summer)	**17000**	**1200**	**2600**	87.0	**17000**
	D11-01	2007 01 (Spring)	-	-	-	-	-
		2006 03 (Fall)	-	-	-	-	-
		2006 01 (Spring)	-	-	-	-	-
		2005 02 (Summer)	260	**680**	**1200**	43.0	**9200**
		2004 04 (Winter)	1100	**860**	**1500**	39.0	**12000**
		2004 02 (Summer)	340	**980**	**1800**	42.0	**13000**
		2003 04 (Winter)	661	**991**	**1770**	58.3	**13200**
		2003 02 (Summer)	793	**793**	**1470**	63.4 J	**8420**
		2002 04 (Winter)	1500	**870**	**1900**	36.0 J	**14000**
		2002 02 (Summer)	110	**830**	**1500**	33.0	**11000**

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	37-MJ-MW1	03/07/07	7.58	1.22	-15.8
		09/15/05	6.54	4.35	-102.0
		03/14/05	6.24	1.16	-82.0
		12/01/04	6.95	0.56	59.0
		07/02/04	6.56	1.56	7.0
		03/04/04	6.64	1.92	86.0
		12/12/03	7.29	0.49	166.0
		09/17/03	7.09	0.57	-46.0
		06/26/03	7.23	0.53	63.0
		04/11/03	7.20	0.46	143.0
		12/10/02	***8.68***	0.79	-107.0
		09/06/02	6.97	***18.50***	-118.1
		06/25/02	7.00	5.49	-105.7
First	372-MW1	04/25/06	7.38	1.51	50.0
		09/16/05	6.77	1.39	77.0
		12/03/04	7.14	1.68	211.0
		07/01/04	7.51	0.35	98.0
		12/15/03	7.60	3.30	91.6
		07/07/03	7.84	0.44	-102.0
		04/14/03	7.32	2.60	241.0
		07/11/02	7.29	1.02	0.0
First	398-MW4	03/07/07	6.71	1.04	-136.3
		10/02/06	7.18	0.55	143.4
		04/25/06	7.09	0.76	-244.0
		09/15/05	7.89	0.88	-194.0
		03/14/05	7.16	0.46	-205.0
		12/02/04	7.17	0.14	51.0
		07/02/04	6.88	0.31	-15.0
		03/04/04	7.15	0.13	49.0
		12/12/03	7.11	0.30	-65.0
		09/17/03	7.19	0.34	-31.0
		06/26/03	7.69	0.16	77.0
		04/11/03	7.30	1.90	-146.0
		12/10/02	***8.87***	0.00	-153.0
		09/06/02	7.18	3.50	-151.0
		06/20/02	7.17	***15.10***	-124.9
First	M03-04	03/08/07	7.07	0.32	-141.5
		09/27/06	6.85	0.14	-129.7
		04/26/06	6.59	0.17	-197.0
		09/15/05	7.47	0.80	-185.0
		03/14/05	7.04	6.35	-197.0
		12/02/04	6.88	0.17	-18.0
		07/01/04	6.78	0.29	-21.0
		03/04/04	6.89	0.14	-289.0
		12/12/03	6.99	0.72	-169.2
		09/17/03	6.89	0.21	-101.0
		06/26/03	7.51	0.08	-17.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M03-04	04/14/03	7.10	0.40	-58.0
		12/10/02	6.54	7.64	-157.6
		09/06/02	6.77	5.90	-151.0
		06/20/02	6.83	6.00	-136.5
First	M03-05	03/12/07	7.80	0.73	-210.1
		09/27/06	7.61	0.74	-220.9
		04/26/06	6.61	0.62	-82.0
		09/15/05	6.50	0.73	-238.0
		12/02/04	7.39	0.33	-24.0
		07/01/04	7.28	2.30	15.0
		12/12/03	7.81	0.28	56.0
		06/26/03	7.44	0.32	-163.0
		12/09/02	7.07	8.66	-169.5
		07/03/02	***5.85***	1.10	-117.0
First	M03-06	03/12/07	8.63	0.44	-213.1
		04/26/06	8.04	0.99	-229.0
		09/15/05	***9.03***	0.93	-234.0
		03/14/05	***8.54***	0.04	-277.0
		12/02/04	7.77	0.37	5.0
		07/02/04	7.91	2.40	105.0
		03/04/04	8.07	0.25	-36.0
		12/12/03	***8.53***	0.16	53.0
		09/18/03	8.12	0.16	-2.0
		06/26/03	8.29	0.18	-145.0
		04/11/03	***9.66***	0.19	120.0
		12/11/02	7.62	***36.94***	-184.2
		09/06/02	8.22	0.40	-148.3
		07/03/02	***4.30***	1.60	-43.0
First	M03-07	03/08/07	7.33	0.16	-130.3
		09/27/06	6.81	0.04	-139.2
		04/26/06	6.68	0.64	-199.0
		09/19/05	6.36	4.26	-156.0
		12/02/04	6.61	0.43	-32.0
		07/02/04	6.50	0.21	-23.0
		12/12/03	6.92	0.15	-103.0
		06/26/03	7.50	0.11	-44.0
		12/11/02	6.34	***13.16***	-186.4
		06/20/02	6.85	0.70	-150.3
First	M03-09	03/08/07	***6.33***	0.16	-27.9
		09/27/06	***5.93***	0.08	88.4
		04/26/06	***5.86***	0.45	36.0
		09/15/05	6.53	0.71	-46.0
		03/14/05	6.16	0.00	8.0
		12/02/04	***5.94***	0.23	266.0
		07/01/04	***5.99***	0.24	70.0
		03/04/04	***5.94***	0.10	-282.0
		12/12/03	***5.98***	0.30	60.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M03-09	09/17/03	6.12	0.14	-283.0
		06/25/03	6.13	0.13	-178.0
		04/11/03	6.10	1.90	-218.0
		12/13/02	***3.90***	***9.10***	-25.5
		09/06/02	***5.86***	4.10	-11.0
First	M03-10	03/09/07	***9.02***	1.60	-46.4
		09/28/06	***9.13***	0.72	137.9
		04/26/06	***8.94***	0.67	-27.0
		09/19/05	8.29	4.88	-49.0
		03/15/05	8.19	0.68	-32.0
		12/03/04	***8.64***	1.61	201.0
		07/06/04	***8.67***	4.40	127.0
		03/05/04	***8.73***	2.51	231.0
		12/19/03	***8.63***	0.83	-109.1
		09/18/03	***8.68***	0.25	105.0
		06/26/03	***9.33***	0.31	-172.0
		04/11/03	***8.73***	2.06	195.0
		12/13/02	8.17	***9.30***	35.3
		09/06/02	***8.82***	1.70	-29.2
First	M03-11	03/09/07	7.74	0.57	-136.3
		09/27/06	7.83	0.27	-145.9
		04/26/06	7.34	1.77	-52.0
		09/15/05	8.28	1.00	-196.0
		03/15/05	7.67	0.46	-171.0
		12/03/04	8.08	0.28	-27.0
		07/06/04	7.48	3.64	-66.0
		03/04/04	7.57	2.88	213.0
		12/12/03	7.58	0.30	-18.0
		09/18/03	7.59	0.31	-285.0
		06/25/03	7.70	0.35	-337.0
		04/11/03	7.42	2.40	-304.0
		12/13/02	***5.91***	***41.17***	-322.3
		09/09/02	7.60	***22.80***	-156.0
First	M03-12	03/09/07	***11.78***	0.41	-131.6
		09/28/06	***10.95***	0.24	-209.3
		04/26/06	***10.67***	0.21	-188.0
		09/16/05	***10.51***	0.00	-305.0
		03/15/05	***10.00***	0.00	-304.0
		12/02/04	***10.48***	0.23	94.0
		07/02/04	***11.00***	0.25	-108.0
		03/04/04	***11.71***	0.21	143.0
		12/15/03	***11.59***	0.49	181.0
		09/19/03	***9.78***	0.35	138.0
		06/25/03	***9.86***	0.25	118.0
		04/11/03	***11.40***	3.70	-7.0
		12/13/02	7.54	***9.99***	-277.2
First	M03-12	09/09/02	7.34	***28.20***	79.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M03-13	03/08/07	11.14	5.16	-115.1
		10/02/06	6.12	0.10	64.2
		09/28/06	***11.57***	0.97	34.6
		04/27/06	***11.14***	4.29	-75.0
		09/16/05	***10.03***	0.00	-80.0
		03/15/05	***10.49***	2.56	-138.0
		12/02/04	8.07	0.17	128.0
		07/01/04	7.81	5.03	-133.0
		03/04/04	8.18	6.70	260.0
		12/15/03	7.53	2.53	193.0
		09/23/03	7.34	0.30	75.0
		06/25/03	7.49	0.27	110.0
		04/11/03	7.73	***27.50***	10.0
		12/13/02	***5.92***	***11.72***	-239.1
		09/06/02	7.28	3.90	-40.0
First	M03-14	03/09/07	***8.79***	0.25	-41.4
		09/27/06	***8.83***	0.76	-32.7
		04/27/06	8.14	0.17	53.0
		09/15/05	7.92	4.08	-9.0
		03/14/05	7.79	0.00	-23.0
		12/01/04	***8.51***	0.15	120.0
		06/30/04	***8.61***	0.31	-193.0
First	M03-15	03/09/07	6.31	0.60	273.6
		09/28/06	6.36	0.53	113.9
		04/27/06	6.15	0.24	47.0
		09/15/05	6.15	0.04	-11.0
		03/15/05	**5.86**	0.00	73.0
		12/01/04	6.17	0.36	116.0
		06/30/04	6.22	0.28	-55.0
First	M03-16	03/09/07	6.17	1.23	167.7
		10/02/06	6.05	0.14	-6.0
		04/27/06	6.05	0.14	-6.0
		09/15/05	***5.67***	4.23	23.0
		03/15/05	6.21	1.43	9.0
		12/01/04	6.27	0.24	310.0
		06/30/04	6.19	0.19	-8.0
First	M03-17	09/15/05	6.56	0.78	0.0
		03/16/05	6.43	0.48	-55.0
		12/01/04	6.27	0.40	149.0
		06/30/04	7.09	2.70	34.0
First	M04-05	10/02/06	Inaccessible	Inaccessible	Inaccessible
		04/27/06	7.24	3.59	132.0
		09/19/05	7.53	1.87	66.0
		03/14/05	7.47	1.19	31.0
		12/03/04	6.83	1.91	206.0
		07/02/04	6.86	***22.90***	226.0
		03/04/04	7.03	1.32	-53.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M04-05	12/15/03	7.02	2.07	101.4
		09/18/03	6.99	2.82	134.0
		06/25/03	6.92	1.35	104.0
		04/14/03	6.90	***17.30***	196.0
		12/09/02	6.87	0.20	117.0
		09/09/02	7.08	***14.10***	94.7
		06/21/02	7.05	***26.20***	36.1
First	M04-06	03/08/07	7.61	0.87	-26.9
		10/02/06	6.67	0.08	103.9
		04/27/06	***5.97***	1.63	100.0
		09/16/05	6.76	0.72	-43.0
		12/02/04	7.11	0.58	214.0
		07/02/04	6.63	0.33	159.0
		12/15/03	6.70	1.87	259.0
		06/26/03	6.74	0.77	-78.0
		01/08/03	7.27	0.66	-88.0
		06/21/02	6.75	2.27	61.9
First	M07B-01	03/08/07	7.52	0.39	-87.0
		04/27/06	6.03	3.21	-12.0
		09/15/05	7.52	0.00	-235.0
		03/16/05	7.29	1.41	-48.0
		12/01/04	7.08	0.38	-22.0
		06/30/04	8.19	2.30	88.0
		03/04/04	7.60	4.52	215.0
		12/15/03	7.53	2.36	221.0
		09/23/03	7.55	0.13	-52.0
		06/26/03	8.23	0.22	-134.0
		04/14/03	7.45	5.02	130.0
		12/09/02	7.16	5.36	-110.1
		09/06/02	7.54	3.50	-115.0
		06/20/02	7.58	***11.42***	-38.2
First	M11-01	03/09/07	7.26	4.97	-29.2
		10/02/06	7.20	0.27	-50.3
		04/26/06	7.04	4.42	111.0
		09/15/05	7.01	0.73	-164.0
		03/16/05	6.42	0.55	-56.0
		12/01/04	6.99	0.47	-2.0
		06/30/04	7.01	0.46	-10.0
		03/04/04	7.13	1.14	193.0
		12/12/03	7.22	0.98	-46.0
		09/18/03	7.09	0.15	-126.0
		06/25/03	7.08	0.16	-221.0
		04/11/03	7.28	0.28	164.0
		12/09/02	***9.23***	0.00	-168.0
		09/06/02	7.07	1.60	-161.2
		06/21/02	7.24	1.40	-107.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M11-04	03/13/07	5.81	2.85	396.4
		10/02/06	7.20	0.06	-7.3
		04/26/06	6.83	1.09	129.0
		09/16/05	6.84	0.82	-81.0
		03/14/05	6.52	2.88	-55.0
		12/01/04	7.31	0.77	139.0
		06/30/04	7.16	1.40	53.0
		03/05/04	7.15	3.65	249.0
		12/12/03	7.22	1.04	165.0
		09/19/03	7.26	0.36	-41.0
		06/26/03	7.20	1.52	129.0
		04/11/03	7.36	1.68	158.0
		12/09/02	6.94	4.51	-62.2
		09/06/02	7.25	3.90	-104.2
		06/20/02	7.12	1.52	-52.6
First	M11-05	03/12/07	6.03	4.25	400.4
		09/28/06	7.64	0.16	-27.8
		04/27/06	6.72	2.29	118.0
		09/15/05	6.75	3.93	-170.0
		03/14/05	6.46	0.00	-100.0
		12/01/04	7.33	0.17	1.0
		06/30/04	8.21	2.70	-4.0
		03/04/04	7.20	0.51	173.0
		12/15/03	7.49	0.23	-82.0
		09/19/03	7.31	0.17	-119.0
		06/25/03	7.58	1.60	-173.0
		04/11/03	7.59	0.24	127.0
		12/09/02	***8.93***	0.00	-183.0
		09/09/02	7.36	3.50	-186.0
		06/20/02	7.67	3.00	-150.0
First	M11-06	03/12/07	7.85	3.21	-62.4
		09/28/06	7.58	0.11	-148.1
		04/27/06	7.14	4.26	-78.0
		09/15/05	7.48	0.02	-204.0
		03/14/05	6.89	2.54	-19.0
		12/01/04	7.54	0.49	65.0
		06/30/04	8.24	3.80	40.0
		03/04/04	7.68	2.90	202.0
		12/12/03	7.87	1.49	210.0
		09/18/03	7.52	0.17	-105.0
		06/26/03	8.26	0.24	100.0
		04/11/03	7.86	1.66	147.0
		12/09/02	***8.98***	0.00	-155.0
		09/09/02	7.63	***10.60***	-148.0
		06/20/02	7.86	1.50	-110.0
First	MBG-3	09/15/05	7.54	0.90	-194.0
		12/02/04	6.63	0.44	-28.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MBG-3	07/06/04	7.01	0.34	-105.0
		12/15/03	7.04	0.30	-14.0
		06/26/03	7.40	0.17	-229.0
		12/11/02	***9.18***	0.00	-170.0
		06/24/02	6.90	-0.04	-158.9
First	MW360-1	03/13/07	5.80	4.41	400.9
		04/27/06	6.71	1.29	13.0
		09/15/05	6.52	4.94	42.0
		03/15/05	7.08	0.00	12.0
		12/03/04	7.47	0.21	82.0
		07/06/04	6.76	0.29	144.0
		03/05/04	6.90	0.20	248.0
		12/12/03	6.93	0.92	12.4
		09/19/03	6.86	0.20	150.0
		06/26/03	7.08	0.74	-131.0
		04/11/03	6.87	0.18	217.0
		12/10/02	7.30	0.00	61.0
		09/09/02	6.92	3.80	143.2
		06/19/02	6.92	1.64	258.5
First	MW360-2	09/28/06	6.59	0.07	10.7
		04/27/06	6.00	0.16	125.0
		09/16/05	6.26	0.41	2.0
		03/15/05	6.61	0.00	-1.0
		12/03/04	6.32	0.35	83.0
		07/02/04	6.29	2.50	167.0
		03/04/04	6.41	0.57	55.0
		12/15/03	6.77	0.26	-2.0
		09/19/03	6.28	0.17	26.0
		06/26/03	6.57	0.27	-162.0
		04/14/03	6.42	0.73	187.0
		12/09/02	7.79	0.00	-73.0
		09/09/02	6.42	7.60	-29.2
		06/19/02	6.44	2.70	13.6
First	MW360-3	03/13/07	7.20	0.70	-33.3
		10/02/06	6.93	0.39	-41.4
		04/27/06	7.06	0.59	95.0
		09/19/05	7.57	0.87	-47.0
		03/15/05	6.92	0.00	23.0
		12/03/04	6.91	0.25	198.0
		07/02/04	6.90	0.28	-142.0
		03/04/04	6.75	0.45	0.0
		12/12/03	6.88	0.35	250.0
		09/22/03	6.95	0.30	136.0
		06/25/03	7.25	0.15	-130.0
		04/14/03	7.02	0.70	202.0
		12/09/02	7.31	0.00	42.0
		09/09/02	7.06	2.90	65.6

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW360-3	06/19/02	6.98	1.17	246.6
First	MW360-4	03/13/07	7.28	0.60	-54.7
		04/27/06	7.15	0.69	12.0
		09/19/05	6.53	4.47	62.0
		03/14/05	7.26	0.00	15.0
		12/03/04	7.70	0.18	70.0
		07/02/04	7.23	0.14	31.0
		03/05/04	7.12	0.15	215.0
		12/12/03	7.23	0.26	63.0
		09/19/03	7.13	0.12	-20.0
		06/26/03	NM	0.14	-50.0
		04/14/03	7.26	0.45	193.0
		12/10/02	7.23	0.00	121.0
		09/09/02	7.21	1.30	48.2
		06/19/02	7.16	0.71	82.6
First	MW97-3	03/14/07	5.82	2.24	393.4
		10/02/06	6.33	1.35	93.4
		04/27/06	6.67	1.88	97.0
		09/14/05	7.30	2.20	50.0
		03/14/05	6.85	2.90	53.0
		12/03/04	6.40	0.67	213.0
		07/06/04	7.10	0.43	-94.0
		03/08/04	6.52	1.51	376.0
		12/12/03	6.98	1.18	37.0
		09/22/03	6.74	0.26	191.0
		06/27/03	6.95	0.24	-212.0
		04/14/03	6.80	2.40	145.0
		12/10/02	7.92	0.00	-6.0
		09/06/02	6.89	5.50	-4.0
		07/03/02	6.33	1.90	29.0
First	OU2B-MW01	3/12/2007	5.91	0.54	388.0
		12/19/2006	6.17	0.52	-105.9
		10/2/2006	5.82	0.18	-99.8
		07/13/06	6.65	0.32	-181.0
First	OU2B-MW02	3/12/2007	7.20	1.58	150.8
		12/18/2006	7.00	0.21	-265.4
		10/2/2006	6.66	0.10	-299.0
		09/28/06	7.04	0.61	-309.6
		07/13/06	7.26	0.09	-382.0
First	OU2B-MW03	03/13/07	6.97	0.59	6.3
		12/18/06	7.08	0.37	-176.0
		09/28/06	6.74	0.26	-134.7
		07/13/06	7.17	0.08	-348.0
First	OU2B-MW04	03/13/07	7.49	0.49	-226.4
		12/18/06	7.36	0.14	-262.5
		09/28/06	7.47	0.29	-237.2

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	OU2B-MW04	07/13/06	7.69	0.05	-391.0
First	OU2B-MW05	03/13/07	7.31	1.19	-101.0
		12/18/06	7.42	0.21	-118.9
		09/28/06	7.58	0.34	-132.6
		07/13/06	7.88	0.14	-316.0
First	WA-8	09/14/05	7.70	0.96	-189.0
		03/14/05	7.29	0.60	-189.0
		12/02/04	6.87	0.48	5.0
		07/07/04	6.79	0.36	-157.0
		03/05/04	7.11	1.32	63.0
		12/12/03	6.99	0.16	-58.0
		09/23/03	6.95	0.18	-103.0
		06/26/03	7.03	NM	-96.0
		04/14/03	7.00	2.30	-95.0
		12/09/02	6.60	4.19	-86.5
		09/06/02	6.86	3.10	-113.0
		06/20/02	6.91	8.74	-112.3
Second	D03-01	03/08/07	6.84	3.42	89.4
		09/26/06	6.51	0.07	-137.0
		04/26/06	6.31	0.20	-127.0
		09/15/05	7.09	0.73	-122.0
		12/02/04	6.51	0.21	75.0
		07/01/04	6.42	0.24	21.0
		12/12/03	6.62	0.61	-163.6
		06/26/03	7.17	0.17	52.0
		12/10/02	6.06	***9.37***	-100.0
		07/03/02	6.52	0.18	71.1
Second	D03-02	03/08/07	6.47	0.58	264.9
		09/26/06	6.53	0.06	-160.1
		04/25/06	6.56	0.42	-25.0
		09/14/05	7.30	1.08	-321.0
		03/15/05	6.01	0.28	-141.0
		12/01/04	6.44	0.54	71.0
		07/02/04	6.50	3.80	202.0
Second	D03-03	03/08/07	***5.12***	0.37	67.0
		09/26/06	***4.86***	2.80	67.7
		04/25/06	***4.82***	0.45	76.0
		09/19/05	5.60	4.92	-82.0
		03/14/05	6.58	0.00	-106.0
		12/06/04	***5.87***	0.16	46.0
		07/01/04	6.89	4.90	102.0
Second	D03-04	03/08/07	6.96	0.32	32.9
		09/27/06	7.12	0.29	261.6
		04/26/06	6.86	0.57	68.0
		09/19/05	6.65	5.00	77.0
		03/14/05	7.14	0.16	44.0
		12/06/04	7.00	0.38	237.0

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D03-04	07/01/04	6.76	3.50	190.0
Second	D04-01	03/08/07	7.06	0.61	-99.6
		04/26/06	6.94	0.33	-118.0
		09/19/05	7.43	0.87	-134.0
		12/02/04	6.85	0.36	49.0
		07/02/04	6.16	0.32	-124.0
		12/12/03	6.80	0.62	22.0
		06/25/03	7.07	0.27	-172.0
		12/10/02	***8.50***	3.64	-107.0
		07/03/02	6.97	0.13	-105.6
Second	D04-02	03/08/07	7.28	0.51	-169.0
		04/26/06	6.83	1.46	-198.0
		09/16/05	7.22	1.95	-175.0
		12/02/04	7.39	2.72	-25.0
		07/02/04	7.03	4.96	-56.0
		12/15/03	7.14	5.37	36.0
		06/26/03	7.07	3.98	80.0
		12/10/02	***8.61***	1.74	-100.0
		07/03/02	6.89	0.12	-107.6
Second	D04-03	03/08/07	6.69	0.44	-66.1
		09/27/06	6.92	2.30	-63.6
		04/26/06	6.56	0.19	-135.0
		09/19/05	7.17	0.82	-116.0
		12/03/04	7.10	0.20	47.0
		07/01/04	6.58	3.60	122.0
		12/12/03	6.83	0.43	***-925.0***
		06/25/03	6.94	2.17	-3.0
		12/10/02	6.35	5.80	-97.8
		07/03/02	6.83	0.35	-107.2
Second	D11-01	03/08/07	6.17	0.52	182.1
		09/27/06	6.61	0.14	-9.7
		04/26/06	6.60	0.54	-16.0
		09/16/05	6.51	0.45	-24.0
		12/01/04	6.62	0.17	169.0
		06/30/04	6.54	0.21	-1.0
		12/12/03	6.46	0.26	131.0
		06/26/03	6.63	0.19	254.0
		12/10/02	6.12	3.98	7.6
		07/08/02	6.55	0.12	59.6

Table 5.1-6
Groundwater Sampling Field Parameters at Operable Unit 2B - IR Site 3 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	372-MW1	2007 01 (Spring)	< 0.0050	< 0.0050	0.0040 J	< 0.050	< 0.050	10.0	18.0	140	140	< 6.7	< 6.7	< 0.040	200
		2006 01 (Spring)	< 0.0050	< 0.0050	0.038	< 0.050	< 0.050	7.2	6.5	110	110	< 1.0	< 1.0	< 0.040	370
		2005 02 (Summer)	< 0.0050	< 0.0050	0.039	< 0.050	< 0.050	6.8	8.1	80.0	80.0	< 1.0	< 1.0	< 0.040	230
		2004 04 (Winter)	< 0.0050	< 0.0050	0.020	< 0.050	< 0.050	14.0	31.0	160	160	< 1.0	< 1.0	< 0.040	190
		2004 02 (Summer)	< 0.010	< 0.010	0.083	0.010 J	< 0.050	8.2	12.0	61.0	61.0	< 1.0	< 1.0	< 0.040	150
		2003 04 (Winter)	< 0.0030	< 0.0030	0.015	0.75 J	< 1.0 UJ	8.4	20.3	76.7	76.7	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.034	0.21	< 0.10	9.8	17.6	65.1	-	-	-	< 1.0	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	< 0.010 UJ	< 0.050	< 0.050	7.1	7.9	78.0	78.0	< 1.0	< 1.0	< 0.040	-
	37-MJ-MW1	2005 02 (Summer)	< 0.0050	< 0.0050	0.13	< 0.050	< 0.050	3.1	2.1	100	100	< 1.0	< 1.0	< 0.040	160
		2004 04 (Winter)	< 0.0050	< 0.0050	0.14 J	< 0.050	< 0.050	13.0	17.0	210	210	< 1.0	< 1.0	< 0.040 UJ	310
		2004 02 (Summer)	< 0.010	< 0.010	0.070	< 0.050	< 0.050	8.5	2.0	94.0	94.0	< 1.0	< 1.0	< 0.040	150
		2003 04 (Winter)	< 0.0030	< 0.0030	0.081	< 0.10	< 0.10	6.8	2.5	208	208	< 5.0	-	< 1.0	-
		2003 02 (Summer)	0.0006 J	< 0.0030	0.23	< 0.10	< 0.10	12.0 J	5.5	79.6	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.52	< 0.050	< 0.050	4.4	1.7	230	230	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	0.65 J	< 0.050	< 0.050	4.8	4.6	120	120	< 1.0	< 1.0	< 0.040	-
	398-MW4	2007 01 (Spring)	0.0070	< 0.0050	11.0	< 0.10	< 0.20	1900	< 1.0	1200	1200	< 10.0	< 10.0	< 0.040	3970

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	398-MW4	2006 01 (Spring)	< 0.0050	< 0.0050	2.9	< 0.050	< 0.10	780	0.16 J	620	620	< 1.0	< 1.0	< 0.040	1720
		2005 02 (Summer)	< 0.0050	< 0.0050	3.1	< 0.10	< 0.15	1100	0.31 J	830	830	< 1.0	< 1.0	0.10	2680
		2004 04 (Winter)	< 0.0050	< 0.0050	2.2	< 0.050	< 0.10	640	1.3	460	460	< 1.0	< 1.0	0.16	1500
		2004 02 (Summer)	< 0.010	< 0.010	1.5	< 0.10	< 0.25	1300	7.2	820	820	< 1.0	< 1.0	0.10	2710
		2003 04 (Winter)	0.0009 J	< 0.0030	0.28	< 1.0	< 1.0	1090	15.2	959	959	< 5.0	-	< 1.0	-
		2003 02 (Summer)	0.0008 J	< 0.0030	0.57	< 0.10	< 1.0	11300	17.3	765	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	1.1	< 0.10	< 0.10	1400	18.0	830	830	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.75	< 0.25	< 0.25	1400	27.0	810	810	< 1.0	< 1.0	< 0.040	-
	M03-04	2007 01 (Spring)	-	-	-	< 0.10	< 0.25	1700	< 1.0	-	-	-	-	-	3820
		2006 01 (Spring)	0.0070	< 0.0050	14.0 J	< 0.10	< 0.25	1600	0.52 J	-	-	-	-	-	5000
		2005 02 (Summer)	-	-	-	< 0.15	< 0.25	2200	< 1.5	-	-	-	-	-	5020
		2004 04 (Winter)	-	-	-	< 0.25	< 0.25	2600	1.5 J	-	-	-	-	-	4910
		2004 02 (Summer)	-	-	-	< 0.25	< 0.25	2500	< 2.5	-	-	-	-	-	4640
		2003 04 (Winter)	-	-	-	< 0.10	< 0.10	2230	2.3	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	4.0	-	2520	0.64	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.25	< 0.25	3000	< 2.5	-	-	-	-	-	-

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-04	2002 02 (Summer)	-	-	-	< 0.50	< 0.50	3100	38.0	-	-	-	-	-	-
	M03-05	2007 01 (Spring)	< 0.0050	< 0.0050	2.0	0.070	< 0.10	980	24.0	850	850	< 10.0	< 10.0	0.55	2450
		2006 01 (Spring)	< 0.0050	< 0.0050	0.10 J	1.8	0.040 J	71.0	52.0	350	350	< 1.0	< 1.0	< 0.040	500 J
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0050	< 2.5	< 5.0	25000	4000	570	570	< 1.0	< 1.0	0.16	47400
		2004 04 (Winter)	< 0.0050	< 0.0050	7.7	< 0.25	< 0.25	2000	32.0	1100	1100	< 1.0	< 1.0	0.36	4040
		2004 02 (Summer)	< 0.010	< 0.010	0.83	< 0.25	< 0.50	3000	230	1100	1100	< 1.0	< 1.0	0.22	4620
		2003 04 (Winter)	< 0.0030	< 0.0030	1.4	< 1.0	< 1.0	1970	74.5	1090	1090	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.40	< 0.10	< 1.0	2140	56.7	1060	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.39	< 0.25	< 0.25	1900	65.0	1100	1100	< 1.0	< 1.0	0.24	-
		2002 02 (Summer)	< 0.010	< 0.010	1.6	< 0.25	< 0.25	2300	80.0	1100	1100	< 1.0	< 1.0	0.26	-
	M03-06	2007 01 (Spring)	< 0.0050	< 0.0050	1.5	< 0.050	< 0.050	79.0	64.0	630	550	74.0	< 10.0	0.39	1180
		2006 01 (Spring)	< 0.0050	< 0.0050	1.9 J	< 0.050	< 0.050	130	110	710	710	< 1.0	< 1.0	0.61	1550
		2005 02 (Summer)	< 0.0050	< 0.0050	0.93	< 0.050	< 0.050	68.0	57.0	530	530	4.0	< 1.0	< 0.040	1020
		2004 04 (Winter)	< 0.0050	< 0.0050	1.0	< 0.050	< 0.050	61.0	57.0	440	440	< 1.0	< 1.0	0.34	920
		2004 02 (Summer)	< 0.010	< 0.010	0.60	< 0.050	< 0.050	48.0	62.0	430	350	76.0	< 1.0	0.30	1530
		2003 04 (Winter)	0.0007 J	< 0.0030	0.34	< 0.10	< 0.10	79.6	70.6	1310	1310	< 5.0	-	< 1.0	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-06	2003 02 (Summer)	0.0006 J	0.0011 J	0.50	< 0.10	< 0.10	66.0 J	76.5	442	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.61	< 0.050	< 0.050	74.0	60.0	500	500	< 1.0	< 1.0	0.25	-
		2002 02 (Summer)	< 0.010	< 0.010	0.48	< 0.050	< 0.050	65.0	71.0	480	480	< 1.0	< 1.0	0.38	-
	M03-07	2007 01 (Spring)	-	-	-	-	-	140	0.11 J	-	-	-	-	-	-
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	64.0	0.15 J	-	-	-	-	-	-
		2005 02 (Summer)	-	-	-	0.020 J	< 0.050	310	< 0.50	-	-	-	-	-	-
		2004 04 (Winter)	-	-	-	0.040 J	< 0.050	260	< 0.50	-	-	-	-	-	-
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	220	< 0.50	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 0.10	< 0.10	184	< 25.0	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 1.0	266	< 0.50	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	340	0.18 J	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	300	1.1	-	-	-	-	-	-
	M04-05	2006 01 (Spring)	< 0.0050	< 0.0050	0.0040 J	1.0	< 0.050	4.9	12.0	230	230	< 1.0	< 1.0	< 0.040	420
		2005 02 (Summer)	< 0.0050	< 0.0050	0.031	2.2	< 0.050	9.3	23.0	320	320	< 1.0	< 1.0	< 0.040	360
		2004 04 (Winter)	< 0.0050	< 0.0050	0.036	3.6	< 0.050	12.0	34.0	380	380	< 1.0	< 1.0	< 0.040	460
		2004 02 (Summer)	< 0.010	< 0.010	0.025	3.4	< 0.050	12.0	32.0	350	350	< 1.0	< 1.0	< 0.040	490

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M04-05	2003 04 (Winter)	< 0.0030	< 0.0030	0.0007 J	2.8 J	< 1.0 UJ	12.0	31.2	347	347	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.027	4.1	< 0.10	17.3 J	32.0	348	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.098	0.46	< 0.050	15.0	21.0	450	450	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.022	4.4	< 0.050	14.0	38.0	380	380	< 1.0	< 1.0	< 0.040	-
	M04-06	2007 01 (Spring)	-	-	-	3.3	< 0.050	19.0	85.0	-	-	-	-	-	570
		2006 01 (Spring)	-	-	-	3.4	0.030 J	22.0	110	-	-	-	-	-	540
		2005 02 (Summer)	-	-	-	1.6	< 0.050	19.0	50.0	-	-	-	-	-	700
		2004 04 (Winter)	-	-	-	7.9	< 0.050	41.0	120	-	-	-	-	-	840 J
		2004 02 (Summer)	-	-	-	2.0	< 0.050	25.0	95.0	-	-	-	-	-	460
		2003 04 (Winter)	-	-	-	6.7 J	< 1.0 UJ	56.9	143	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	6.6	< 0.10	29.5	95.9	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	2.1	< 0.050	20.0	87.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	1.7	< 0.050	19.0	64.0	-	-	-	-	-	-
	M07B-01	2007 01 (Spring)	-	-	-	0.030 J	< 0.050	24.0	17.0	-	-	-	-	-	230
		2006 01 (Spring)	-	-	-	0.21	< 0.050	3.8	7.2	-	-	-	-	-	120
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	270	31.0	-	-	-	-	-	980

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07B-01	2004 04 (Winter)	-	-	-	< 0.050	< 0.050	160	37.0	-	-	-	-	-	650
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	200	35.0	-	-	-	-	-	720
		2003 04 (Winter)	-	-	-	< 1.0 UJ	< 1.0 UJ	32.2	25.7	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 0.10	83.7	29.2	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	210	40.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	110	27.0	-	-	-	-	-	-
	M11-01	2005 02 (Summer)	< 0.0050	< 0.0050	2.2	0.010 J	< 0.050	190	2.2	540	540	< 1.0	< 1.0	< 0.040	940
		2004 04 (Winter)	< 0.0050	< 0.0050	3.6	< 0.050	< 0.050	260	2.7	550	550	< 1.0	< 1.0	< 0.040 UJ	920 J
		2004 02 (Summer)	< 0.010	< 0.010	3.4	< 0.050	< 0.050	230	1.2	570	570	< 1.0	< 1.0	< 0.040	980
		2003 04 (Winter)	< 0.0030	< 0.0030	0.94	< 0.10	< 0.10	258	4.6	544	544	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	1.2	< 0.10	< 1.0	237	2.7	526	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	3.1	< 0.050	< 0.050	310	1.9	580	580	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	2.1	< 0.050	< 0.050	260	2.0	570	570	< 1.0	< 1.0	< 0.040	-
	M11-04	2007 01 (Spring)	-	-	-	0.60	< 0.050	11.0	47.0	-	-	-	-	-	340
		2006 01 (Spring)	-	-	-	0.27	< 0.050	6.9	16.0	-	-	-	-	-	270
		2005 02 (Summer)	-	-	-	0.24	< 0.050	9.7	23.0	-	-	-	-	-	370

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M11-04	2004 04 (Winter)	-	-	-	0.14	< 0.050	8.9	17.0	-	-	-	-	-	290
		2004 02 (Summer)	-	-	-	0.67	< 0.050	15.0	23.0	-	-	-	-	-	350
		2003 04 (Winter)	-	-	-	4.9	< 0.10	32.1	134	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	2.8	< 0.10	37.0 J	87.9	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	11.0	39.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	1.3	< 0.050	17.0	72.0	-	-	-	-	-	-
	M11-05	2007 01 (Spring)	< 0.0050	< 0.0050	0.059	0.42	< 0.50	2600	300	310	310	< 10.0	< 10.0	< 0.040	4920
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0080	< 0.10	< 0.25	1600	210	200	200	< 1.0	< 1.0	< 0.040	3130
		2005 02 (Summer)	< 0.0050	< 0.0050	0.042	< 0.050	< 0.10	700	97.0	270	270	< 1.0	< 1.0	< 0.040	1570
		2004 04 (Winter)	< 0.0050	< 0.0050	0.089 J	< 0.10	< 0.25	2000	180	330	330	< 1.0	< 1.0	< 0.040 UJ	3180 J
		2004 02 (Summer)	< 0.010	< 0.010	0.086	< 0.050	< 0.10	900	65.0	320	320	< 1.0	< 1.0	< 0.040	1740
		2003 04 (Winter)	< 0.0030	< 0.0030	0.064	< 1.0 UJ	< 1.0 UJ	1300	90.7	386	386	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.091	< 0.10	< 1.0	1210	-	353	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.083	< 0.25	< 0.25	3600	430	300	300	< 1.0	< 1.0	0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.12	< 0.050	< 0.050	930	73.0	370	370	< 1.0	< 1.0	< 0.040	-
	M11-06	2007 01 (Spring)	-	-	-	0.54	< 0.050	110	32.0	-	-	-	-	-	430

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M11-06	2006 01 (Spring)	-	-	-	0.95	< 0.050	47.0	32.0	-	-	-	-	-	390
		2005 02 (Summer)	-	-	-	< 0.050	< 0.10	550	72.0	-	-	-	-	-	1240
		2004 04 (Winter)	-	-	-	0.030 J	< 0.050	340	47.0	-	-	-	-	-	900
		2004 02 (Summer)	-	-	-	0.050	< 0.050	440	58.0	-	-	-	-	-	1060
		2003 04 (Winter)	-	-	-	0.22	< 0.10	171	39.6	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 1.0	293	39.4	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	240	22.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	170	23.0	-	-	-	-	-	-
	MBG-3	2005 02 (Summer)	< 0.0050	< 0.0050	6.6	< 0.050	< 0.050	18.0	0.27 J	560	560	< 1.0	< 1.0	0.10	670
		2004 04 (Winter)	< 0.0050	< 0.0050	6.1	< 0.050	< 0.050	22.0	1.6	820	820	< 1.0	< 1.0	0.060	700
		2004 02 (Summer)	< 0.010	< 0.010	8.1	< 0.050	< 0.050	20.0	1.5	570	570	< 1.0	< 1.0	0.060	630
		2003 04 (Winter)	< 0.0030	< 0.0030	2.0	< 1.0 UJ	< 1.0 UJ	22.9	6.2	572	572	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	5.1	< 0.10	< 0.10	28.6 J	2.1	565	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	7.3	< 0.050	< 0.050	24.0	0.66	550	550	< 1.0	< 1.0	0.070	-
		2002 02 (Summer)	< 0.010	< 0.010	5.3	< 0.050	< 0.050	21.0	< 0.47 J	530	530	< 1.0	< 1.0	< 0.040	-
	MW360-1	2007 01 (Spring)	-	-	-	< 0.050	< 0.050	370	190	-	-	-	-	-	1820

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW360-1	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	410	190	-	-	-	-	-	1960
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	450	190	-	-	-	-	-	2000
		2004 04 (Winter)	-	-	-	0.020 J	< 0.050	490	190	-	-	-	-	-	1920
		2004 02 (Summer)	-	-	-	0.030 J	< 0.050	490	180	-	-	-	-	-	2070
		2003 04 (Winter)	-	-	-	0.16	< 0.10	493	185	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	0.24	< 1.0	491	219	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	0.22	< 0.10	610	190	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	0.32	< 0.050	630	210	-	-	-	-	-	-
	MW360-2	2006 01 (Spring)	< 0.0050	< 0.0050	0.087	< 0.050	< 0.10	990	180	490	490	< 1.0	< 1.0	< 0.040	2270
		2005 02 (Summer)	< 0.0050	< 0.0050	0.086	< 0.10	< 0.15	1100	180	490	490	< 1.0	< 1.0	< 0.040	2240
		2004 04 (Winter)	< 0.0050	< 0.0050	4.7	< 0.050	< 0.050	52.0	5.0	240	240	< 1.0	< 1.0	< 0.040	320
		2004 02 (Summer)	< 0.010	< 0.010	0.13	< 0.10	< 0.25	1100	150	430	430	< 1.0	< 1.0	< 0.040	1980
		2003 04 (Winter)	< 0.0030	< 0.0030	2.1	< 1.0 UJ	< 1.0 UJ	12.4	4.0 J	225	225	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.066	< 0.10	< 1.0	1180	171	403	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	4.4	< 0.050	< 0.050	370	46.0	300	300	< 1.0	< 1.0	0.090	-
		2002 02 (Summer)	< 0.010	< 0.010	0.38	< 0.050	< 0.050	1200	120	360	360	< 1.0	< 1.0	< 0.040	-

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW360-3	2007 01 (Spring)	-	-	-	0.090	< 0.050	57.0	63.0	-	-	-	-	-	880
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	48.0	49.0	-	-	-	-	-	910
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	20.0	21.0	-	-	-	-	-	690
		2004 04 (Winter)	-	-	-	0.050	< 0.050	42.0	40.0	-	-	-	-	-	760
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	26.0	25.0	-	-	-	-	-	860
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	25.3	26.2	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 0.10	40.6 J	28.4	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	0.090	< 0.050	38.0	29.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.030 J	39.0	32.0	-	-	-	-	-	-
	MW360-4	2007 01 (Spring)	-	-	-	0.22	< 0.050	11.0	28.0	-	-	-	-	-	240
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	17.0	43.0	-	-	-	-	-	360
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	23.0	58.0	-	-	-	-	-	300
		2004 04 (Winter)	-	-	-	0.030 J	< 0.050	20.0	50.0	-	-	-	-	-	340
		2004 02 (Summer)	-	-	-	0.020 J	< 0.050	18.0	46.0	-	-	-	-	-	410
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	14.2	38.2	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	0.18	< 0.10	33.8	73.2	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW360-4	2002 04 (Winter)	-	-	-	< 0.050	< 0.050	26.0	66.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	25.0	61.0	-	-	-	-	-	-
	MW97-3	2007 01 (Spring)	-	-	-	0.92	< 0.050	12.0	43.0	-	-	-	-	-	420
		2006 01 (Spring)	-	-	-	0.27	< 0.050	7.8	24.0	-	-	-	-	-	370
		2005 02 (Summer)	-	-	-	0.26	< 0.050	11.0	30.0	-	-	-	-	-	330
		2004 04 (Winter)	-	-	-	0.63	0.030 J	15.0	52.0	-	-	-	-	-	430
		2004 02 (Summer)	-	-	-	2.3	0.020 J	20.0	68.0	-	-	-	-	-	420
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	34.2	88.4	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	0.94 J	< 0.10	35.9 J	44.0	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	0.14	< 0.050	16.0	29.0	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	0.11	< 0.050	17.0	32.0	-	-	-	-	-	-
	OU2B-MW01	2007 01 (Spring)	0.029	< 0.0050	8.7	< 0.15	< 0.25	2500	39.0	220	220	< 10.0	< 10.0	0.050	3930
		2006 01 (Spring)	0.055	< 0.025	10.0	< 0.050	< 0.050	250	220	310	310	< 1.0	< 1.0	0.21	900
	OU2B-MW02	2007 01 (Spring)	-	-	-	< 0.25	< 0.50	5000	550	-	-	-	-	-	8840
		2006 01 (Spring)	-	-	-	< 0.50	< 1.0	5100	760	-	-	-	-	-	9580
	OU2B-MW03	2007 01 (Spring)	-	-	-	< 0.050	< 0.10	550	82.0	-	-	-	-	-	1210

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	OU2B-MW03	2006 01 (Spring)	-	-	-	0.15	< 0.25	1300	250	-	-	-	-	-	2700
	OU2B-MW04	2007 01 (Spring)	-	-	-	< 0.25	< 0.50	4400	610	-	-	-	-	-	2180
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	490	92.0	-	-	-	-	-	1160
	OU2B-MW05	2007 01 (Spring)	< 0.0050	< 0.0050	0.10	< 0.50	< 1.0	8500	1300	190	190	< 6.7	< 6.7	< 0.040	120
		2006 01 (Spring)	< 0.0050	< 0.0050	0.11	< 0.50	< 1.0	5600	790	200	200	< 1.0	< 1.0	< 0.040	10600
	WA-8	2005 02 (Summer)	< 0.0050	< 0.0050	2.5	< 0.050	< 0.050	470	0.87	780	780	< 1.0	< 1.0	< 0.040	1520
		2004 04 (Winter)	< 0.0050	< 0.0050	4.1	< 0.050	< 0.050	460	0.44 J	980	980	< 1.0	< 1.0	0.13	1730
		2004 02 (Summer)	< 0.010	< 0.010	1.5	< 0.050	< 0.050	550	8.0	880	880	< 1.0	< 1.0	< 0.040	1990
		2003 04 (Winter)	< 0.0030	< 0.0030	0.48	< 1.0	< 1.0	473	< 5.0	1040	1040	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.23	< 0.10	< 1.0	412	33.2	647	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.69	< 0.10	< 0.10	560	16.0	970	970	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.11	< 0.050	< 0.050	590	47.0	800	800	< 1.0	< 1.0	< 0.040	-
SWBZ	D03-01	2007 01 (Spring)	-	-	-	< 1.0	< 2.5	18000	2300	-	-	-	-	-	32200
		2006 01 (Spring)	-	-	-	< 1.0	< 2.5	18000	2300	-	-	-	-	-	35000 J
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	19000	2300	-	-	-	-	-	8000
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	20000	2300	-	-	-	-	-	29600

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D03-01	2004 02 (Summer)	-	-	-	< 1.3	< 2.5	19000	2200	-	-	-	-	-	32900
		2003 04 (Winter)	-	-	-	-	-	15600	1830	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 1.0	-	15700	1980	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	19000	2200	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 1.0	< 1.0	19000	2000	-	-	-	-	-	-
	D04-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.0070	< 1.0	< 2.5	20000	3200	280	280	< 1.0	< 1.0	< 0.040 UJ	22400
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0070 J	< 1.3	< 2.5	21000	3100	260	260	< 1.0	< 1.0	< 0.040	41600 J
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0070	< 1.3	< 2.5	20000	3000	250	250	< 1.0	< 1.0	< 0.040	37800
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0070	< 1.3	< 2.5	22000	3100	240	240	< 1.0	< 1.0	< 0.040	33400
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	21000	2900	230	230	< 1.0	< 1.0	< 0.040	32500
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0042	< 1.0	-	17700	3070	242	242	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0047	< 1.0	< 50.0	22000 J	2870	238	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	21000	3000	250	250	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	21000	3000	250	250	< 1.0	< 1.0	< 0.040	-
	D04-02	2007 01 (Spring)	< 0.0050	< 0.0050	0.048	< 1.0	< 2.5	19000	3000	200	200	< 1.0	< 1.0	< 0.040 UJ	29700
		2006 01 (Spring)	< 0.0050	< 0.0050	0.075 J	< 1.0	< 2.5	19000	2600	170	170	< 1.0	< 1.0	0.16	34900

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D04-02	2005 02 (Summer)	< 0.0050	< 0.0050	0.0050	< 1.0	< 2.5	19000	2700	230	230	< 1.0	< 1.0	< 0.040	42700
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0060	< 1.3	< 2.5	21000	2700	220	220	< 1.0	< 1.0	< 0.040	30000
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	19000	2600	220	220	< 1.0	< 1.0	< 0.040	32000
		2003 04 (Winter)	< 0.0030	< 0.0030	< 0.0030	< 1.0 UJ	-	18700	3020	213	213	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0027 J	< 1.0	< 50.0	20600 J	2400	210	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.017	< 1.0	< 1.0	20000	2900	220	220	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	20000	2500	220	220	< 1.0	< 1.0	< 0.040	-
	D04-03	2007 01 (Spring)	-	-	-	< 2.5	< 5.0	27000	4100	-	-	-	-	-	46000
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0040 J	< 2.5	< 5.0	27000	3900	-	-	-	-	-	48100
		2005 02 (Summer)	-	-	-	< 2.5	< 5.0	27000	3900	-	-	-	-	-	57600
		2004 04 (Winter)	-	-	-	< 2.5	< 5.0	31000	4200	-	-	-	-	-	46400
		2004 02 (Summer)	-	-	-	< 2.5	< 5.0	29000	4100	-	-	-	-	-	50600
		2003 04 (Winter)	-	-	-	< 1.0	-	13100	2070	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 200	32100	5110	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	30000	4300	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 1.0	< 1.0	29000	4000	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 5.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2B - IR Site 3 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D11-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.030	< 1.0	< 2.5	18000	5000	940	940	< 1.0	< 1.0	< 0.040 UJ	35200
		2006 01 (Spring)	< 0.0050	< 0.0050	0.022 J	< 1.0	< 2.5	19000	5700	1000	1000	< 1.0	< 1.0	< 0.040	37000 J
		2005 02 (Summer)	< 0.0050	< 0.0050	0.024	< 1.0	< 2.5	19000	5500	1000	1000	< 1.0	< 1.0	< 0.040	44000
		2004 04 (Winter)	< 0.0050	< 0.0050	0.027 J	< 1.3	< 2.5	21000	5900	1100	1100	< 1.0	< 1.0	< 0.040 UJ	38500
		2004 02 (Summer)	< 0.010	< 0.010	0.028	< 1.3	< 2.5	19000	5400	1000	1000	< 1.0	< 1.0	< 0.040	38100
		2003 04 (Winter)	< 0.0030	< 0.0030	0.016	< 1.0	-	17300	5820	1020	1020	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.014	< 1.0	-	17100	5350	960	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.017	< 1.0	< 1.0	21000	5800	990	990	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.026	< 1.0	< 1.0	21000	5800	1000	1000	< 1.0	< 1.0	< 0.040	-

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	8	29	73.0	M03-04	08 Mar 2007	63000 J	M03-11	2002 04 (Winter)
Benzene (UG/L)	3	29	140	M03-04	27 Sep 2006	550	M03-04	2002 03 (Fall)
TPH-Diesel (UG/L)	16	26	19000 J	M03-04	27 Sep 2006	36000	M03-04	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	1	29	0.90	M03-04	27 Sep 2006	9.7	M03-15	2005 02 (Summer)
TPH-Jet Fuel (UG/L)	10	26	23000 J	M03-04	27 Sep 2006	36000	M03-04	2005 01 (Spring)
Toluene (UG/L)	1	29	0.10 J	M03-12	28 Sep 2006	11.0 J	M03-11	2002 03 (Fall)
Trichloroethene (UG/L)	15	29	13000	M03-15	28 Sep 2006	31000	M03-15	2004 04 (Winter)
1,1-Dichloroethene (UG/L)	8	29	1600	M03-10	28 Sep 2006	3300	M03-10	2003 03 (Fall)
Ethylbenzene (UG/L)	5	29	1.3 J	398-MW4	07 Mar 2007	150	M03-04	2002 02 (Summer)
TPH-Motor Oil (UG/L)	8	26	1000	M03-07	27 Sep 2006	4500	398-MW4	2006 01 (Spring)
Bromodichloromethane (UG/L)	1	29	0.20 J	M11-04	13 Mar 2007	0.20 J	372-MW1	2005 02 (Summer)
cis-1,2-Dichloroethene (UG/L)	14	29	420	MW360-1	13 Mar 2007	420	MW360-1	2006 01 (Spring)
M,P-xylenes (UG/L)	2	29	0.60 J	M03-04	27 Sep 2006	470	M03-04	2002 02 (Summer)
TPH-Gasoline (UG/L)	16	26	3300	398-MW4	07 Mar 2007	4500	M03-04	2002 02 (Summer)
O-xylene (UG/L)	1	29	0.20 J	M03-04	27 Sep 2006	22.0	M03-04	2002 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	6	29	140	MW360-1	13 Mar 2007	110	MW360-1	2006 01 (Spring)
1,1-Dichloroethane (UG/L)	6	29	14.0 J	MW360-1	13 Mar 2007	22.0	M03-06	2002 02 (Summer)
Bromomethane (UG/L)	1	29	0.70 J	M03-14	27 Sep 2006	1.2	M03-17	2004 04 (Winter)
Naphthalene (UG/L)	2	29	4.7	M03-04	27 Sep 2006	5.6 J	M03-04	2002 03 (Fall)
1,2-Dichloroethane (UG/L)	2	29	0.20 J	MW360-2	28 Sep 2006	4.3	M03-04	2003 02 (Summer)
Carbon Disulfide (UG/L)	14	29	8.7 J	M03-10	28 Sep 2006	17.0 J	M03-11	2002 03 (Fall)
Methyl tert-butyl ether (MTBE) (UG/L)	2	29	2.8	MW360-4	13 Mar 2007	1700	M11-04	2003 01 (Spring)
1,1,1-Trichloroethane (UG/L)	2	29	13.0 J	M03-10	28 Sep 2006	34.0	M03-10	2002 03 (Fall)
Chlorobenzene (UG/L)	3	29	3.7 J	MW360-1	13 Mar 2007	2.0	MW360-4	2002 03 (Fall)
1,2-Dichlorobenzene (UG/L)	5	29	220	MW360-1	13 Mar 2007	260	MW360-1	2004 02 (Summer)
Vinyl Chloride (UG/L)	7	29	3.7 J	MW360-1	13 Mar 2007	14.0	M03-10	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
1,3-Dichlorobenzene (UG/L)	1	29	0.10 J	OU2B-MW03	28 Sep 2006	6.3	MW360-1	2004 02 (Summer)
Chloroform (UG/L)	3	29	3.2	372-MW1	07 Mar 2007	25.0	372-MW1	2006 01 (Spring)
1,4-Dichlorobenzene (UG/L)	2	29	59.0	MW360-1	13 Mar 2007	56.0	MW360-1	2005 02 (Summer)
1,2-Dichloropropane (UG/L)	2	29	0.80 J	398-MW4	07 Mar 2007	0.10 J	M11-05	2004 02 (Summer)
Isopropylbenzene (UG/L)	4	29	9.2	OU2B-MW02	28 Sep 2006	10.0	OU2B-MW01	2006 01 (Spring)
Methylene Chloride (UG/L)	4	29	1.6 J	M03-16	09 Mar 2007	75.0 J	M03-11	2002 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	4	29	1.8 J	M03-12	09 Mar 2007	12.0 J	M03-12	2003 04 (Winter)
Methyl isobutyl ketone (MIBK) (UG/L)	3	29	5.9 J	M03-04	08 Mar 2007	62.0	M03-04	2003 03 (Fall)
n-Butylbenzene (UG/L)	1	29	0.50	OU2B-MW01	12 Mar 2007	2.4	M03-04	2002 03 (Fall)
n-Propylbenzene (UG/L)	7	29	15.0	M03-04	27 Sep 2006	18.0	M03-04	2003 03 (Fall)
p-Isopropyltoluene (UG/L)	1	29	0.060 J	OU2B-MW01	12 Mar 2007	0.80 J	M03-04	2002 03 (Fall)
sec-Butylbenzene (UG/L)	6	29	0.60 J	M03-04	27 Sep 2006	1.4	OU2B-MW01	2006 01 (Spring)
Tert-butyl alcohol (UG/L)	8	29	870	M03-04	27 Sep 2006	980	M03-04	2004 02 (Summer)
Tert-butylbenzene (UG/L)	2	29	0.30 J	OU2B-MW02	28 Sep 2006	0.34 J	MW360-2	2003 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	5	29	0.20 J	OU2B-MW01	12 Mar 2007	46.0	M03-04	2002 02 (Summer)
1,3,5-Trimethylbenzene (UG/L)	4	29	0.10 J	398-MW4	02 Oct 2006	20.0	M03-04	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	3	8	1.6 J	D03-03	08 Mar 2007	1.4 J	D03-02	2005 02 (Summer)
TPH-Diesel (UG/L)	3	5	63.0	D11-01	27 Sep 2006	320	D11-01	2006 01 (Spring)
Toluene (UG/L)	1	8	0.090 J	D03-03	08 Mar 2007	0.40 J	D04-03	2002 02 (Summer)
Trichloroethene (UG/L)	1	8	0.80	D03-02	08 Mar 2007	4.8	D04-03	2003 04 (Winter)
1,1-Dichloroethene (UG/L)	1	8	18.0	D03-04	08 Mar 2007	3.1	D03-04	2004 02 (Summer)
cis-1,2-Dichloroethene (UG/L)	2	8	1.2	D03-02	08 Mar 2007	3.0	D03-02	2005 02 (Summer)
TPH-Gasoline (UG/L)	3	5	180	D03-01	26 Sep 2006	270	D03-01	2002 04 (Winter)
Carbon Disulfide (UG/L)	1	8	0.20 J	D04-03	27 Sep 2006	0.70	D03-02	2004 04 (Winter)
Chloromethane (UG/L)	2	8	0.40 J	D04-03	27 Sep 2006	--	NA	NA
Methyl ethyl ketone (MEK) (UG/L)	2	8	0.40 J	D04-03	27 Sep 2006	0.70 J	D03-04	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
1,4 Dioxane (UG/L)	2	5	73.0	MW360-1	13 Mar 2007	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Ethane (MG/L)	2	7	0.029	OU2B-MW01	12 Mar 2007	0.055	OU2B-MW01	2006 01 (Spring)
Methane (MG/L)	7	7	11.0	398-MW4	07 Mar 2007	14.0 J	M03-04	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	3	3	0.048	D04-02	08 Mar 2007	0.075 J	D04-02	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	20	29	1.5	OU2B-MW02	18 Dec 2006	3.9 J	M03-06	2003 03 (Fall)
Arsenic (UG/L)	29	29	55.0	M03-04	08 Mar 2007	133	M03-04	2003 02 (Summer)
Barium (UG/L)	7	7	400	OU2B-MW04	13 Jul 2006	880 J	M03-04	2002 02 (Summer)
Beryllium (UG/L)	6	29	1.5	OU2B-MW02	18 Dec 2006	0.75 J	OU2B-MW02	2006 01 (Spring)
Cadmium (UG/L)	17	29	2.0 J	M04-06	02 Oct 2006	59.0	M04-06	2006 01 (Spring)
Chromium (UG/L)	4	29	20.0	M03-07	27 Sep 2006	115	M04-05	2003 02 (Summer)
Cobalt (UG/L)	7	7	69.0	M03-15	28 Sep 2006	66.0	M03-15	2006 01 (Spring)
Copper (UG/L)	18	29	11.0	MW97-3	02 Oct 2006	23.0	M03-09	2004 02 (Summer)
Lead (UG/L)	23	29	57.0	OU2B-MW01	02 Oct 2006	97.0 J	MW360-1	2004 04 (Winter)
Manganese (UG/L)	7	7	17000 J	M03-16	02 Oct 2006	19000	M03-16	2006 01 (Spring)
Mercury (UG/L)	3	29	0.088 J	M03-09	08 Mar 2007	0.13 J	MW360-3	2005 02 (Summer)
Molybdenum (UG/L)	3	7	3.0 J	OU2B-MW05	28 Sep 2006	390	M04-05	2002 03 (Fall)
Nickel (UG/L)	29	29	860	MW360-1	13 Mar 2007	870	MW360-1	2006 01 (Spring)
Selenium (UG/L)	19	29	0.96 J	M03-10	09 Mar 2007	65.0	M03-09	2002 04 (Winter)
Silver (UG/L)	10	29	4.3 J	OU2B-MW02	13 Jul 2006	4.5 J	M11-05	2006 01 (Spring)
Thallium (UG/L)	4	29	1.2 J	M03-10	28 Sep 2006	18.0	M03-09	2006 01 (Spring)
Vanadium (UG/L)	4	7	3.0	OU2B-MW03	18 Dec 2006	52.3	M03-10	2003 04 (Winter)
Zinc (UG/L)	29	29	55.0	M03-15	09 Mar 2007	200	37-MJ-MW1	2005 02 (Summer)
Aluminum (UG/L)	6	7	250	M03-16	09 Mar 2007	970 J	WA-8	2002 02 (Summer)
Iron (UG/L)	7	7	110000	OU2B-MW01	02 Oct 2006	31000	OU2B-MW01	2006 01 (Spring)
Calcium (MG/L)	7	7	650	M03-16	09 Mar 2007	720	M03-16	2006 01 (Spring)
Magnesium (MG/L)	7	7	2300 J	M03-16	02 Oct 2006	2300	M03-16	2006 01 (Spring)
Potassium (MG/L)	7	7	550	M03-16	09 Mar 2007	700	M03-09	2003 04 (Winter)
Sodium (MG/L)	7	7	19000 J	M03-16	02 Oct 2006	19000	M03-16	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	2	8	0.31 J	D03-01	08 Mar 2007	18.1 J	D04-01	2003 02 (Summer)
Arsenic (UG/L)	8	8	4.6 J	D04-03	27 Sep 2006	76.0	D03-01	2003 04 (Winter)
Barium (UG/L)	3	3	58.0	D03-03	08 Mar 2007	69.9 J	D03-01	2003 02 (Summer)
Beryllium (UG/L)	1	8	0.20 J	D03-03	08 Mar 2007	0.81 J	D04-03	2006 01 (Spring)
Cadmium (UG/L)	5	8	2.8 J	D03-03	26 Sep 2006	13.0	D11-01	2006 01 (Spring)
Chromium (UG/L)	7	8	24000	D03-03	26 Sep 2006	21000	D03-03	2006 01 (Spring)
Cobalt (UG/L)	3	3	210	D03-03	26 Sep 2006	220	D03-03	2006 01 (Spring)
Lead (UG/L)	2	8	0.41 J	D03-03	26 Sep 2006	100 J	D04-03	2004 04 (Winter)
Manganese (UG/L)	3	3	26000	D03-03	08 Mar 2007	33000	D03-03	2006 01 (Spring)
Mercury (UG/L)	2	8	0.088 J	D03-01	26 Sep 2006	0.12 J	D03-04	2006 01 (Spring)
Molybdenum (UG/L)	2	3	72.0	D03-04	27 Sep 2006	77.0	D03-04	2006 01 (Spring)
Nickel (UG/L)	8	8	33000	D03-03	26 Sep 2006	39000	D03-03	2006 01 (Spring)
Selenium (UG/L)	6	8	0.46 J	D03-01	08 Mar 2007	78.0	D04-02	2002 04 (Winter)
Silver (UG/L)	5	8	0.10 J	D04-02	08 Mar 2007	9.3	D04-01	2006 01 (Spring)
Thallium (UG/L)	1	8	0.43 J	D03-01	08 Mar 2007	15.0	D03-01	2004 04 (Winter)
Vanadium (UG/L)	2	3	31.0	D03-03	26 Sep 2006	35.0	D03-03	2006 01 (Spring)
Zinc (UG/L)	8	8	160	D03-03	26 Sep 2006	85.0	D03-03	2006 01 (Spring)
Aluminum (UG/L)	2	3	220	D03-03	08 Mar 2007	1800	D04-01	2002 02 (Summer)
Iron (UG/L)	3	3	230000 J	D03-03	26 Sep 2006	260000	D03-03	2006 01 (Spring)
Calcium (MG/L)	3	3	670	D03-03	08 Mar 2007	1610	D04-02	2003 04 (Winter)
Magnesium (MG/L)	3	3	1500	D03-02	08 Mar 2007	2890	D04-03	2003 02 (Summer)
Potassium (MG/L)	3	3	410	D03-02	08 Mar 2007	420	D03-02	2006 01 (Spring)
Sodium (MG/L)	3	3	13000	D03-02	08 Mar 2007	17000	D04-03	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	1200	398-MW4	07 Mar 2007	1310	M03-06	2003 04 (Winter)
Sulfide (MG/L)	3	7	0.55	M03-05	12 Mar 2007	0.61	M03-06	2006 01 (Spring)
Alkalinity, bicarbonate (MG/L)	7	7	1200	398-MW4	07 Mar 2007	1310	M03-06	2003 04 (Winter)
Alkalinity, carbonate (MG/L)	1	7	74.0	M03-06	12 Mar 2007	76.0	M03-06	2004 02 (Summer)
Total Dissolved Solids (MG/L)	19	19	8840	OU2B-MW02	12 Mar 2007	47400	M03-05	2005 02 (Summer)
Nitrate (MG/L)	9	19	3.3	M04-06	08 Mar 2007	7.9	M04-06	2004 04 (Winter)
Chloride (MG/L)	20	20	8500	OU2B-MW05	13 Mar 2007	25000	M03-05	2005 02 (Summer)
Sulfate (as SO4) (MG/L)	18	20	1300	OU2B-MW05	13 Mar 2007	4000	M03-05	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 5.1-8

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2B - IR Site 3 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2B - IR Site 3 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	3	3	940	D11-01	08 Mar 2007	1100	D11-01	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	3	3	940	D11-01	08 Mar 2007	1100	D11-01	2004 04 (Winter)
Total Dissolved Solids (MG/L)	5	5	46000	D04-03	08 Mar 2007	57600	D04-03	2005 02 (Summer)
Chloride (MG/L)	5	5	27000	D04-03	08 Mar 2007	32100	D04-03	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	5	5	5000	D11-01	08 Mar 2007	5900	D11-01	2004 04 (Winter)

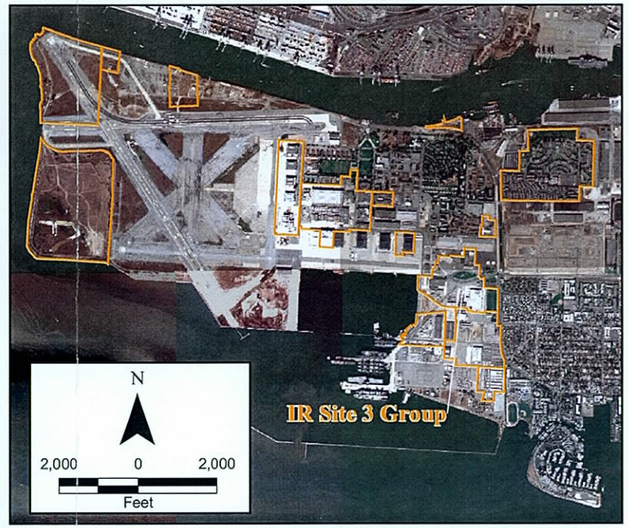
Result exceeds Maximum Contaminant Level (MCL)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

2002 Projects\...25.11\Graphics\Alameda Point GIS\2007 Maps\Site 3 Well Locs.mxd

Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 5.1-1
OPERABLE UNIT 2B - IR SITE 3 GROUP
SITE AND WELL LOCATION MAP

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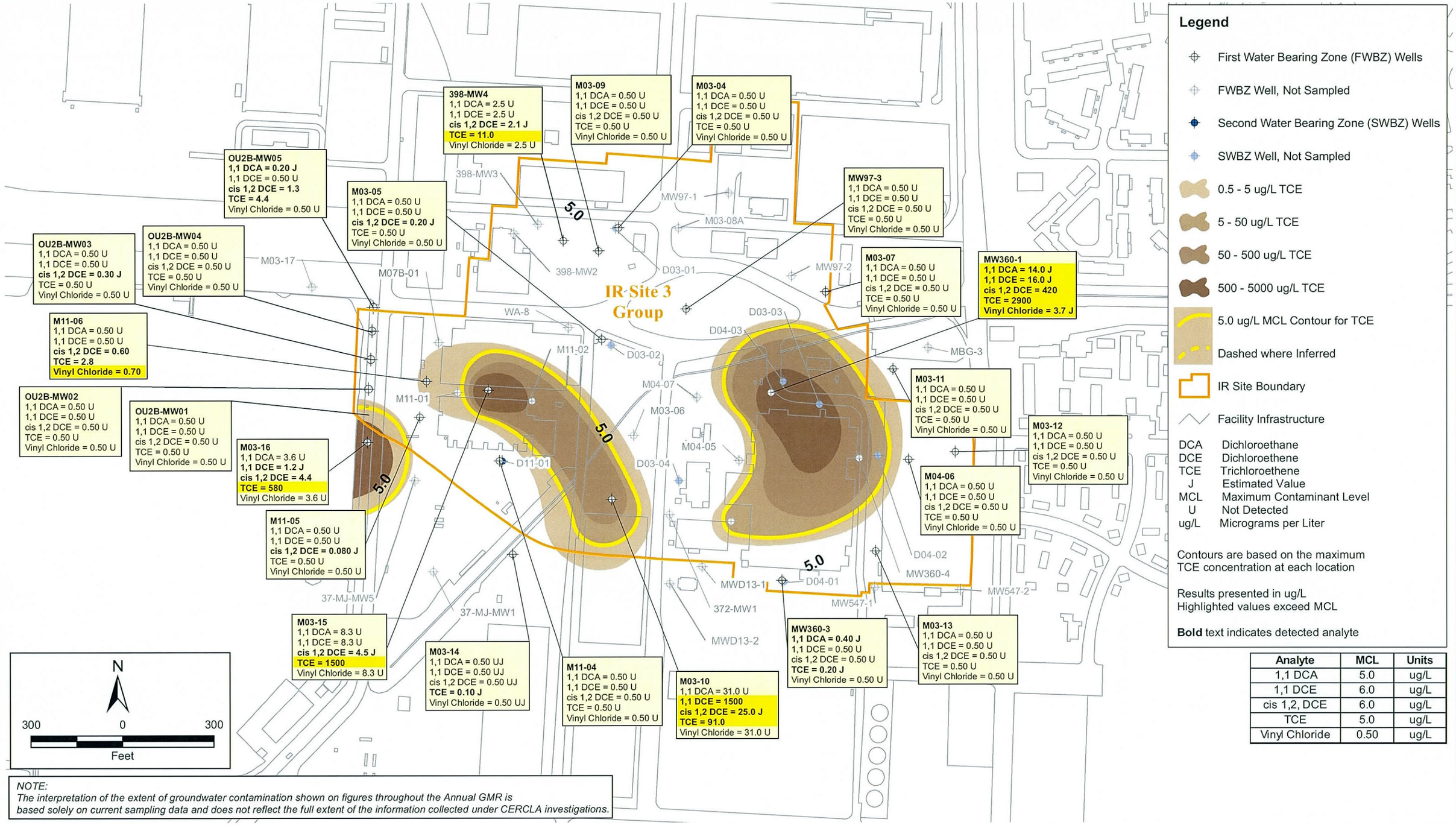
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 5.1-2
OPERABLE UNIT 2B - IR SITE 3 GROUP
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007\Maps\Site 3 GW Contours Spr 2007.mxd



Legend

- First Water Bearing Zone (FWBZ) Wells
- FWBZ Well, Not Sampled
- Second Water Bearing Zone (SWBZ) Wells
- SWBZ Well, Not Sampled
- 0.5 - 5 ug/L TCE
- 5 - 50 ug/L TCE
- 50 - 500 ug/L TCE
- 500 - 5000 ug/L TCE
- 5.0 ug/L MCL Contour for TCE
- Dashed where Inferred
- IR Site Boundary
- Facility Infrastructure

DCA	Dichloroethane
DCE	Dichloroethene
TCE	Trichloroethene
J	Estimated Value
MCL	Maximum Contaminant Level
U	Not Detected
ug/L	Micrograms per Liter

Contours are based on the maximum TCE concentration at each location

Results presented in ug/L
Highlighted values exceed MCL

Bold text indicates detected analyte

Analyte	MCL	Units
1,1 DCA	5.0	ug/L
1,1 DCE	6.0	ug/L
cis 1,2, DCE	6.0	ug/L
TCE	5.0	ug/L
Vinyl Chloride	0.50	ug/L

NOTE:
The interpretation of the extent of groundwater contamination shown on figures throughout the Annual GMR is based solely on current sampling data and does not reflect the full extent of the information collected under CERCLA investigations.

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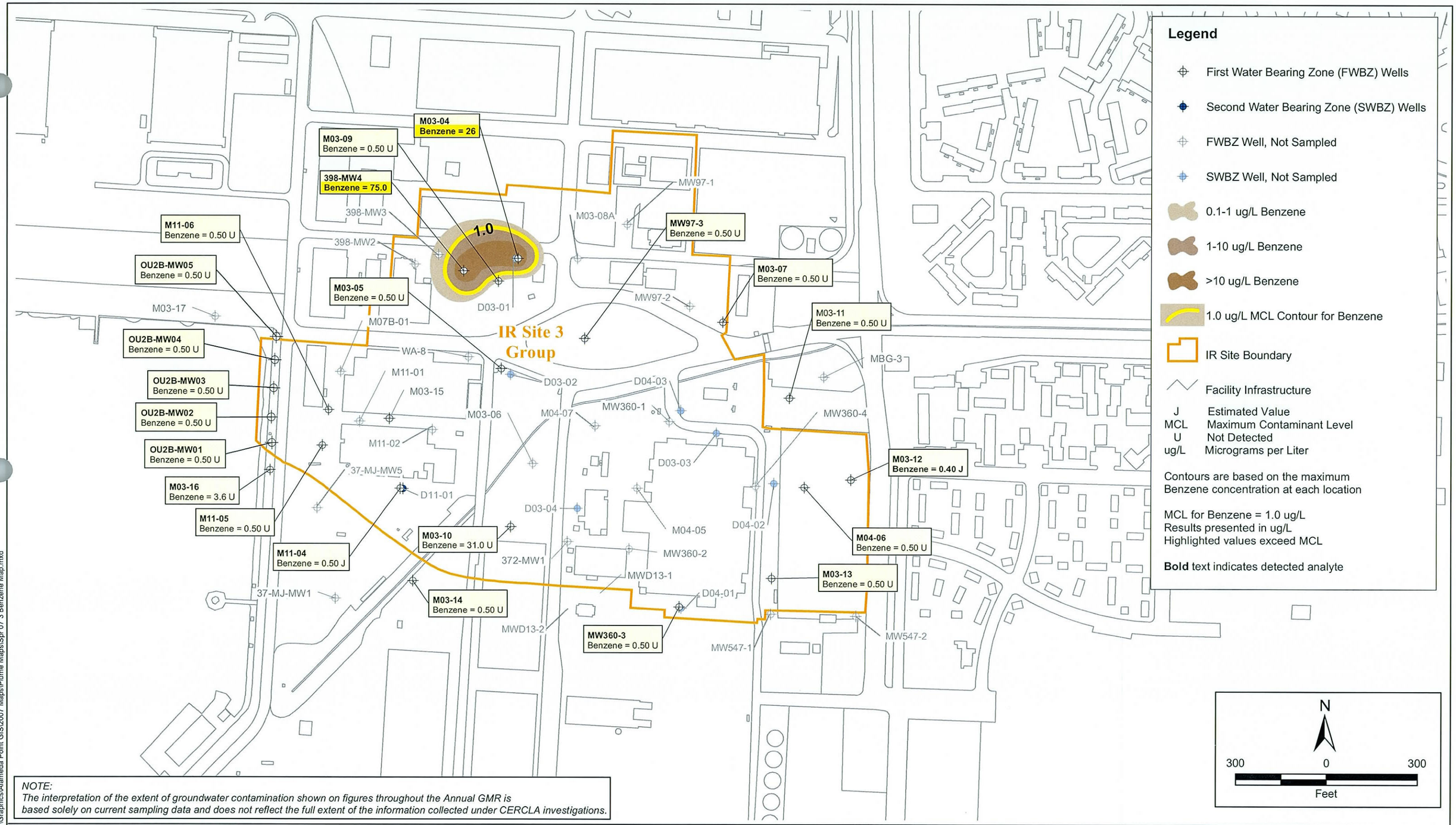
FIGURE 5.1-3
OPERABLE UNIT 2B - IR SITE 3 GROUP
GROUNDWATER DISTRIBUTION OF
SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2007

2002 Projects\xx-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 3 Chloroinated HydroC Map.mxd



NOTE:
The interpretation of the extent of groundwater contamination shown on figures throughout the Annual GMR is based solely on current sampling data and does not reflect the full extent of the information collected under CERCLA investigations.

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FIGURE 5.1-4
OPERABLE UNIT 2B - IR SITE 3 GROUP
GROUNDWATER BENZENE CONCENTRATIONS
IN FWBZ WELLS
SPRING 2007

2002 Projects\25.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 3 Benzene Map.mxd

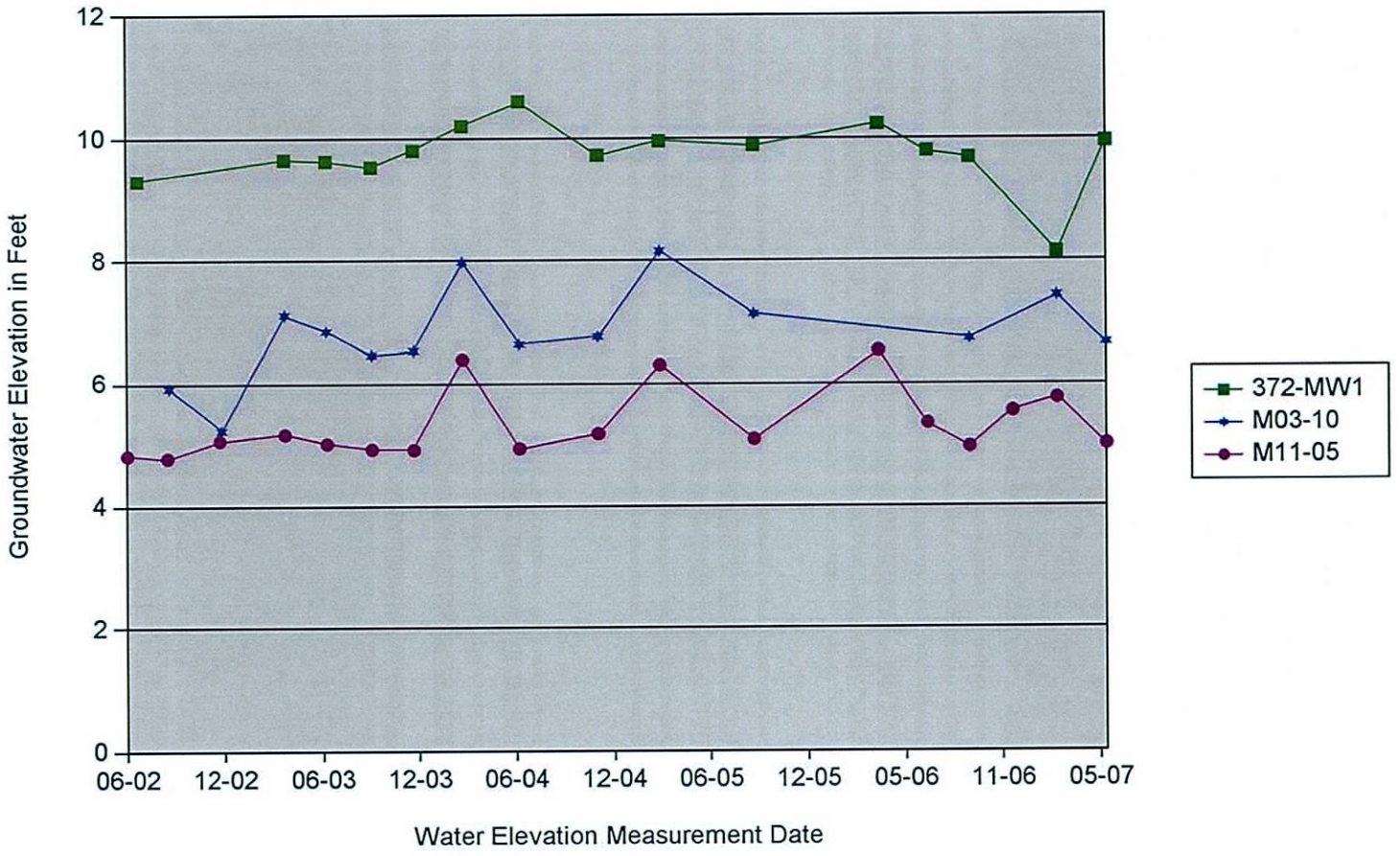

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FIGURE 5.1-5a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2B- IR SITE 3 GROUP:
NORTH-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 3\Figure 5.1-5a.ai

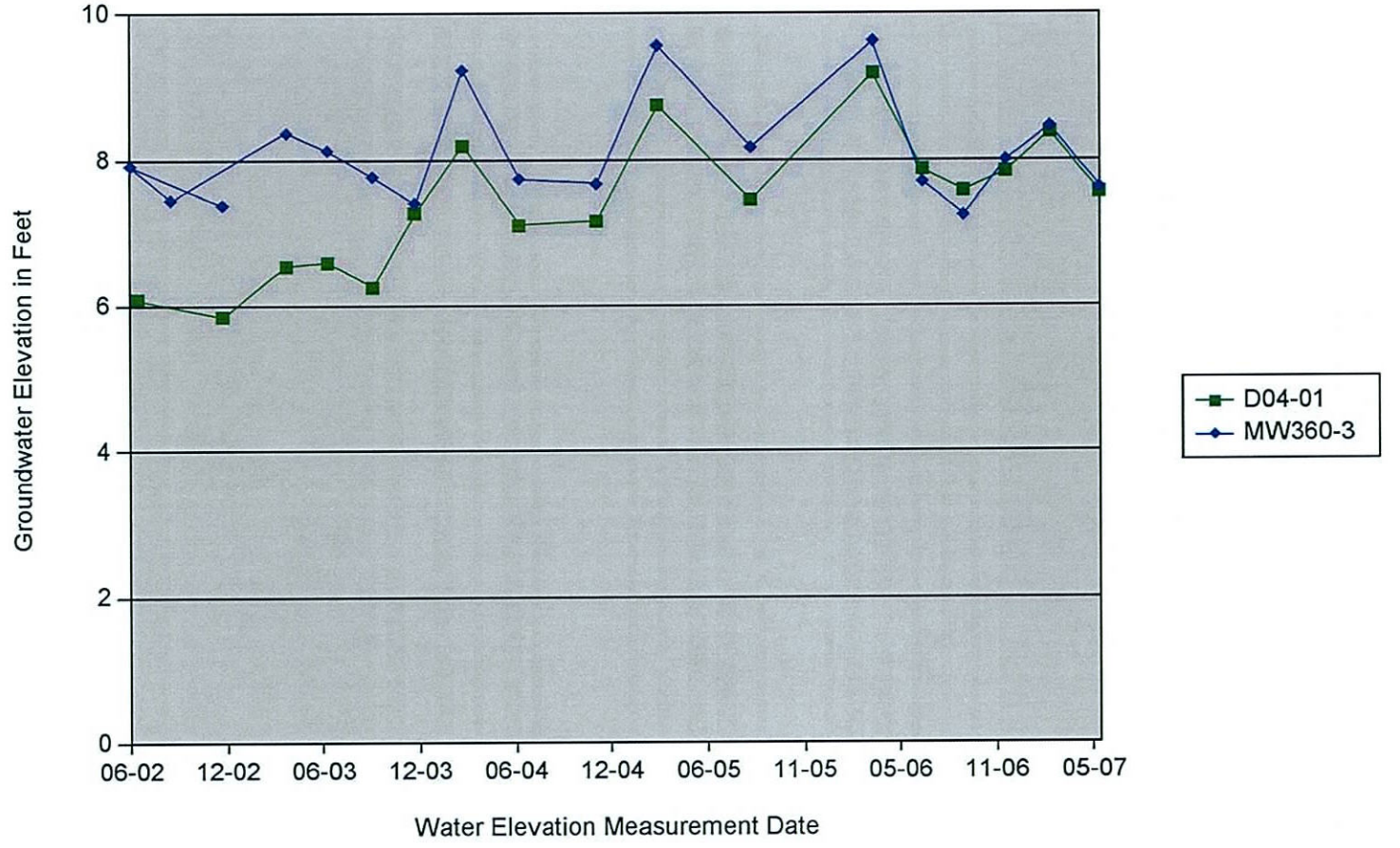

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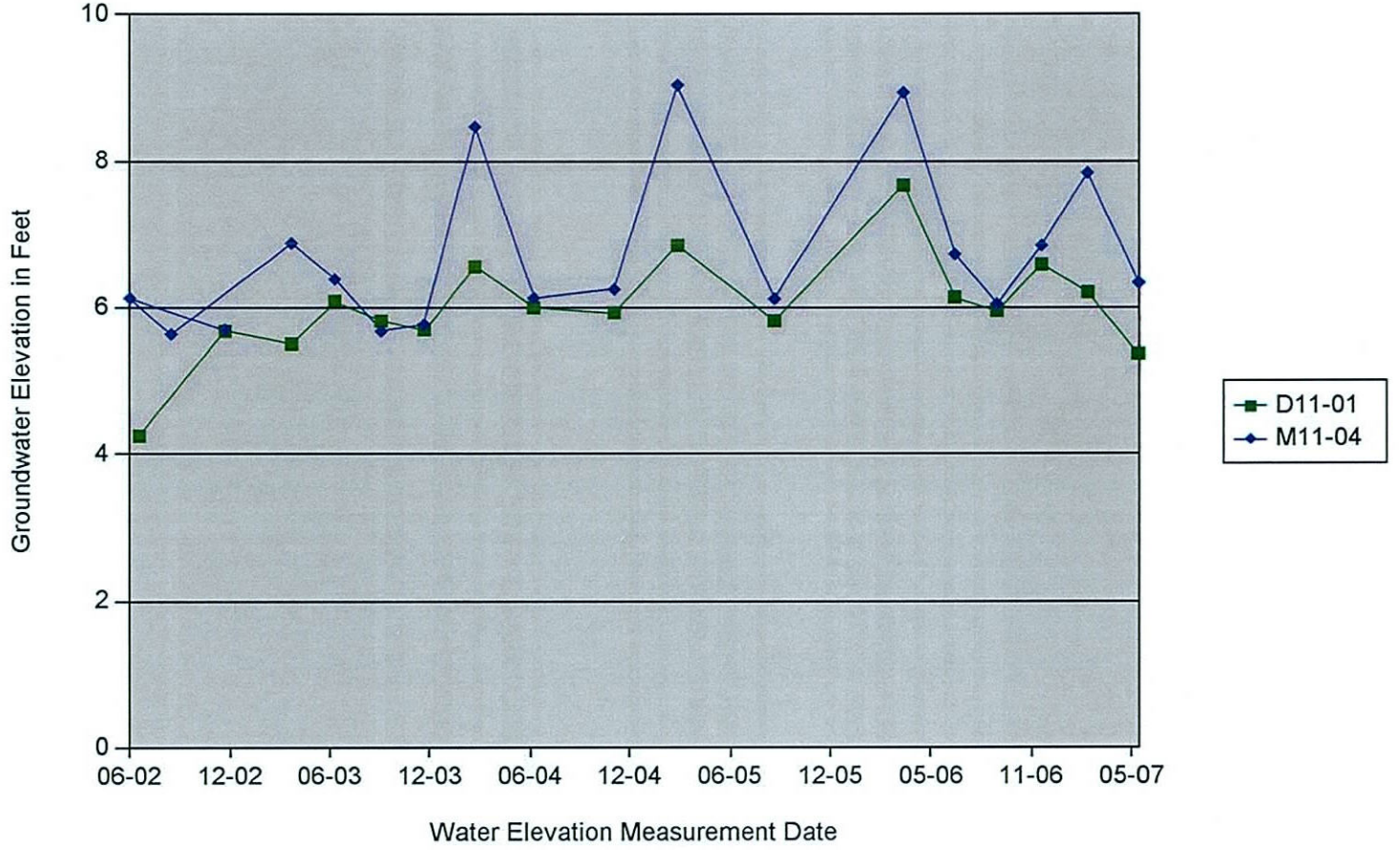
FIGURE 5.1-5b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2B- IR SITE 3 GROUP:
SWBZ WELL D04-01 AND CO-LOCATED FWBZ WELL MW360-3
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 3\Figure 5.1-5b.ai



2002 Projects\02-125.11\Graphics\Hydrographs\Site 3\Figure 5.1-5c.ai

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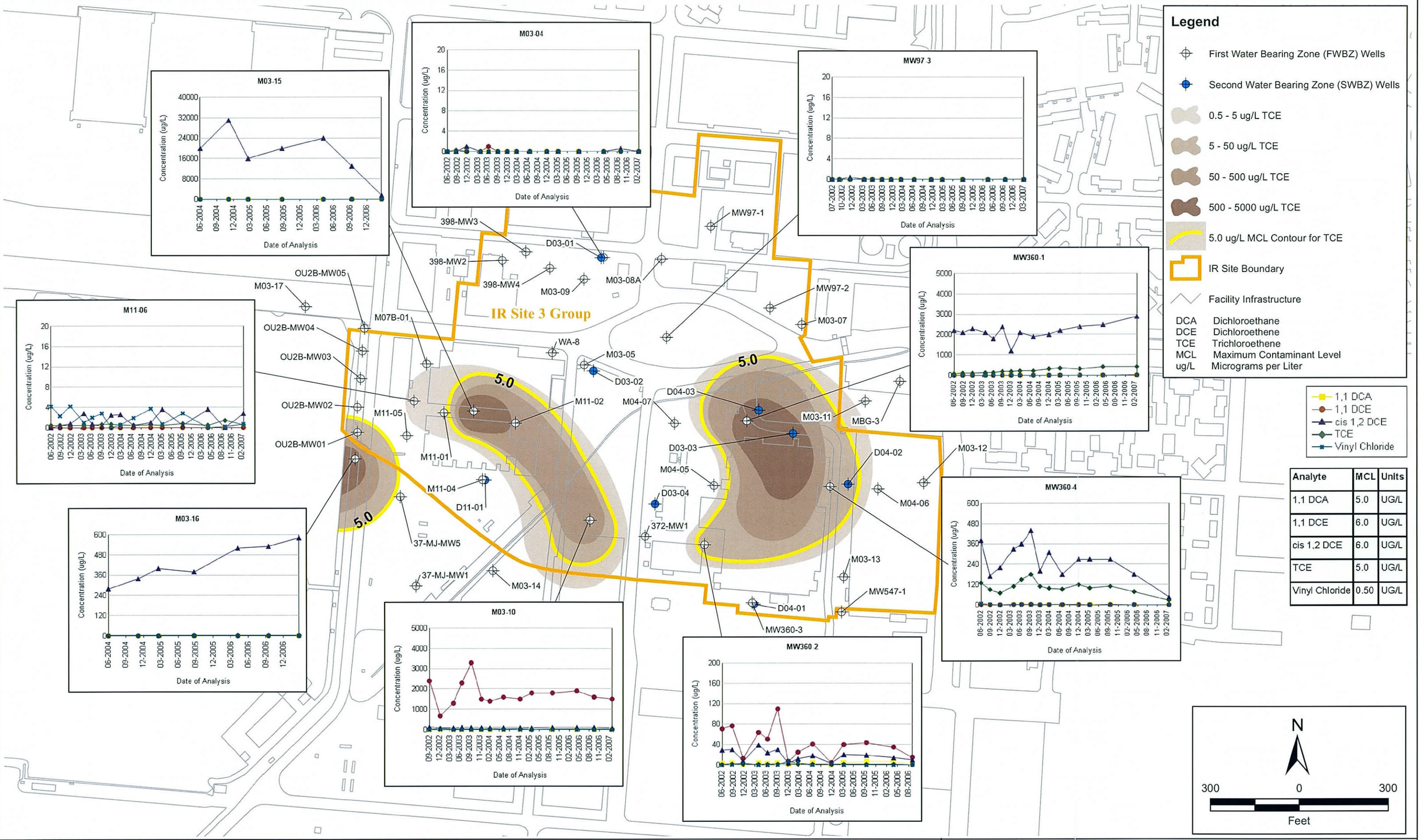
FIGURE 5.1-5c
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2B- IR SITE 3 GROUP:
SWBZ WELL D11-01 AND CO-LOCATED FWBZ WELL M11-04
SUMMER 2002 THROUGH SPRING 2007



Analyte	MCL	Units
1,1 DCA	5.0	UG/L
1,1 DCE	6.0	UG/L
cis 1,2 DCE	6.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

2002 Projects\02-125-11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 3 Chlor HysnoC Spr 2007.mxd

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FIGURE 5.1-6
OPERABLE UNIT 2B - IR SITE 3 GROUP
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

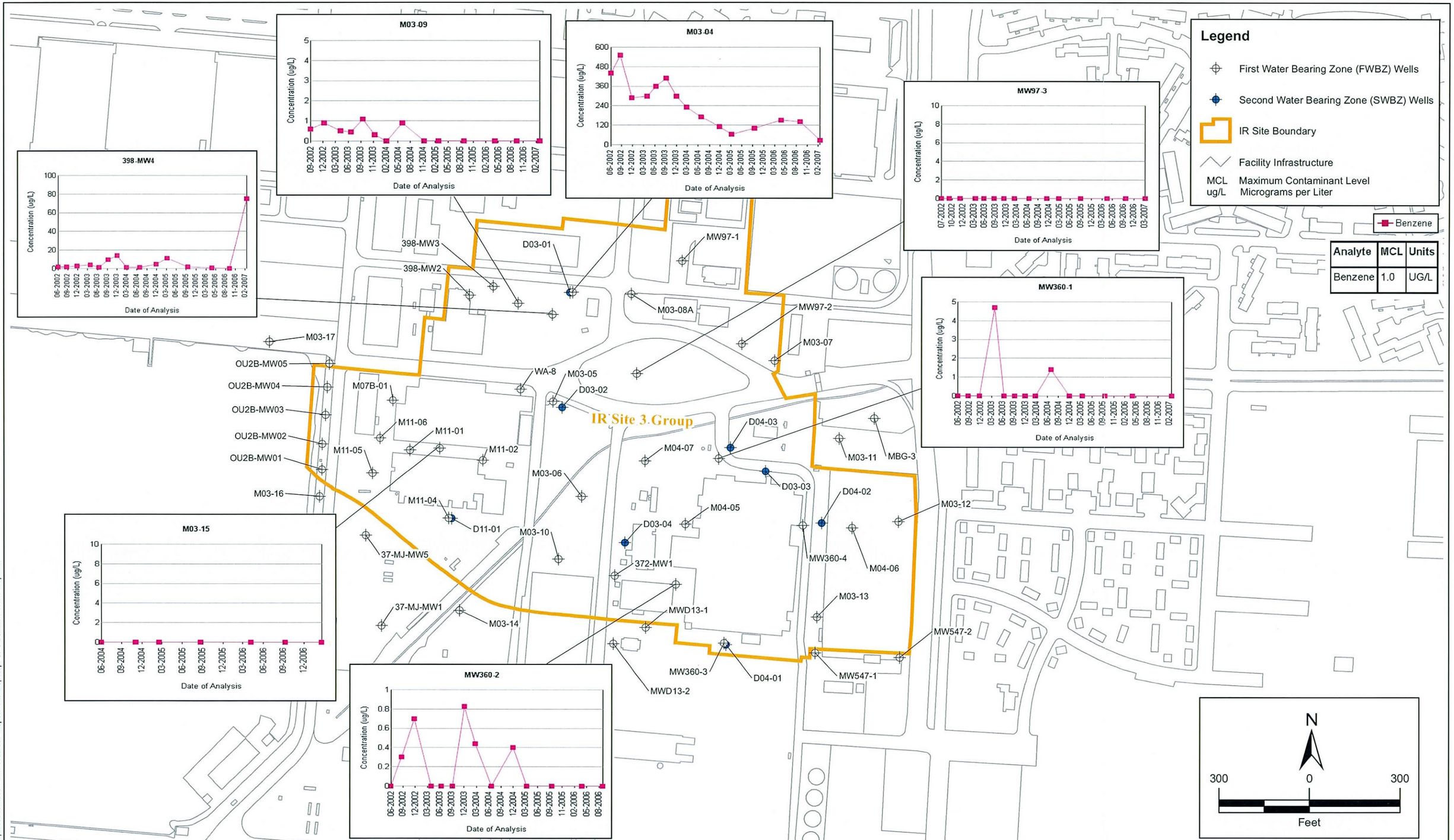

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FIGURE 5.1-7
OPERABLE UNIT 2B - IR SITE 3 GROUP
GROUNDWATER CONCENTRATIONS OF BENZENE
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

6.0 OPERABLE UNIT 2C

Operable Unit 2C is comprised of Installation Restoration Site 5 Group.

6.1 INSTALLATION RESTORATION SITE 5 GROUP

The IR Site 5 Group includes IR Sites 5, 10, and 12, which represent the former central industrial area of Alameda Point north of the Seaplane Lagoon (Figure 1-2). Additional background information is available in the Draft OU-2 *Remedial Investigation Report* (Tetra Tech, 1999b), and the OU-1 and OU-2 Data Gap Summary Report (Tetra Tech, 2002).

IR Site 5 consists of over 18 acres in the central portion of Alameda Point, including Building 5 (Aircraft Rework Facility), which is the largest building at Alameda Point. Building 5 is currently vacant, but housed specialty shops for aircraft component repair and maintenance beginning in 1942. Shops within Building 5 were used for the cleaning, reworking, and manufacturing of metal parts, tool maintenance, plating operations, and painting operations. The paint shop contained two paint bays and several smaller paint spray booths. A plating shop and a selective plating shop used to plate small items by hand were also housed within Building 5. Processes conducted in the plating shop included degreasing; caustic and acid etching; metal stripping and cleaning; and chrome, nickel, silver, cadmium, and copper plating. The painting and plating operations were discontinued in 1990 and 1993, respectively. Early waste handling practices included the discharge of liquid wastes into storm drains. However, upon completion of the Industrial Wastewater Treatment Plant (IWTP) near the southwestern corner of Building 5 most liquid waste from Building 5 was treated at the IWTP.

From 1940 through the early 1960s, radioluminescent aircraft instrument dials were refurbished with radium-226 on the second floor of Building 5. Radium paint waste from the process was washed down sink drains into the storm sewer system leading from Building 5 into the Seaplane Lagoon.

IR Site 10 (Building 400) is located approximately 750 feet north of Seaplane Lagoon. The building was operated as a missile rework facility from the mid-1950s until the base was closed.

Paint stripping, construction of fiberglass aircraft components, and aircraft parts cleaning operations generated such wastes as paint sludge, metal shavings, paint strippers, cleaning solvents (such as TCE and carbon tetrachloride), testing fluids and miscellaneous oils, and oil and grease.

Radium-226 was also used in Building 400 to refurbish luminescent aircraft instrument dials from the 1950s to the time of base closure. Refurbishing of the dials took place on the second floor of Building 400. During early operations, wastes containing radium paint were washed down the sink drains that led into the storm sewer system leading from Building 400 into the main line and out to Seaplane Lagoon. Waste handling processes were upgraded through time to comply with changes in regulations, and prior practices were terminated.

IR Site 12 includes Building 10, a 21,000-square-foot structure, and the surrounding area. Building 10 housed the former NAS Alameda power plant. The plant is no longer in operation. The boilers at the plant initially burned fuel oil for power generation. In the early 1970s, fuel oil use was discontinued and natural gas became the main fuel source. Diesel fuel was used as a backup fuel supply.

On July 21, 2003, the California Regional Water Quality Control Board issued a letter stating that "the quality and nature of the groundwater in the first and second water bearing zones beneath Alameda Point west of Saratoga Street are such that these waters are not potential sources of drinking water pursuant to State Board Resolution No. 88-63 and Regional Board Resolution 89-39." The regulatory agencies for Alameda Point concurred with this RWQCB finding. Therefore, maximum contaminant levels (MCLs) are not applicable as a regulatory limit at OU-2C. Analytical results are screened against MCLs as a means of comparison only.

As result of these past activities, chlorinated and non-chlorinated solvents and metals have been detected within the IR Site 5 Group groundwater, with VOC detections primarily concentrated under the eastern and central sections of Building 5 (Shaw, 2004). Remedial design investigations conducted at the Site indicate the presence of chlorinated solvent DNAPL s in the FWBZ east of Building 5 (southwest of Building 62) as deep as 45 feet bgs near the contact

between the BSU and the Merritt Sand. The deepest detections approach SWBZ depths, and vinyl chloride has been detected in the SWBZ. Elevated metal detections have occurred in the general location of the plating shop at the south end of Building 5. TPH in soil and groundwater associated with former UST locations have been detected beneath and south of Building 5.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 5 Group included sampling and analysis of 19 groundwater monitoring wells (13 FWBZ wells and six SWBZ wells). One FWBZ well, 2MW8S, was inaccessible during the current sampling year and no samples or groundwater-level measurements were collected from this well. Another 14 FWBZ groundwater monitoring wells and 3 SWBZ wells were used for quarterly groundwater-level measurements only. All groundwater monitoring points in the Summer 2006 through Spring 2007 program along with their analytical requirements are listed in Table 6.1-1. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 6.1-1.

6.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 25 FWBZ and eight SWBZ groundwater monitoring wells during the current sampling year (including the Summer 2006 through Spring 2007 sampling events) at Site 5 Group; monitoring well locations are shown on Figure 6.1-1. The results are presented, along with previously collected water-level data, in Table 6.1-2.

6.1.2 Analytical Parameters

Groundwater samples at IR Site 5 Group collected during the current sampling year were analyzed for the following parameters:

- TPH by EPA Method 8015B
- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C (included in the schedule; however, not analyzed during the current sampling year due to the inaccessibility of well, 2MW8S)
- PAHs by EPA Method 8310 (included in the schedule; however, not analyzed during the current sampling year due to the inaccessibility of well, 2MW8S)
- Dissolved Metals by EPA Methods 6010B/6020A/7470A/7196A

- Organochlorine Pesticides by EPA Method 8081A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

Table 6.1-1 lists the IR Site 5 Group groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well. Sampling of eight wells (M05-02, M05-05, M05-06, M05-09, D05-01, D05-03, D05-04, and D05-05) within IR Site 5 Group (OU-2C) was deferred in Spring 2007 to the concurrent Data Gap Investigation. Analytical results for these wells for Spring 2007 will be incorporated into the data tables for IR Site 5 Group for the Fall 2007 deliverable.

6.1.3 Analytical Results Summary

The analytical results for the current sampling year are summarized in the following sections, and listed along with previously obtained analytical data in the following tables:

- Table 6.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007"
- Table 6.1-4, "Groundwater Sample Analytical Results: Semivolatile Organic Compounds at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007"
- Table 6.1-5, "Groundwater Sample Analytical Results: Polycyclic Aromatic Hydrocarbons at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007"
- Table 6.1-6, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007"
- Table 6.1-7, "Groundwater Sample Analytical Results: Organochlorine Pesticides at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007"
- Table 6.1-8, "Groundwater Sampling Field Parameters at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007"
- Table 6.1-9, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group, Summer 2002 through Spring 2007".

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs, even though MCLs are not directly applicable due to the location of this site to

the west of Saratoga Street. Analytical results in the tables are also compared to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

6.1.4 Discussion of Results

Groundwater samples collected since the Summer 2002 sampling event indicate that groundwater concentrations of TPH have been low to non-detect for most of the site wells; only well 2MW8S has consistently exhibited TPH concentrations significantly greater than the reporting limit. This well was inaccessible during the current sampling year. One other well, however, showed benzene at a concentration greater than the MCL of 1.0 µg/L in Spring 2007. Well M05-11, located near the northwest margin of the site (see discussion in Section 6.1.4.2), indicated benzene at a concentration of 2.7 µg/L.

Concentrations of various chlorinated hydrocarbons have been consistently detected in groundwater samples collected from a few monitoring wells screened in the FWBZ at IR Site 5 Group. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 through Spring 2007 sampling year: **TCE, cis-1,2-DCE, 1,1-DCA, and vinyl chloride**. No analytes in the SWBZ wells exceeded their respective MCLs during the current sampling year (Table 6.1-3). The distribution of chlorinated organic compounds at IR Site 5 Group is discussed in greater detail in Section 6.1.4.2.

Analysis was not performed for SVOCs and PAHs during the current sampling year (Table 6.1-4) due to the inaccessibility of well, 2MW8S.

Arsenic was the only dissolved metal detected in excess of MCLs in the FWBZ (Table 6.1-6). Arsenic was detected above its MCL in three of the 12 wells analyzed for arsenic; however, the highest arsenic values were only slightly higher than the background value for arsenic of 20.7 µg/L. Cadmium has frequently been above the MCL at well 2MW8S, and may be related to the same contaminant source responsible for the volatile organics. Selenium and thallium were detected in SWBZ wells at concentrations exceeding MCLs during the Summer 2006 through Spring 2007 sampling year. There are no established background values for SWBZ groundwater at this time.

Although organochlorine pesticides were detected at IR Site 5 Group wells, none exceeded MCLs during the current sampling year (Table 6.1-7).

6.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 6.1-2. The groundwater flow direction in the FWBZ at IR Site 5 Group is generally toward a depression in the western part of the site, at a gradient of approximately 0.002 feet per foot. Groundwater flow direction in the SWBZ at IR Site 5 Group is generally toward a depression in the center of the site at a gradient of approximately 0.001 feet per foot.

6.1.4.2 Groundwater Contaminant Distribution

As noted in Section 6.1.3, certain chlorinated hydrocarbons are present in groundwater at IR Site 5 Group at concentrations exceeding the MCLs. The distribution of selected chlorinated hydrocarbons is shown on Figure 6.1-3. 1,1-DCA was chosen as an indicator compound for Figure 6.1-3 to represent the distribution of volatile organic constituents detected in groundwater at concentrations exceeding MCLs. The highest concentrations of volatile organic constituents are generally found in the vicinity of well 2MW8S in the central portion of IR Site 5. This well is screened in the shallow fill material of the FWBZ. Values above the MCLs for benzene and vinyl chloride are present in well M05-11 at the northwestern corner of Building 5. .

In groundwater of the SWBZ, well D05-04 had detections of TCE and vinyl chloride at concentrations above MCLs in the Summer 2005 sample. These compounds had not previously

been reported from this well. However, the location is close to the DNAPLs previously identified east of Building 5. Vinyl chloride had already been identified at one SWBZ well (D05-03) at concentrations greater than the MCL, but the detections at well D05-04 may mark incipient entry of contamination into the SWBZ near the DNAPL source area. The recent sample (Spring 2007) at D05-04 showed much lower to non-detect results for TCE and vinyl chloride.

In the current sampling year, arsenic exceeded MCLs in three wells in the IR Site 5 Group (Table 6.1-6). Arsenic has consistently exceeded MCLs in four wells since 2002 including well 2MW8S, which was not sampled during the current sampling year due to inaccessibility. Three of the four arsenic exceedances are in a downgradient (western) part of the site at wells 2MW8S, M05-06, and M117-E, and appear to represent low-level contamination (slightly above MCLs) of limited extent. The arsenic occurrence at well M05-08 represents at most a small isolated area of contamination. Selenium and thallium exceeded MCLs in SWBZ wells during the current sampling event as they have in the past. Concentrations of both selenium and thallium showed a sharp increased in SWBZ wells during the Spring 2007 event.

6.1.4.3 Comparison of Current Analytical Results with Historical Data

A comprehensive summary of the groundwater sampling analytical results for the current sampling year is provided in Table 6.1-10, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. In addition, Table 6.1-10 also lists the historical maximum concentration for each analyte. Concentrations exceeding MCLs are highlighted in yellow.

In general, many of the analytes detected and exceeding MCLs during the Summer 2006 through Spring 2007 sampling year were similar to previous sampling years, with the following exceptions:

- Concentrations of organic compounds detected during the current sampling year in the program wells are consistently lower (in some cases an order of magnitude lower) than the historical maximum concentrations for all analytes.

- Tetrachloroethene (PCE) and vinyl chloride concentrations formerly present above MCLs in SWBZ well D05-04 have decreased to significantly below MCLs.
- Selenium, thallium, and to a lesser degree, arsenic showed sharp increases in concentration in SWBZ wells during the Spring 2007 sampling event.

Figure 6.1-5 shows concentration trends through time for selected volatile organic compounds at four monitoring wells in IR Site 5 Group.

6.1.4.4 Trends in Groundwater Elevation Data

For IR Site 5 Group, three hydrographs have been prepared for the Spring 2007 Annual Report, as follows:

- Figure 6.1-4a, "Trends in Groundwater Elevations at Operable Unit 2C - IR Site 5 Group: East-West Oriented FWBZ Wells"
- Figure 6.1-4b, "Trends in Groundwater Elevations at Operable Unit 2C - IR Site 5 Group: FWBZ Well M05-04 and SWBZ Well D05-08, FWBZ Well M12-04 and SWBZ Well D12-01"
- Figure 6.1-4c, "Trends in Groundwater Elevations at Operable Unit 2C - IR Site 5 Group: Northwest-Southeast Oriented SWBZ Wells"

The following observations can be made from viewing the hydrographs:

- Groundwater elevations at IR Site 5 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. A similar pattern is apparent even for widely spaced monitoring wells (Figures 6.1-4a and 6.1-4c).
- An overall increase in groundwater elevations over time is apparent; i.e. peak seasonal elevations for most wells have shown a tendency to increase every year since 2002. These changes are likely due to an overall increase in precipitation during the measurement interval.
- Hydrographs for the two sets of co-located wells shown on Figure 6.1-4b indicate a downward vertical gradient between FWBZ and SWBZ wells that is consistent over time; i.e. groundwater elevations at FWBZ wells are always higher than at corresponding SWBZ wells.

A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is absent. The parallel seasonal variance of FWBZ and SWBZ wells suggests that such a

connection is possible at IR Site 5 Group. Evidence from contamination patterns (similar contamination in some SWBZ wells and FWBZ wells; see Section 6.1.4.5 below) is consistent with the concept of a potential hydraulic connection between the FWBZ and SWBZ at IR Site 5 Group.

6.1.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at IR Site 5 Group since monitoring was initiated at the site in Summer 2002. Figure 6.1-5 shows concentration trends through time for selected volatile organic compounds at four monitoring wells in IR Site 5 Group.

In general, this figure shows a downward trend through time for contaminants in well 2MW8S. The other wells on Figure 6.1-5 do not display clear increasing or decreasing trends. Evidence from wells M05-05, M05-06, and M05-08 does not suggest increases in contaminant concentrations in these locations. It should also be noted that the first occurrences of benzene and vinyl chloride above MCLs were noted in Spring 2006 at well M05-02.

6.1.5 Conclusions and Recommendations

As discussed in the previous subsections, IR Site 5 Group contaminants of potential concern include benzene, cadmium, and several chlorinated hydrocarbons. Trends over time, as shown on Figure 6.1-5, do not suggest any clear increasing or decreasing contaminant concentration trends.

Based on the remedial investigation and new wells installed in April 2007, changes in wells to be sampled, analytical parameters, and groundwater sampling frequency are recommended for groundwater sampling at the IR Site 5 Group during the next year. The wells, analytical parameters, and groundwater sampling frequency for groundwater sampling events during the next year are presented in Table 6.1-11. Additional recommended changes (also reflected in Table 6.1-11) include the following:

- Remove wells M-117-E and M12-04 from the sampling program for the next year (to be replaced by newly installed wells).
- For existing FWBZ wells, add semiannual 1,4-dioxane sampling and annual sampling for SVOCs and PAHs.

- For existing SWBZ wells, add annual 1,4-dioxane sampling. (Note that the sampling frequency for 1,4-dioxane mirrors the frequency of VOC analysis in each of the wells sampled for this parameter.)

After one year, the analytical results will be evaluated and changes to the sampling program will be recommended. The sampling during the next year is intended to be more frequent and comprehensive than the 2006-2007 sampling program so that 1) new wells have quarterly sampling for a large suite of analytes for one year and 2) data from new and existing wells can be collected during the same timeframe. It is anticipated that subsequent sampling will be more similar to the 2006-2007 program. For water level measurements, it is recommended that all currently measured existing wells and the 15 new wells be measured in the future.

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 6.1-1
Groundwater Monitoring Summary, Operable Unit 2C - IR Site 5 Group, Summer 2006 through Spring 2007

				Organic Compounds						Inorganic Compounds		Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells																
First	2MW8S	Fill	8.5 - 13.5	S[2]	S[2]	S[2]	A[2]	A[2]	S[2]	S[1,2]	S[2]	A[2]	A[2]	A[2]	A[2]	A[2]
	M05-02	Fill	4 - 14			S*				S*						
	M05-04	Fill	5 - 15	S	S	S				S[1]	S	A	A	A	A	A
	M05-05	Fill	4 - 14	S*	S*	S*				S[1*]	S*	A*	A*	A*	A*	A*
	M05-06	Fill	3 - 13	S*	S*	S*				S[1*]	S*					
	M05-08	Fill-BSU	7 - 15	S	S	S				S[1]	S	A	A	A	A	A
	M05-09	Fill	5 - 15	S	S	S				S[1]	S	A	A	A	A	A
	M05-11	Fill	5 - 15	S	S	S				S[1]	S	A	A	A	A	A
	M05HW-01		5 - 15	S	S	S				S[1]	S	A	A	A	A	A
	M10-01	Fill-BSU	4 - 14	S	S	S			S	S[1]	S	A	A	A	A	A
	M10-02	Fill	3 - 13	S	S	S				S[1]	S	A	A	A	A	A
	M117-E	Fill-BSU	8 - 18	S	S	S				S[1]	S	A	A	A	A	A
	M12-04	Fill-BSU	4 - 14	S	S	S				S[1]	S	A	A	A	A	A
Second	D05-01	Merritt	60 - 70	A*	A*	A*				A[1*]	A*	A*	A*	A*	A*	A*
	D05-03	Merritt-USA	57 - 67	S*	S*	S*				S[1*]	S*					
	D05-04	Lower Merritt	65 - 70			S*							A*	A*	A*	A*
	D05-05	Lower Merritt	65 - 70			S*							A*	A*	A*	A*
	D05-06	Lower Merritt	65.6 - 70.6			S							A	A	A	A
	D12-01	Merritt	60 - 70	A	A	A				A[1]	A	A	A	A	A	A

Table 6.1-1
Groundwater Monitoring Summary, Operable Unit 2C - IR Site 5 Group, Summer 2006 through Spring 2007

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds						Inorganic Compounds		Natural Attenuation Parameters				
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Non-Program Wells, Water Level Only																
First	M05-01	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-03	Fill	4 - 12	-	-	-	-	-	-	-	-	-	-	-	-	-
	M10-03	Fill	3 - 13	-	-	-	-	-	-	-	-	-	-	-	-	-
	M116-E	Fill	10 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05BS-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-12	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	MBG-4	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M110-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	M111-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	M115-E	Fill	7 - 12	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-02	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-03	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-	-	-
Second	D05-02	Fill	57 - 67	-	-	-	-	-	-	-	-	-	-	-	-	-
	D05-07	Lower Merritt	65 - 70	-	-	-	-	-	-	-	-	-	-	-	-	-
	D05-08	Lower Merritt	65 - 70	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 6.1-1
Groundwater Monitoring Summary, Operable Unit 2C - IR Site 5 Group, Summer 2006 through Spring 2007

				Organic Compounds						Inorganic Compounds		Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

* Well NOT SAMPLED during scheduled Spring 2007 event due to Supplemental RI sampling

\- Well not in analytical program.

[1] Priority Pollutant metals only

[2] Inaccessible due to six-phase heating operations

Fill - Artificial Fill

BSU - Bay Sediment Unit

USA - Upper San Antonio Formation

Merritt - Merritt Sand

FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method

SVOCs - Semivolatile Organic Compound

RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	2MW8S	12.64	12.64	03/07/07	Inaccessible	Inaccessible
		12.64	12.64	12/13/06	Inaccessible	Inaccessible
		12.64	12.64	09/25/06	Inaccessible	Inaccessible
		12.64	12.64	07/10/06	Inaccessible	Inaccessible
		12.64	12.64	04/11/06	6.06	6.58
		12.64	12.64	08/22/05	7.03	5.61
		12.64	12.64	03/01/05	6.81	5.83
		12.64	12.64	11/08/04	7.31	5.33
		12.64	12.64	06/15/04	7.14	5.50
		12.64	12.64	03/01/04	6.73	5.91
		12.64	12.64	12/03/03	7.34	5.30
First	M05-01	12.28	11.88 *	03/07/07	6.40	5.48
		12.28	11.88 *	12/13/06	6.81	5.07
		12.28	11.88 *	09/25/06	7.18	4.70
		12.28	11.88 *	07/10/06	6.78	5.10
		12.28	11.88 *	04/10/06	5.59	6.29
		12.28	11.88 *	08/22/05	6.97	4.91
		12.28	11.88 *	03/01/05	6.35	5.53
		12.28	11.88 *	11/08/04	7.16	4.72
		12.28	11.88 *	06/15/04	7.16	4.72
		12.28	11.88 *	03/01/04	6.50	5.38
		12.28	11.88 *	12/03/03	7.29	4.59
		12.28	11.88 *	09/16/03	7.21	4.67
		12.28	11.88 *	06/23/03	7.11	4.77
		12.28	11.88 *	04/07/03	7.11	4.77
		12.28	11.88 *	12/10/02	7.68	4.20
		12.28	11.88 *	09/10/02	7.75	4.13
		12.28	11.88 *	06/25/02	7.60	4.28
First	M05-02	11.47	11.47	03/07/07	NM	NC
		11.47	11.47	12/13/06	NM	NC
		11.47	11.47	09/25/06	6.71	4.76
		11.47	11.47	07/10/06	6.43	5.04
		11.47	11.47	04/10/06	5.79	5.68
		11.47	11.47	08/22/05	6.76	4.71
		11.47	11.47	03/01/05	6.20	5.27
		11.47	11.47	11/08/04	6.92	4.55
		11.47	11.47	06/15/04	6.79	4.68
		11.47	11.47	03/01/04	6.30	5.17
		11.47	11.47	12/03/03	6.96	4.51
		11.47	11.47	09/16/03	6.97	4.50
		11.47	11.47	06/23/03	6.75	4.72
		11.47	11.47	04/07/03	6.65	4.82
First	M05-03 ‡	10.93	10.93 **	03/07/07	NM	NC
		10.93	10.93 **	12/13/06	NM	NC
		10.93	10.93 **	09/25/06	5.20	5.73
		10.93	10.93 **	07/10/06	4.81	6.12
		10.93	10.93 **	04/10/06	3.76	7.17
		10.93	10.93 **	08/22/05	5.25	5.68
		10.93	10.93 **	03/01/05	4.05	6.88

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M05-03 ‡	10.93	10.93 **	11/08/04	5.41	5.52
		10.93	10.93 **	06/15/04	5.28	5.65
		10.93	10.93 **	03/01/04	4.06	6.87
		10.93	10.93 **	12/03/03	4.90	6.03
		10.93	10.93 **	09/16/03	5.56	5.37
		10.93	10.93 **	06/23/03	4.82	6.11
		10.93	10.93 **	04/07/03	4.71	6.22
First	M05-04 ‡	11.54	11.54 **	03/07/07	NM	NC
		11.54	11.54 **	12/13/06	NM	NC
		11.54	11.54 **	09/25/06	5.67	5.87
		11.54	11.54 **	07/10/06	5.31	6.23
		11.54	11.54 **	04/10/06	4.50	7.04
		11.54	11.54 **	08/22/05	5.75	5.79
		11.54	11.54 **	03/01/05	5.14	6.40
		11.54	11.54 **	11/08/04	6.07	5.47
		11.54	11.54 **	06/15/04	5.58	5.96
		11.54	11.54 **	03/01/04	5.21	6.38
		11.54	11.54 **	12/03/03	6.40	5.19
		11.54	11.54 **	09/16/03	6.19	5.40
		11.54	11.54 **	06/23/03	5.79	5.80
		11.54	11.54 **	04/07/03	5.84	5.75
First	M05-05	11.22	10.71 *	03/07/07	5.44	5.27
		11.22	10.71 *	12/13/06	5.28	5.43
		11.22	10.71 *	09/25/06	6.07	4.64
		11.22	10.71 *	07/10/06	5.87	4.84
		11.22	10.71 *	04/10/06	4.10	6.61
		11.22	10.71 *	08/22/05	6.21	4.50
		11.22	10.71 *	03/01/05	5.00	5.71
		11.22	10.71 *	11/08/04	6.29	4.42
		11.22	10.71 *	06/15/04	6.32	4.39
		11.22	10.71 *	03/01/04	5.00	5.71
		11.22	10.71 *	12/03/03	6.30	4.41
		11.22	10.71 *	09/16/03	6.28	4.43
		11.22	10.71 *	06/23/03	6.30	4.41
		11.22	10.71 *	04/07/03	6.26	4.45
		11.22	10.71 *	12/10/02	7.04	3.67
		11.22	10.71 *	09/10/02	6.95	3.76
		11.22	10.71 *	06/25/02	6.90	3.81
First	M05-06	10.04	10.22 **	03/07/07	6.50	3.72
		10.04	10.22 **	12/13/06	NM	NC
		10.04	10.22 **	09/25/06	6.98	3.24
		10.04	10.22 **	07/10/06	6.85	3.37
		10.04	10.22 **	04/10/06	5.91	4.31
		10.04	10.22 **	08/22/05	7.05	3.17
		10.04	10.22 **	03/01/05	6.65	3.57
		10.04	10.22 **	11/08/04	7.09	3.13
		10.04	10.22 **	06/15/04	7.10	3.12
		10.04	10.22 **	03/01/04	6.02	4.20
		10.04	10.22 **	12/03/03	7.04	3.18

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M05-06	10.04	10.22 **	09/16/03	7.04	3.18
		10.04	10.22 **	06/23/03	6.96	3.26
		10.04	10.22 **	04/07/03	7.04	3.18
		10.04	10.22 **	04/07/03	7.04	3.18
		10.04	10.22 **	09/10/02	6.75	3.47
		10.04	10.22 **	09/10/02	6.75	3.47
First	M05-08	13.30	13.11 *	03/07/07	6.83	6.28
		13.30	13.11 *	12/13/06	7.13	5.98
		13.30	13.11 *	09/25/06	7.23	5.88
		13.30	13.11 *	07/10/06	6.98	6.13
		13.30	13.11 *	04/10/06	5.59	7.52
		13.30	13.11 *	08/23/05	7.43	5.68
		13.30	13.11 *	03/01/05	6.64	6.47
		13.30	13.11 *	11/08/04	7.74	5.37
		13.30	13.11 *	06/15/04	7.70	5.41
		13.30	13.11 *	03/01/04	6.70	6.41
		13.30	13.11 *	12/03/03	7.96	5.15
		13.30	13.11 *	09/16/03	7.75	5.36
		13.30	13.11 *	06/23/03	7.37	5.74
		13.30	13.11 *	04/07/03	7.57	5.54
		13.30	13.11 *	12/10/02	8.70	4.41
		13.30	13.11 *	09/10/02	8.16	4.95
		13.30	13.11 *	07/10/02	8.22	4.89
First	M05-09	11.42	11.02 *	03/07/07	5.70	5.32
		11.42	11.02 *	12/13/06	6.32	4.70
		11.42	11.02 *	09/25/06	7.07	3.95
		11.42	11.02 *	07/10/06	6.71	4.31
		11.42	11.02 *	04/10/06	4.97	6.05
		11.42	11.02 *	08/22/05	6.52	4.50
		11.42	11.02 *	03/01/05	5.45	5.57
		11.42	11.02 *	11/08/04	6.26	4.76
		11.42	11.02 *	06/15/04	6.26	4.76
		11.42	11.02 *	03/01/04	5.35	5.67
		11.42	11.02 *	12/03/03	6.37	4.65
		11.42	11.02 *	09/16/03	6.49	4.53
		11.42	11.02 *	06/23/03	6.53	4.49
		11.42	11.02 *	04/07/03	6.39	4.63
		11.42	11.02 *	12/10/02	7.04	3.98
		11.42	11.02 *	09/10/02	6.78	4.24
		11.42	11.02 *	06/25/02	8.24	2.78
First	M05-10	13.18	12.87 *	09/25/06	NM	NC
		13.18	12.87 *	07/10/06	NM	NC
		13.18	12.87 *	04/11/06	NM	NC
		13.18	12.87 *	09/16/03	NM	NC
		13.18	12.87 *	06/23/03	7.18	5.69
		13.18	12.87 *	04/07/03	7.16	5.71
		13.18	12.87 *	12/24/02	7.40 §	5.47
		13.18	12.87 *	09/10/02	7.44	5.43
		13.18	12.87 *	07/11/02	7.20	5.67

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M05-11	12.65	12.65	03/07/07	7.22	5.43
		12.65	12.65	12/13/06	7.62	5.03
		12.65	12.65	09/25/06	7.67	4.98
		12.65	12.65	07/10/06	7.35	5.30
		12.65	12.65	04/10/06	6.46	6.19
First	M05-12	13.38	13.38	03/07/07	6.98	6.40
		13.38	13.38	12/13/06	7.28	6.10
		13.38	13.38	09/25/06	7.36	6.02
		13.38	13.38	07/10/06	7.11	6.27
		13.38	13.38	04/10/06	6.22	7.16
First	M05BS-01	12.22	12.22	03/07/07	6.05	6.17
		12.22	12.22	12/13/06	6.32	5.90
		12.22	12.22	09/25/06	6.81	5.41
		12.22	12.22	07/10/06	6.61	5.61
		12.22	12.22	04/10/06	4.79	7.43
First	M05HW-01	11.08	11.08	03/07/07	4.75	6.33
		11.08	11.08	12/13/06	Inaccessible	Inaccessible
		11.08	11.08	09/25/06	5.24	5.84
		11.08	11.08	07/10/06	5.02	6.06
		11.08	11.08	04/10/06	4.41	6.67
First	M10-01 ‡	10.35	10.39 **	03/07/07	3.90	6.49
		10.35	10.39 **	12/13/06	4.00	6.39
		10.35	10.39 **	09/25/06	4.49	5.90
		10.35	10.39 **	07/10/06	4.11	6.28
		10.35	10.39 **	04/10/06	3.21	7.18
		10.35	10.39 **	08/22/05	4.50	5.89
		10.35	10.39 **	03/01/05	3.63	6.76
		10.35	10.39 **	11/08/04	4.55	5.84
		10.35	10.39 **	06/15/04	4.42	5.97
		10.35	10.39 **	03/01/04	3.50	6.89
		10.35	10.39 **	12/03/03	4.06	6.33
		10.35	10.39 **	09/16/03	4.31	6.08
		10.35	10.39 **	06/23/03	3.91	6.48
		10.35	10.39 **	04/07/03	3.71	6.68
First	M10-02 ‡	10.75	10.75 **	03/07/07	3.81	6.94
		10.75	10.75 **	12/13/06	NM	NC
		10.75	10.75 **	09/25/06	4.62	6.13
		10.75	10.75 **	07/10/06	4.12	6.63
		10.75	10.75 **	04/10/06	3.11	7.64
		10.75	10.75 **	03/01/05	3.60	7.15
		10.75	10.75 **	11/08/04	4.45	6.30
		10.75	10.75 **	06/15/04	4.21	6.54
		10.75	10.75 **	03/01/04	3.32	7.51
		10.75	10.75 **	12/03/03	4.18	6.65
		10.75	10.75 **	09/16/03	4.38	6.45
		10.75	10.75 **	06/23/03	3.90	6.93
		10.75	10.75 **	04/07/03	3.57	7.26
First	M10-03 ‡	9.98	10.04 **	03/07/07	3.43	6.61
		9.98	10.04 **	12/13/06	3.80	6.24

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M10-03 ‡	9.98	10.04 **	09/25/06	4.13	5.91
		9.98	10.04 **	07/10/06	3.67	6.37
		9.98	10.04 **	04/10/06	2.95	7.09
		9.98	10.04 **	03/01/05	3.34	6.70
		9.98	10.04 **	11/08/04	4.15	5.89
		9.98	10.04 **	06/15/04	3.83	6.21
		9.98	10.04 **	03/01/04	2.80	7.24
		9.98	10.04 **	12/03/03	3.35	6.69
		9.98	10.04 **	09/16/03	3.61	6.43
		9.98	10.04 **	06/23/03	3.25	6.79
		9.98	10.04 **	04/08/03	3.96	6.08
First	M110-A	8.47	8.47	03/07/07	2.25	6.22
		8.47	8.47	12/13/06	3.57	4.90
		8.47	8.47	09/25/06	3.30	5.17
		8.47	8.47	07/10/06	2.91	5.56
		8.47	8.47	04/10/06	1.55	6.92
First	M111-A	10.48	10.48	03/09/07	3.51	6.97
		10.48	10.48	12/13/06	5.01	5.47
		10.48	10.48	09/25/06	5.21	5.27
		10.48	10.48	07/10/06	4.80	5.68
		10.48	10.48	04/10/06	3.83	6.65
First	M115-E	10.29	10.29	03/07/07	4.44	5.85
		10.29	10.29	12/13/06	4.86	5.43
		10.29	10.29	09/25/06	5.18	5.11
		10.29	10.29	07/10/06	4.81	5.48
		10.29	10.29	04/10/06	4.06	6.23
First	M116-E ‡	9.40	9.40	03/07/07	3.45	5.95
		9.40	9.40	12/13/06	NM	NC
		9.40	9.40	09/25/06	4.32	5.08
		9.40	9.40	07/10/06	3.95	5.45
		9.40	9.40	04/10/06	NM	NC
		9.40	9.40	08/23/05	NM	NC
		9.40	9.40	08/23/05	4.31	5.09
		9.40	9.40	03/01/05	3.12	6.28
		9.40	9.40	11/08/04	4.31	5.09
		9.40	9.40	06/15/04	4.29	5.11
		9.40	9.40	03/01/04	NM	NC
		9.40	9.40	12/03/03	4.08	5.32
		9.40	9.40	09/16/03	4.50	4.90
		9.40	9.40	06/23/03	4.12	5.28
		9.40	9.40	04/07/03	NM	NC
First	M117-E ‡	10.55	10.55	03/07/07	4.59	5.96
		10.55	10.55	12/13/06	5.10	5.45
		10.55	10.55	09/25/06	5.35	5.20
		10.55	10.55	07/10/06	4.91	5.64
		10.55	10.55	04/10/06	4.05	6.50
		10.55	10.55	08/23/05	5.44	5.11
		10.55	10.55	03/01/05	4.55	6.00
		10.55	10.55	11/08/04	5.43	5.12
		10.55	10.55	06/15/04	5.19	5.36

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M117-E ‡	10.55	10.55	03/01/04	4.30	6.25
		10.55	10.55	12/03/03	5.50	5.05
		10.55	10.55	09/16/03	6.42	4.13
		10.55	10.55	06/23/03	5.04	5.51
		10.55	10.55	04/07/03	5.04	5.51
First	M12-01	11.37	11.37	03/07/07	4.29	7.08
		11.37	11.37	12/13/06	4.79	6.58
		11.37	11.37	09/25/06	4.98	6.39
		11.37	11.37	07/10/06	4.59	6.78
		11.37	11.37	04/10/06	2.57	8.80
First	M12-02	10.75	10.75	03/07/07	3.79	6.96
		10.75	10.75	12/13/06	NM	NC
		10.75	10.75	09/25/06	4.18	6.57
		10.75	10.75	07/10/06	3.78	6.97
		10.75	10.75	04/10/06	3.12	7.63
First	M12-03	10.51	10.51	03/07/07	3.43	7.08
		10.51	10.51	12/13/06	3.42	7.09
		10.51	10.51	09/25/06	4.31	6.20
		10.51	10.51	07/10/06	3.85	6.66
		10.51	10.51	04/11/06	2.94	7.57
First	M12-04	10.79	10.40 *	03/07/07	3.18	7.22
		10.79	10.40 *	12/13/06	NM	NC
		10.79	10.40 *	09/12/06	3.91	6.49
		10.79	10.40 *	07/10/06	3.55	6.85
		10.79	10.40 *	04/10/06	2.44	7.96
		10.79	10.40 *	08/22/05	3.72	6.68
		10.79	10.40 *	03/01/05	2.96	7.44
		10.79	10.40 *	11/08/04	3.68	6.72
		10.79	10.40 *	06/15/04	3.78	6.62
		10.79	10.40 *	03/01/04	2.91	7.49
		10.79	10.40 *	12/03/03	3.85	6.55
		10.79	10.40 *	09/16/03	4.03	6.37
		10.79	10.40 *	06/23/03	3.71	6.69
		10.79	10.40 *	04/07/03	3.58	6.82
		10.79	10.40 *	12/10/02	4.44	5.96
		10.79	10.40 *	09/10/02	4.36	6.04
		10.79	10.40 *	06/25/02	4.05	6.35
Second	D05-01	12.17	12.02 *	03/07/07	6.34	5.68
		12.17	12.02 *	12/13/06	NM	NC
		12.17	12.02 *	09/25/06	6.34	5.68
		12.17	12.02 *	07/10/06	6.22	5.80
		12.17	12.02 *	04/10/06	5.62	6.40
		12.17	12.02 *	08/22/05	6.38	5.64
		12.17	12.02 *	03/01/05	6.01	6.01
		12.17	12.02 *	11/08/04	6.54	5.48
		12.17	12.02 *	06/15/04	6.68	5.34
		12.17	12.02 *	03/01/04	6.03	5.99
		12.17	12.02 *	12/03/03	6.94	5.08
		12.17	12.02 *	09/16/03	6.78	5.24
		12.17	12.02 *	06/23/03	6.70	5.32

Table 6.1-2
Summary of Groundwater Level Measurements at
Operable Unit 2C - IR Site 5,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D05-01	12.17	12.02 *	04/07/03	6.91	5.11
		12.17	12.02 *	12/10/02	7.30	4.72
		12.17	12.02 *	09/10/02	7.29	4.73
		12.17	12.02 *	07/12/02	7.21	4.81
Second	D05-03	9.86	9.86	03/07/07	3.79	6.07
		9.86	9.86	12/13/06	NM	NC
		9.86	9.86	09/25/06	3.81	6.05
		9.86	9.86	07/10/06	3.67	6.19
		9.86	9.86	04/10/06	3.02	6.84
		9.86	9.86	08/22/05	4.40	5.46
		9.86	9.86	03/01/05	4.10	5.76
		9.86	9.86	11/08/04	4.75	5.11
		9.86	9.86	06/15/04	4.82	5.04
		9.86	9.86	03/01/04	4.28	5.58
		9.86	9.86	12/03/03	4.55	5.31
		9.86	9.86	09/16/03	4.44	5.42
		9.86	9.86	06/23/03	3.89	5.97
		9.86	9.86	04/07/03	4.81	5.05
		9.86	9.86	09/10/02	5.30	4.56
Second	D05-04	12.67	12.67	03/07/07	7.90	4.77
		12.67	12.67	12/13/06	8.02	4.65
		12.67	12.67	09/25/06	7.94	4.73
		12.67	12.67	07/10/06	7.81	4.86
		12.67	12.67	04/10/06	7.20	5.47
		12.67	12.67	08/22/05	7.90	4.77
		12.67	12.67	03/01/05	7.49	5.18
		12.67	12.67	11/08/04	8.05	4.62
		12.67	12.67	06/15/04	8.19	4.48
Second	D05-05	12.07	12.07	03/07/07	7.29	4.78
		12.07	12.07	12/13/06	7.40	4.67
		12.07	12.07	09/25/06	7.24	4.83
		12.07	12.07	07/10/06	7.18	4.89
		12.07	12.07	04/10/06	6.50	5.57
		12.07	12.07	08/22/05	7.27	4.80
		12.07	12.07	03/01/05	6.80	5.27
		12.07	12.07	11/08/04	7.43	4.64
		12.07	12.07	06/15/04	7.54	4.53
Second	D05-06	11.96	11.96	03/07/07	7.13	4.83
		11.96	11.96	12/13/06	7.36	4.60
		11.96	11.96	09/25/06	7.21	4.75
		11.96	11.96	07/10/06	7.15	4.81
		11.96	11.96	04/10/06	6.50	5.46
		11.96	11.96	08/22/05	7.31	4.65
		11.96	11.96	03/01/05	7.01	4.95
		11.96	11.96	11/08/04	7.41	4.55
		11.96	11.96	06/15/04	7.54	4.42
Second	D05-07	11.69	11.69	03/07/07	6.30	5.39
		11.69	11.69	12/13/06	6.52	5.17
		11.69	11.69	09/25/06	6.36	5.33

Table 6.1-2
Summary of Groundwater Level Measurements at Operable Unit 2C - IR Site 5, Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D05-07	11.69	11.69	07/10/06	6.24	5.45
		11.69	11.69	04/10/06	5.72	5.97
		11.69	11.69	08/23/05	6.59	5.10
		11.69	11.69	03/01/05	6.47	5.22
		11.69	11.69	11/08/04	7.02	4.67
		11.69	11.69	06/15/04	7.40	4.29
Second	D05-08	11.10	11.10	03/07/07	6.42	4.68
		11.10	11.10	12/13/06	6.46	4.64
		11.10	11.10	09/25/06	6.33	4.77
		11.10	11.10	07/10/06	6.02	5.08
		11.10	11.10	04/10/06	5.75	5.35
		11.10	11.10	08/22/05	6.44	4.66
		11.10	11.10	03/01/05	6.62	4.48
		11.10	11.10	11/08/04	6.44	4.66
		11.10	11.10	06/15/04	6.56	4.54
Second	D12-01	10.96	10.76 *	03/07/07	5.02	5.74
		10.96	10.76 *	12/13/06	5.21	5.55
		10.96	10.76 *	09/25/06	5.15	5.61
		10.96	10.76 *	07/10/06	5.16	5.60
		10.96	10.76 *	04/10/06	4.50	6.26
		10.96	10.76 *	08/22/05	5.24	5.52
		10.96	10.76 *	03/01/05	5.04	5.72
		10.96	10.76 *	11/08/04	5.75	5.01
		10.96	10.76 *	06/15/04	5.57	5.19
		10.96	10.76 *	03/01/04	5.11	5.65
		10.96	10.76 *	12/03/03	6.10	4.66
		10.96	10.76 *	09/16/03	6.00	4.76
		10.96	10.76 *	06/23/03	5.95	4.81
		10.96	10.76 *	04/07/03	6.22	4.54
		10.96	10.76 *	12/10/02	6.54	4.22
		10.96	10.76 *	09/10/02	6.56	4.20
		10.96	10.76 *	07/12/02	6.25	4.51

Notes:

BTOC = below top of casing

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

§ = Measured prior to purging well for sampling

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	< 50.0	140	< 300	1200	1340	< 170	< 170	< 170	< 170	< 170	< 670	< 170	< 170	< 170	< 170	< 170	< 170	< 170	53.0 J	< 170	< 170	1900	< 170	310	< 170
		2005 02 (Summer)	< 50.0	< 50.0	< 300	9400	9400	< 830	< 830	< 830	< 830	< 830	< 3300	< 830	< 830	< 830	< 830	< 830	< 830	< 830	1500	< 830	< 830	18000	< 830	84000	< 830
		2005 01 (Spring)	470 J	420 J	180 J	4800	5870	< 200	< 200	< 200	< 200	< 200	< 800	< 200	< 200	< 200	< 200	< 200	< 200	< 200	440	< 200	< 200	9300	< 200	26000	< 200
		2004 04 (Winter)	230 J	< 250	< 1500	13000	13200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	84.0	720	44.0 J	< 50.0	10000	< 50.0	51000	36.0 J
		2004 02 (Summer)	23.0 J	< 50.0	< 300	35000	35000	< 310	< 310	< 310	< 310	< 310	< 2500	< 310	< 310	< 310	< 310	< 310	< 310	130 J	910	200 J	< 310	11000	< 310	94000	< 310
		2004 01 (Spring)	< 190	230 J	< 190	3800	4030	3.0 J	3.0 J	< 10.0	< 10.0	< 10.0	< 20.0	< 50.0	< 10.0	4.2 J	< 10.0	< 10.0	4.0 J	79.0	3900	21.0	5.9 J	17000	< 5.0	110000	170
		2003 04 (Winter)	< 190	< 280	200	7500	7700	< 0.50	6.0	0.80 J	3.2	0.92 J	2.1 J	< 5.0	0.76 J	4.9	0.41 J	1.2	12.0	240	9600 J	25.0	5.4	20000	< 0.50 UJ	360000	110
		2003 03 (Fall)	150 J	< 290	140 J	3170	3460	0.46 J	2.6	0.32 J	0.97 J	0.27 J	1.1 J	< 5.0	0.31 J	2.2	0.38 J	0.63 J	4.9	69.0 J	1900	10.0	< 1.0	11000	< 0.50	100000	56.0 J
	M05-01	2005 02 (Summer)	36.0 J	< 50.0	< 300	29.0 J	65.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-02	2007 01 (Spring)	-	-	-	-	-	0.21 J	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	6.2	6.8	18.0	1.3	14.0	< 0.50	< 0.50	0.87
		2006 03 (Fall)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	1.4	7.3	4.8	25.0	0.80	11.0	< 0.50	< 0.50	0.40 J
		2006 01 (Spring)	-	-	-	-	-	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	4.4	0.90	14.0	0.30 J	6.0	< 0.50	< 0.50	1.1
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	4.0	< 0.50	11.0	0.20 J	4.2	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	4.8	< 0.50	12.0	< 0.50	4.9	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	1.4	5.5	< 0.50	8.3	< 0.50	6.6	< 0.50	< 0.50	0.30 J
		2004 02 (Summer)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	1.3	4.5	< 0.50	11.0	0.10 J	3.8	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-02	2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	3.8	< 1.0	9.4	< 1.0	3.5	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	0.24 J	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	1.5 J	5.6	< 1.0	19.0	< 1.0 UJ	4.5	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	6.5	< 1.0	22.0	1.1	5.1	< 0.50	< 1.0	< 0.50
	M05-04	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 29.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	39.0	0.80	2.4	0.070 J	4.5	< 0.50	5.0	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	19.0	1.3	2.3	0.30 J	1.9	< 0.50	1.7	0.60
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	45.0	0.80	2.8	< 0.50	6.8	< 0.50	7.7	0.20 J
	M05-05	2007 01 (Spring)	< 50.0 UJ	-	< 500	< 100	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 51.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	0.90	< 0.50	2.2	1.7	1.6	< 0.50	< 0.50	0.30 J
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	1.6	1.4	1.0	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	1.6 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	0.80 J	< 1.0 UJ	0.80 J	0.23 J	0.38 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.81 J	< 1.0	1.7	1.5	1.1	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	0.72 J	0.61 J	0.46 J	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	20.0 J	20.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50	0.40 J	0.70	0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	54.0	< 50.0	55.0 J	< 50.0	109	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	7.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	0.10 J	< 0.50	< 0.50	0.10 J	0.70	< 0.50	2.0	2.0	1.5	0.10 J	< 0.50	3.0
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	1.9	2.2	1.9	< 0.50	< 0.50	5.9
	M05-06	2007 01 (Spring)	< 50.0 UJ	-	< 500 UJ	< 100	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.29 J	< 0.50	0.17 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 75.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	24.0 J	< 50.0	< 300	< 50.0	24.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	36.0 J	< 50.0	< 300	19.0 J	55.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-06	2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-08	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	67.0	< 50.0	79.0 J	< 50.0	146	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0	< 1.0	1.2	< 0.50	34.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	19.0 J	19.0	< 0.50	0.20 J	0.40 J	< 0.50	< 0.20 J	22.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-09	2007 01 (Spring)	< 50.0	-	< 500	< 100	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	20.0 J	< 50.0	< 300	< 50.0	20.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-09	2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-10	2003 02 (Summer)	< 190	< 280 UJ	< 190	54.0	54.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	1.0	< 1.0	0.34 J	0.23 J	1.9	2.3	2.4	0.20 J	35.0	< 0.50	0.67 J	0.85
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	7.3	< 0.50	< 0.50	0.80	< 0.50	0.30 J	< 0.50	1.9	1.9	1.3	< 0.50	55.0	< 0.50	1.2	0.60
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	0.40 J	< 0.50 UJ	< 0.50 UJ	18.0	< 0.50	3.0	< 0.50
	M05-11	2007 01 (Spring)	45.0 J	< 50.0	< 300	< 17.0	45.0	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.30 J	< 0.50	< 0.50	0.60
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	2.1	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	0.20 J	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	0.60
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	2.5	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	0.30 J	< 0.50	< 0.50	1.5
	M05HW-01	2007 01 (Spring)	20.0 J	< 50.0	< 300	< 30.0	20.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.50	8.0	0.70	1.6	2.5	12.0	0.40 J	5.2	2.2	4.6	< 0.50	< 0.50	1.0
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.60	9.0	0.80	1.8	1.9 J	12.0	0.60	6.6	3.0	4.6	< 0.50	< 0.50	2.3
		2006 01 (Spring)	41.0 J	< 50.0	< 300	< 50.0	41.0	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	5.0	0.50	1.0	2.6	12.0	0.90	4.1	2.4	6.3	< 0.50	0.20 J	1.4
	M10-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 16.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	0.30 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 92.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50 UJ	0.80	< 0.50	0.60	< 0.50	0.60	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	0.30 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
	M10-02	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 58.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M117-E	2007 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	300	74.0	180 J	< 50.0	554	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M12-04	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M12-04	2006 01 (Spring)	33.0 J	< 50.0	< 300	< 50.0	33.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	86.0	< 50.0	180 J	< 50.0	266	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.20 J	< 0.50	< 0.50	8.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	D05-01	2007 01 (Spring)	< 50.0	-	< 500	< 100	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D05-03	2007 01 (Spring)	< 50.0 UJ	-	< 500 UJ	< 100	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	1500	540	1100	< 50.0	3140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.60	0.20 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D05-03	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.50	0.40 J	0.20 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J
		2003 04 (Winter)	< 190	< 280	140 J	< 50.0	140	< 0.50	< 1.0	0.84 J	0.94 J	0.46 J	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	1.1	0.69 J	0.70 J	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	2.4	3.0	1.9	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70
	D05-04	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	0.70	< 0.50	0.20 J	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	0.080 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	20.0	0.70	1.9	< 0.50	2.9	< 0.50	2.3	0.80
		2004 04 (Winter)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	D05-05	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	D05-06	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	< 0.50	0.70	< 0.50	1.0	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	3.5	< 0.50	1.4	< 0.50	1.2	< 0.50	0.30 J	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	1.0	< 0.50	0.80	< 0.50	0.30 J	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.5	< 0.50	1.2	< 0.50	0.70	< 0.50	0.30 J	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1	< 0.50	1.0	< 0.50	0.50	< 0.50	0.20 J	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D05-07	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D05-08	2005 02 (Summer)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D05-08	2004 04 (Winter)	-	-	-	-	-	0.50 J	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.80 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D12-01	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	110 J	< 50.0	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	25.0 J	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.20 J	< 0.50	< 0.50	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	0.45 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.3 J	< 9.6	< 9.6	< 48.0	< 9.6	1.6 J	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	0.52 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	3.3 J	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	1.4 J	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	1.3 J	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	1.2 J	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0	< 9.5

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-5

Groundwater Sample Analytical Results: Polycyclic Aromatic Hydrocarbons at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs									
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-5

Groundwater Sample Analytical Results: Polycyclic Aromatic Hydrocarbons at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs					
			Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	0.070 J	< 0.19	< 0.10	1.8	0.14	0.040 J
		2005 02 (Summer)	*< 0.19*	*< 0.19*	*< 0.10*	*0.16 J*	*0.13*	*0.060 J*
		2005 01 (Spring)	< 0.19	< 0.19	< 0.10	< 0.95	0.28	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0
		2004 02 (Summer)	< 0.19	< 0.19	< 0.090	< 0.94	0.25	0.090 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	NA	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	0.050	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
2MW8S	2006 01 (Spring)		< 1.0	18.0	-	< 2.0	12.0	3.5 J	-	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	17.0 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	2005 02 (Summer)		0.12 J	18.0	25.0	< 2.0	5.2	3.0 J	0.36 J	1.3 J	-	< 10.0	< 3.0	220	< 0.20	< 20.0	6.7 J	< 5.0	< 5.0	< 5.0	1.0 J	1.5 J	97.0 J	1600	7.3	5.4	8.8	12.0
	2005 01 (Spring)		0.15 J	18.0	120	< 2.0	7.3	4.5 J	0.74 J	< 10.0	-	10.0	< 3.0	560	< 0.20	2.1 J	20.0	< 5.0	< 5.0	8.3	1.9 J	11.0 J	< 100	4300	40.0	23.0	24.0	510
	2004 04 (Winter)		0.23 J	16.0	13.0	< 2.0	1.7 J	1.9 J	0.51 J	< 10.0	-	< 10.0	< 3.0	230	< 0.20	4.0 J	6.6 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	850	9.4	5.7	8.9	87.0
	2004 02 (Summer)		0.10 J	17.0	11.0	< 2.0	< 5.0	< 10.0	0.41 J	< 10.0	-	< 10.0	0.25 J	230	< 0.20	< 20.0	11.0 J	< 1.0	< 5.0	< 1.0	< 10.0	23.0	10.0 J	660	8.5	5.6	9.0	93.0
	2004 01 (Spring)		< 5.0	**24.2 J**	42.3 J	< 4.0	5.4	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	563	**0.31 J**	< 50.0	**25.6**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	2010	23.7	16.9	21.9 J	377
	2003 04 (Winter)		< 5.0	**21.1 J**	8.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	289	< 0.40	< 50.0	19.3 J	< 20.0	< 10.0	< 5.0	< 50.0	14.2 J	< 200	335	16.5	9.7	10.7	120
	2003 03 (Fall)		< 5.0	< 50.0	5.2 J	< 4.0	3.2 J	< 10.0	< 10.0	1.6 J	-	< 20.0	< 10.0	23.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	41.1 J	221	10.4	6.2	8.6 J	75.9
M05-01	2005 02 (Summer)		< 1.0	4.7 J	260	< 2.0	< 5.0	1.3 J	0.83 J	2.3 J	-	< 10.0	< 3.0	450	< 0.20	1.0 J	10.0 J	7.8	< 5.0	< 5.0	2.1 J	32.0	< 100	1400	**180**	**410**	110	3000
	2005 01 (Spring)		0.49 J	< 5.0	42.0	< 2.0	< 5.0	1.6 J	0.15 J	< 10.0	-	< 10.0	< 3.0	29.0	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	3.0 J	8.0 J	230	320	11.0	13.0	10.0	360
	2004 04 (Winter)		0.50 J	< 5.0	250	< 2.0	< 5.0	< 10.0	0.55 J	< 10.0	-	< 10.0	< 3.0	230	0.078 J	1.4 J	1.5 J	< 5.0	< 5.0	< 5.0	2.2 J	< 20.0	< 100	380	140	270	76.0	2000
	2004 02 (Summer)		< 1.0	< 1.0	170	< 2.0	< 5.0	< 10.0	0.50 J	< 10.0	-	< 10.0	0.053 J	330	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	33.0	< 50.0	760	110	270	92.0	2100
	2004 01 (Spring)		< 5.0	4.6 J	26.5 J	< 4.0	< 5.0	< 10.0	5.3 J	< 10.0	-	< 20.0	< 10.0	3.6 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	8.6 J	17.5 J	220	301	5.9	13.5	20.7 J	297
	2003 04 (Winter)		< 5.0	< 50.0	141	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	101 J	< 0.40	**21.3 J**	14.1 J	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	115	**189**	**497**	**188**	**4150**
	2003 03 (Fall)		< 5.0	6.4 J	181	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	-	< 20.0	< 10.0	152	< 0.40	< 50.0	4.2 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	181	**203**	**468**	133 J	3460
	2003 02 (Summer)		< 50.0	< 50.0	249	< 4.0	< 5.0	< 10.0	< 10.0	1.7 J	-	< 20.0 UJ	< 10.0	358	< 0.40	5.1 J	2.3 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	681	**181**	**509**	124	3650 J
	2003 01 (Spring)		0.29 J	3.1 J	46.0	< 2.0	< 5.0	< 10.0	< 10.0	1.2 J	-	< 10.0 UJ	< 3.0	47.0	< 0.20	7.9 J	1.5 J	5.5	< 5.0	< 1.0	2.6 J	< 20.0	6.2 J	100	24.0	68.0	49.0	930
	2002 04 (Winter)		0.77 J	7.1	120	< 2.0	0.59 J	3.0 J	0.53 J	2.1 J	-	< 10.0	0.34 J	250	< 0.20	**25.0**	6.3 J	**11.0 J**	< 5.0	< 2.0	4.4 J	1.6 J	190	750 J	80.0	230	98.0	2500
	2002 03 (Fall)		< 50.0	3.0 J	220	< 2.0	< 5.0	0.84 J	0.52 J	1.5 J	-	< 10.0	< 3.0	460	< 0.20	2.4 J	3.1 J	4.1 J	< 5.0	< 2.0	1.2 J	< 20.0	< 100	1500	**170**	**440**	**150**	3400
	2002 02 (Summer)		0.070 J	7.1	150	< 2.0	< 5.0	< 10.0	0.54 J	1.3 J	-	< 10.0	0.048 J	580	0.059 J	3.2 J	2.1 J	**16.0**	< 5.0	0.034 J	3.7 J	< 20.0	< 100	1300	110	**360**	110	3300
M05-02	2007 01 (Spring)		< 2.5 UJ	5.9 J	166 J	< 2.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0	< 0.020	-	< 5.0 UJ	464 J	-	-	14.5 J	**11.2 J**	< 1.0 UJ	< 5.0 UJ	2.7 J	< 50.0 UJ	115	677 J	-	-	-	-
	2006 03 (Fall)		0.14 J	1.8 J	170	< 2.0	< 5.0	< 10.0	0.74 J	1.6 J	-	-	< 3.0	530	< 0.20	3.4 J	18.0 J	< 5.0	< 5.0	< 5.0	< 10.0	13.0 J	< 100	1300	56.0	69.0	37.0	1100 J
	2006 01 (Spring)		< 1.0	< 5.0	290	0.25 J	< 5.0	< 10.0	0.75 J	2.2 J	-	-	< 3.0 UJ	1200	< 0.20	< 20.0	7.1 J	< 5.0	< 5.0	< 5.0	< 10.0	4.8 J	< 100	3000	76.0	200	67.0	1900
M05-04	2007 01 (Spring)		0.32 J	4.4 J	-	0.22 J	0.30 J	< 10.0	-	0.55 J	-	< 10.0	< 3.0	-	< 0.20	-	3.6 J	< 5.0	0.24 J	< 5.0	-	< 7.5	-	-	-	-	-	-
	2006 03 (Fall)		< 1.0	6.9	-	< 2.0	< 5.0	< 10.0	-	1.1 J	-	< 10.0	< 3.0	-	< 0.20	-	1.9 J	< 5.0	< 5.0	< 5.0	-	**58.0**	-	-	-	-	-	-
	2006 01 (Spring)		< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	2.3 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	2.5 J	< 5.0	< 5.0	< 5.0	-	30.0 J	-	-	-	-	-	-
M05-05	2007 01 (Spring)		< 2.1 UJ	< 15.2 UJ	184 J	< 2.0 UJ	< 5.0 UJ	< 5.0 UJ	1.1 J	< 5.0	< 0.020	-	< 5.0 UJ	714 J	-	-	< 5.0 UJ	< 5.0 UJ	< 1.0 UJ	< 5.0 UJ	8.3 J	< 50.0 UJ	61.4 J	< 50.0 UJ	-	-	-	-
	2006 03 (Fall)		0.48 J	4.5 J	-	< 2.0	< 5.0	< 10.0	-	0.99 J	-	< 10.0	< 3.0	-	< 0.20	-	3.9 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	2006 01 (Spring)		1.7	5.1	-	< 2.0	< 5.0	4.3 J	-	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	3.1 J	-	-	-	-	-	-

MW8Z

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 6.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	NA	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	0.050	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M05-05	2005 02 (Summer)	0.82 J	4.8 J	190	< 2.0	< 5.0	1.8 J	0.56 J	1.1 J	-	< 10.0	< 3.0	230	< 0.20	4.8 J	5.0 J	1.0 J	< 5.0	< 5.0	2.5 J	11.0 J	< 100	290	78.0	33.0	20.0	320
		2005 01 (Spring)	0.86 J	4.1 J	31.0	0.36 J	< 5.0	3.0 J	< 1.0	< 10.0	-	< 10.0	< 3.0	< 10.0	< 0.20	4.9 J	1.2 J	< 5.0	< 5.0	< 5.0	2.9 J	< 20.0	< 100	11.0 J	25.0	6.4	5.4 J	47.0
		2004 04 (Winter)	< 1.0	4.2 J	94.0	< 2.0	< 5.0	1.1 J	< 1.0	0.55 J	-	< 10.0	< 3.0	32.0	< 0.20	3.2 J	0.86 J	< 5.0	< 5.0	< 5.0	2.5 J	0.68 J	9.3 J	< 100	48.0 J	16.0	12.0	120
		2004 02 (Summer)	0.35 J	5.5	92.0	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	-	< 10.0	0.11 J	39.0	< 0.20	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	8.2 J	< 100	62.0	22.0	16.0	120
		2004 01 (Spring)	< 5.0	< 50.0	69.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	< 10.0	< 0.40	**13.6 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	55.8	16.7	10.9 J	58.7
		2003 04 (Winter)	< 5.0	5.1 J	104	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	102	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.5 J	7.7 J	< 200	< 100	73.9	23.9	15.4	137
		2003 03 (Fall)	< 5.0	< 50.0	16.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	34.4	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	3.7 J	< 200	< 100	10.8	3.7	14.8 J	214
		2003 02 (Summer)	< 50.0	< 50.0	162	< 4.0	< 5.0	< 10.0	< 10.0	1.0 J	-	< 20.0	< 10.0	384	< 0.40	5.4 J	4.5 J	< 20.0	< 10.0	< 5.0	1.9 J	< 20.0	< 200	< 100	87.4	36.6	24.8	229 J
		2003 01 (Spring)	< 1.0	5.8	150	< 2.0	< 5.0	2.9 J	< 10.0	0.49 J	-	< 10.0 UJ	< 3.0	260	< 0.20	4.1 J	3.5 J	< 5.0	< 5.0	< 1.0	3.0 J	1.8 J	6.1 J	190	71.0	27.0	15.0	210
		2002 04 (Winter)	0.67 J	4.6 J	290	< 2.0	< 5.0	< 10.0	0.33 J	1.5 J	-	< 10.0	< 3.0	190	< 0.20	< 20.0	3.4 J	2.3 J	< 5.0	< 2.0	3.1 J	3.9 J	< 100	870	**170**	70.0	19.0	170
		2002 03 (Fall)	< 50.0	18.0	300	< 2.0	< 5.0	1.3 J	0.86 J	< 10.0	-	< 10.0	< 3.0	900	< 0.20	5.4 J	10.0 J	4.8 J	< 5.0	< 2.0	1.9 J	< 20.0	< 100	1500	120	64.0	33.0	800
		2002 02 (Summer)	0.15 J	**24.0**	420	< 2.0	< 5.0	< 10.0	1.3 J	0.93 J	-	< 10.0	0.22 J	1500	< 0.20	6.1 J	13.0 J	6.5	< 5.0	< 2.0	1.7 J	< 20.0	4.0 J	860	140	89.0	38.0	1100
	M05-06	2007 01 (Spring)	< 7.3	10.4	49.2 J	< 2.0 UJ	< 5.0 UJ	1.9 J	< 5.0 UJ	1.9 J	< 0.020	-	< 5.0 UJ	284 J	-	-	< 5.0 UJ	< 5.0	0.91 J	< 5.0 UJ	8.1	< 50.0 UJ	< 100	45.8 J	-	-	-	-
		2006 03 (Fall)	0.18 J	**21.0**	-	< 2.0	< 5.0	< 10.0	-	1.1 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	0.29 J	< 5.0	< 5.0	-	15.0 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	11.0	-	< 2.0	< 5.0	< 10.0	-	2.0 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	**23.0**	63.0	< 2.0	< 5.0	1.1 J	0.29 J	1.0 J	-	< 10.0	< 3.0	300	< 0.20	6.8 J	1.8 J	1.8 J	< 5.0	< 5.0	11.0	13.0 J	9.0 J	150	19.0	52.0	29.0	850
		2004 04 (Winter)	0.15 J	11.0	62.0	< 2.0	< 5.0	< 10.0	0.36 J	< 10.0	-	< 10.0	< 3.0	390	< 0.20	7.8 J	< 20.0	< 5.0	< 5.0	< 5.0	8.3 J	< 20.0	< 100	< 100	25.0	64.0	33.0	950
		2004 02 (Summer)	< 1.0	13.0	64.0	< 2.0	< 5.0	< 10.0	0.31 J	< 10.0	-	< 10.0	0.14 J	360	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	11.0	7.8 J	< 50.0	120	23.0	57.0	31.0	860
		2003 04 (Winter)	< 5.0	12.8 J	85.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	433 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	6.3 J	< 20.0	< 200	89.0 J	27.7	66.7	37.8	1090
		2003 02 (Summer)	< 50.0	10.9 J	74.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	443	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	7.4 J	8.7 J	< 200	61.0 J	27.9	64.8	30.1 J	891
		2003 01 (Spring)	< 1.0	7.2	90.0	< 2.0	< 5.0	< 10.0	< 10.0	0.80 J	-	< 10.0	< 3.0	450	< 0.20 UJ	7.1 J	1.3 J	3.8 J	< 5.0	< 1.0	4.3 J	1.7 J	< 100	< 100	29.0	71.0	35.0	940
		2002 03 (Fall)	< 50.0	7.9	83.0	< 2.0	< 5.0	0.74 J	0.32 J	< 10.0	-	< 10.0	< 3.0	440	< 0.20	7.3 J	1.2 J	4.6 J	< 5.0	< 2.0	6.3 J	< 20.0	< 100	< 150	26.0	62.0	34.0	1000
	M05-08	2007 01 (Spring)	< 1.0	**29.0**	-	< 2.0	< 5.0	< 10.0	-	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	3.5 J	< 5.0	< 5.0	< 5.0	-	12.0 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	**36.0**	-	< 2.0	< 5.0	< 10.0	-	1.5 J	-	50.0	< 3.0 UJ	-	< 0.20	-	3.1 J	< 5.0	< 5.0	< 5.0	-	10.0 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	17.0	-	< 2.0	< 5.0	< 10.0	-	1.1 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	0.27 J	**38.0**	69.0	< 2.0	< 5.0	0.62 J	< 1.0	< 10.0	-	< 10.0	< 3.0	250	< 0.20	< 20.0	2.3 J	0.55 J	< 5.0	< 5.0	0.56 J	6.4 J	< 100	690	14.0	13.0	13.0	240
		2005 01 (Spring)	0.095 J	**28.0**	49.0	< 2.0	< 5.0	< 10.0	< 1.0	0.39 J	-	< 10.0	< 3.0	110	< 0.20	3.4 J	1.6 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	170	14.0	12.0	9.0	160
		2004 04 (Winter)	< 1.0	**32.0**	75.0	< 2.0	< 5.0	0.59 J	0.088 J	0.84 J	-	< 10.0	0.29 J	200	< 0.20	2.8 J	3.5 J	4.4 J	< 5.0	< 5.0	1.0 J	8.2 J	4.9 J	540	17.0 J	15.0	13.0	220
		2004 02 (Summer)	0.080 J	**43.0**	86.0	0.44 J	< 5.0	< 10.0	0.11 J	< 10.0	-	< 10.0	0.40 J	350	< 0.20	< 20.0	1.4 J	< 5.0	< 5.0	< 1.0	< 10.0	22.0	< 50.0	850	22.0	21.0	15.0	290

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 6.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	NA	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	0.050	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M05-08	2004 01 (Spring)	< 5.0	36.1 J	112	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	434	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	9.7 J	< 200	985	36.9	25.8	16.8 J	298
		2003 04 (Winter)	< 5.0	39.6 J	141	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	519	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.0 J	< 200	1190	42.5	27.1	18.9	301
		2003 03 (Fall)	< 5.0	8.0 J	14.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	57.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.2 J	< 200	120	4.1	2.8	15.0 J	281
		2003 02 (Summer)	< 50.0	33.3 J	163	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	687	< 0.40	< 50.0	4.2 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	51.1 J	1540	50.5	32.5	25.7	263 J
		2003 01 (Spring)	< 1.0	32.0	130	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 3.0	500	< 0.20	< 20.0	4.7 J	< 5.0	< 5.0	< 1.0	< 10.0	2.4 J	< 100	1100	37.0	26.0	16.0	240
		2002 04 (Winter)	< 50.0	30.0	120	< 2.0	< 5.0	< 10.0	0.13 J	0.63 J	-	< 10.0	0.033 J	310 J	< 0.20	2.0 J	3.8 J	< 0.35 J	< 5.0	< 2.0	< 10.0	3.0 J	< 100	970	26.0	21.0 J	16.0	210
		2002 03 (Fall)	< 50.0	33.0	130	< 2.0	< 5.0	0.59 J	< 10.0	< 10.0	-	< 10.0	< 3.0	530	< 0.20	2.1 J	4.2 J	< 5.0 UJ	< 5.0	< 2.6	0.80 J	< 20.0	< 100	1300	40.0	26.0	15.0	250
		2002 02 (Summer)	< 50.0	29.0	130	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	-	< 10.0 UJ	1.2 J	530	< 0.20	< 20.0	< 20.0	1.5 J	< 5.0 UJ	< 2.0	< 10.0	< 20.0	84.0 J	1300	36.0	27.0	17.0	250
	M05-09	2007 01 (Spring)	< 5.0	< 5.0	109 J	< 2.0	< 5.0	2.1 J	< 5.0	< 5.0	< 0.020	-	< 5.0	30.5	< 0.069	-	< 5.0	9.9	< 1.0	< 5.0	< 5.0	< 50.0	< 100	< 50.0	-	-	-	-
		2006 03 (Fall)	< 1.0	2.1 J	-	< 2.0	< 5.0	< 10.0	-	0.33 J	-	20.0	< 3.0 UJ	-	< 0.20	-	0.74 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	1.2 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	2.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.19 J	6.7	310	< 2.0	< 5.0	1.3 J	0.46 J	1.4 J	-	< 10.0	0.43 J	320	< 0.20	< 20.0	4.0 J	2.5 J	< 5.0	< 5.0	1.9 J	17.0 J	< 100	4400	56.0	38.0	22.0	560
		2005 01 (Spring)	0.14 J	< 5.0	90.0	< 2.0	< 5.0	1.4 J	< 1.0	0.97 J	-	< 10.0	< 3.0	24.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.3 J	< 20.0	< 100	13.0 J	35.0	17.0	6.5	41.0
		2004 04 (Winter)	< 1.0	2.3 J	90.0	< 2.0	< 5.0	0.69 J	0.076 J	1.2 J	-	< 10.0	0.085 J	27.0	< 0.20	< 20.0	0.86 J	2.5 J	< 5.0	2.6 J	2.7 J	1.5 J	3.1 J	< 100	36.0 J	16.0	7.9	37.0
		2004 02 (Summer)	0.14 J	24.0	340	< 2.0	< 5.0	< 10.0	0.92 J	< 10.0	-	< 10.0	0.061 J	1100	< 0.20	< 20.0	10.0 J	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	410	71.0	93.0	55.0	1100
		2004 01 (Spring)	< 5.0	< 50.0	107	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	4.5 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	38.3	16.4	6.6 J	46.6
		2003 04 (Winter)	< 5.0	7.6 J	117	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	270	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	6.4 J	< 200	< 100	40.0	19.8	8.9	62.4
		2003 03 (Fall)	< 5.0	< 50.0	12.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	66.2	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	2.8 J	< 200	< 100	35.4	54.6	22.4 J	680
		2003 02 (Summer)	< 50.0	20.6 J	270	< 4.0	< 5.0	< 10.0	< 10.0	1.2 J	-	< 20.0 UJ	< 10.0	309	< 0.40	< 50.0	2.8 J	< 20.0	< 10.0	< 5.0	7.0 J	< 20.0	< 200	< 100	52.4	24.3	20.3	420 J
		2003 01 (Spring)	< 1.0	2.0 J	92.0	< 2.0	< 5.0	< 10.0	< 10.0	0.50 J	-	< 10.0 UJ	< 3.0	22.0	< 0.20	0.40 J	< 20.0	< 5.0	< 5.0	< 1.0	2.2 J	< 20.0	2.9 J	100	35.0	15.0	7.2	40.0
		2002 04 (Winter)	< 50.0	2.3 J	100	< 2.0	< 5.0	< 10.0	0.098 J	0.49 J	-	< 10.0	< 3.0	20.0	< 0.20	< 20.0	1.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	< 200	35.0	15.0	6.8	46.0
		2002 03 (Fall)	< 50.0	2.4 J	91.0	< 2.0	< 5.0	1.1 J	< 10.0	0.78 J	-	< 10.0	< 3.0	13.0	< 0.20	0.60 J	1.0 J	< 5.0 UJ	< 5.0	< 2.0	3.6 J	< 20.0	< 100	< 100	32.0	13.0	7.7	53.0
		2002 02 (Summer)	0.24 J	< 5.0	80.0	< 2.0	< 5.0	< 10.0	0.047 J	0.44 J	-	< 10.0	0.039 J	9.8 J	< 0.20	0.80 J	1.0 J	< 5.0	< 5.0	0.13 J	3.7 J	0.91 J	< 100	< 100	30.0	12.0	7.2	57.0
	M05-10	2003 02 (Summer)	< 50.0	15.6 J	28.0 J	< 4.0	< 5.0	**36.1**	< 10.0	< 10.0	-	35.0	< 10.0	58.4	< 0.40	6.7 J	5.4 J	< 20.0	< 10.0	< 5.0	2.3 J	< 20.0	66.3 J	199	10.0	2.7	12.4	78.9 J
		2002 04 (Winter)	< 50.0	16.0	18.0	< 2.0	< 5.0	**28.0**	0.60 J	1.1 J	-	< 10.0	< 3.0	31.0	< 0.20	< 20.0	3.9 J	< 5.0	< 5.0	< 2.0	4.1 J	6.0 J	< 100	260	5.8	1.4	9.2	67.0
		2002 02 (Summer)	0.16 J	13.0 J	9.9 J	< 2.0	< 5.0	8.1 J	0.41 J	< 10.0	-	< 10.0	0.039 J	18.0	< 0.20	< 20.0	< 20.0	0.38 J	< 5.0	< 2.0	< 10.0	< 20.0	35.0 J	350	3.4	0.83	8.6	42.0
	M05-11	2007 01 (Spring)	< 0.16	4.8 J	-	< 2.0	< 5.0	< 0.94	-	0.48 J	-	< 10.0	< 2.1	-	< 0.20	-	13.0 J	0.35 J	< 5.0	< 5.0	-	4.2 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	4.2 J	-	< 2.0	< 5.0	0.45 J	-	< 10.0	-	< 10.0	< 3.0 UJ	-	< 0.20	-	11.0 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	< 5.0	-	0.33 J	< 5.0	< 10.0	-	0.78 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	7.2 J	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 6.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	NA	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	0.050	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M05HW-01	2007 01 (Spring)	1.6	5.3	-	1.5 J	< 5.0	< 2.2	-	1.9 J	-	< 10.0	< 2.1	-	< 0.20	-	12.0 J	< 5.0	1.3 J	1.0 J	-	3.8 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	4.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	-	< 10.0	< 3.0 UJ	-	< 0.20	-	9.5 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	4.0 J	-	< 2.0	< 5.0	0.59 J	-	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	6.9 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	M10-01	2007 01 (Spring)	< 0.16	9.5	-	< 2.0	< 5.0	< 1.5	-	1.5 J	-	< 10.0	< 2.1	-	< 0.20	-	3.3 J	< 5.0	< 5.0	< 5.0	-	< 2.3	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	10.0	-	< 2.0	< 5.0	0.43 J	-	0.84 J	-	10.0	< 3.0 UJ	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	6.9	-	< 2.0	< 5.0	< 10.0	-	2.0 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	2.5 J	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
	M10-02	2007 01 (Spring)	< 0.18	5.8	-	< 2.0	< 5.0	4.0 J	-	0.75 J	-	< 10.0	< 2.1	-	< 0.20	-	1.7 J	< 5.0	< 5.0	< 5.0	-	< 3.0	-	-	-	-	-	-
		2006 03 (Fall)	0.14 J	3.3 J	-	< 2.0	< 5.0	3.7 J	-	1.8 J	-	< 10.0	0.23 J	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	7.5 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	6.7	-	< 2.0	< 5.0	3.7 J	-	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	M117-E	2007 01 (Spring)	0.30 J	14.0	-	< 2.0	0.15 J	2.1 J	-	1.1 J	-	< 10.0	0.25 J	-	< 0.20	-	1.9 J	< 5.0	0.10 J	< 5.0	-	23.0	-	-	-	-	-	-
		2006 03 (Fall)	0.18 J	16.0	-	< 2.0	< 5.0	< 10.0	-	0.86 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	7.8 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	11.0	-	< 2.0	< 5.0	2.8 J	-	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	M12-04	2007 01 (Spring)	< 0.16	< 5.0	-	< 2.0	< 5.0	< 0.67	-	0.72 J	-	< 10.0	< 2.1	-	**0.33**	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 2.4	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	0.72 J	-	< 2.0	< 5.0	< 10.0	-	0.68 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	0.69 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.6 J	-	< 2.0	< 5.0	< 10.0	-	2.4 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	**50.0**	-	-	-	-	-	-
		2005 02 (Summer)	0.15 J	2.0 J	55.0	< 2.0	0.15 J	0.54 J	0.13 J	0.95 J	-	< 10.0	< 3.0	140	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	1.2 J	1.6 J	< 100	160	20.0	11.0	8.8	110
		2004 04 (Winter)	< 1.0	1.1 J	93.0	< 2.0	< 5.0	0.45 J	0.18 J	0.78 J	-	< 10.0	< 3.0	160	< 0.20	1.8 J	1.5 J	< 5.0	< 5.0	< 5.0	1.3 J	1.7 J	< 100	< 100	37.0 J	19.0	11.0	170
		2004 02 (Summer)	< 1.0	< 1.0	55.0	< 2.0	< 5.0	< 10.0	0.17 J	< 10.0	-	20.0	0.067 J	110	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	28.0	< 50.0	65.0 J	25.0	15.0	9.6	120
		2003 04 (Winter)	< 5.0	5.5 J	62.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	94.8	< 0.40	< 50.0	< 20.0	5.0 J	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	29.5	14.2	9.8	121
		2003 02 (Summer)	< 50.0	< 50.0	87.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	163	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	37.0	19.0	11.9	116 J
		2002 04 (Winter)	< 50.0	< 5.0	120	< 2.0	0.061 J	< 10.0	0.39 J	1.0 J	-	< 10.0	0.092 J	190 J	< 0.20	1.2 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	7.2 J	46.0 J	< 310	56.0	27.0 J	10.0	73.0
		2002 02 (Summer)	0.089 J	1.9 J	50.0	< 2.0	< 5.0	< 10.0	0.15 J	0.83 J	-	< 10.0	0.028 J	88.0	< 0.20	1.8 J	1.0 J	0.42 J	< 5.0	< 2.0	2.4 J	4.2 J	3.2 J	64.0 J	21.0	10.0	9.0	95.0
SWBZ	D05-01	2007 01 (Spring)	< 5.0	9.7	36.7 J	< 2.0	< 5.0	< 5.0	5.9	< 5.0	< 0.020	-	< 5.0	**4260**	< 0.085	-	< 5.0	**99.0**	3.1	**40.5**	< 5.0	< 50.0	< 100	337 J	-	-	-	-
		2006 01 (Spring)	< 1.0	16.0	-	0.60 J	< 5.0	< 10.0	-	< 10.0	-	< 10.0	< 3.0 UJ	-	< 0.20	-	6.8 J	< 5.0	**5.7**	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	1.8 J	58.0	< 2.0	< 5.0	1.1 J	10.0	6.0 J	-	< 10.0	< 3.0	**5800**	< 0.20	1.5 J	14.0 J	**36.0**	< 5.0	< 5.0	0.63 J	**100**	< 100	3300	**710**	**1400**	77.0	**6200**
		2005 01 (Spring)	< 1.0	< 5.0	49.0	< 2.0	< 5.0	< 10.0	9.9	< 10.0	-	< 10.0	< 3.0	**6200**	< 0.20	< 20.0	8.8 J	< 5.0	< 5.0	< 5.0	< 10.0	13.0 J	< 100	630	**800**	**1600**	100	**7600**
		2004 04 (Winter)	0.17 J	13.0	49.0	< 2.0	0.82 J	2.9 J	11.0	< 10.0	-	< 10.0	< 3.0	**6100**	0.083 J	4.1 J	10.0 J	< 5.0	< 5.0	< 5.0	2.4 J	6.7 J	< 100	570	**720**	**1500**	90.0	**7200**
		2004 02 (Summer)	0.40 J	< 1.0	55.0	< 2.0	< 5.0	0.79 J	9.4	< 10.0	-	< 10.0	0.24 J	**7200**	< 0.20	< 20.0	9.0 J	< 1.0	< 5.0	< 1.0	1.3 J	17.0 J	10.0 J	1000	**930**	**1800**	110	**8300**
		2004 01 (Spring)	< 5.0	6.3 J	44.3 J	< 4.0	< 5.0	< 10.0	5.7 J	< 10.0	-	< 20.0	< 10.0	**5540**	< 1.0	**35.6 J**	12.8 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	695	**920**	**1620**	116 J	**8370**

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 6.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																	Common Rock-forming Elements					
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:		6.0	10.0	1000	4.0	5.0	50.0	NA	1000	NA	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:		37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
Well No.	Event	AWQC:		NA	36.0	NA	NA	8.8	NA	NA	3.1	0.050	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
SWBZ	D05-01	2003 04 (Winter)		< 5.0	< 50.0	48.7 J	< 4.0	< 5.0	< 10.0	7.2 J	< 10.0	-	< 20.0	< 10.0	4940	< 0.40	< 50.0	13.9 J	7.3 J	< 10.0	< 25.0	5.1 J	< 20.0	< 200	416	664	1550	130	7550
		2003 03 (Fall)		10.8	< 50.0 UJ	57.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0	< 10.0	6860	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	5400	955	1840	106 J	6890
		2003 02 (Summer)		22.9 J	< 50.0	53.8 J	< 4.0	< 5.0	< 10.0	9.6 J	1.7 J	-	< 20.0 UJ	< 10.0	6480	< 0.40	< 50.0	10.1 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	739	916	1800	101	7410 J
		2003 01 (Spring)		< 1.0	4.5 J	57.0	< 2.0	< 5.0	< 10.0	8.7 J	4.1 J	-	< 10.0	< 3.0	6400	< 0.20	1.6 J	12.0 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	8.1 J	2200	780	1400	87.0	8000
		2002 04 (Winter)		< 50.0	< 5.0	61.0	< 2.0	< 5.0	2.5 J	12.0	9.2 J	-	< 10.0	0.047 J	6900 J	< 0.20	1.5 J	26.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	5400	1000	1900 J	110	9300
		2002 03 (Fall)		< 50.0	< 5.0	57.0	< 2.0	< 5.0	0.58 J	11.0	5.4 J	-	< 10.0	< 3.0	5400	< 0.20	1.6 J	16.0 J	< 5.0 UJ	< 5.0	< 2.0	0.93 J	< 20.0	< 100	3200	840	1600	89.0	7600
		2002 02 (Summer)		< 50.0	8.6	51.0	< 2.0	< 5.0	9.3 J	11.0	< 10.0	-	< 10.0	< 3.0	5300	< 0.20	< 20.0	< 20.0	28.0 J	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	380	830	1600	89.0	7600
	D05-03	2007 01 (Spring)		< 2.6	< 5.0	546 J	< 2.0 UJ	< 5.0 UJ	< 5.0 UJ	6.8 J	< 5.0	< 0.020	-	< 5.0 UJ	4200 J	-	-	12.6 J	< 5.0	2.1 J	< 5.0 UJ	1.3 J	< 50.0 UJ	< 100	563 J	-	-	-	-
		2006 03 (Fall)		< 1.0	0.81 J	-	< 2.0	< 5.0	< 10.0	-	0.51 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	12.0 J	-	-	-	-	-	-
		2006 01 (Spring)		< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	3.4 J	-	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	13.0 J	-	-	-	-	-	-
		2005 02 (Summer)		< 1.0	1.8 J	210	< 2.0	< 5.0	2.5 J	14.0	6.8 J	-	< 10.0	< 3.0	5700	< 0.20	0.91 J	23.0	36.0	0.078 J	< 5.0	0.81 J	96.0	1.2 J	4000	880	1500	110 J	8000
		2004 04 (Winter)		0.15 J	< 5.0	200	< 2.0	< 5.0	< 10.0	15.0	< 10.0	-	< 10.0	< 3.0	6700	0.060 J	< 20.0	15.0 J	< 5.0	< 5.0	6.3	< 10.0	11.0 J	< 100	570	1100	1700	140	9200
		2004 02 (Summer)		0.63 J	< 1.0	160	0.29 J	2.3 J	< 200	13.0	< 10.0	-	< 10.0	0.30 J	8200	< 0.20	6.7 J	27.0	< 5.0	17.0	< 1.0	< 200	< 400	< 50.0	780	1100	1900	140	9600
		2003 04 (Winter)		< 25.0	< 50.0	182	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 20.0 UJ	< 10.0	6590	< 0.40	70.7	13.9 J	< 20.0	< 10.0	< 25.0	9.9 J	< 20.0	< 200	1060	930	1790	172	9650
		2003 02 (Summer)		< 50.0	< 50.0	849	< 4.0	< 5.0	< 10.0	< 10.0	2.4 J	-	< 20.0 UJ	< 10.0	488	< 0.40	5.1 J	3.2 J	< 20.0	< 10.0	< 5.0	4.9 J	26.0	30.4 J	420	39.7	1.8	0.79	18.2 J
		2003 01 (Spring)		0.69 J	0.67 J	110	< 2.0	< 5.0	0.98 J	< 10.0	15.0	-	< 10.0	< 3.0	71.0	< 0.20	0.43 J	3.9 J	< 5.0	< 5.0	< 1.0	3.6 J	81.0 J	15.0 J	54.0 J	7.2	0.71	0.47 J	3.6
		2002 03 (Fall)		< 50.0	< 5.0	180	< 2.0	< 5.0	0.88 J	2.0 J	4.9 J	-	< 10.0	< 3.0	3400	< 0.20	0.44 J	10.0 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	5000	1200	1700	140	9300
	D05-04	2007 01 (Spring)		4.5 J	21.7 J	49.6 J	< 2.0 UJ	< 5.0 UJ	< 5.0 UJ	4.1 J	< 5.0	< 0.020	-	< 5.0 UJ	16200	< 0.20	-	7.3 J	< 5.0 UJ	2.6	-	1.2 J	< 50.0 UJ	< 100 UJ	239 J	-	-	-	-
	D05-05	2007 01 (Spring)		< 5.0	16.2	55.2	< 2.0	< 5.0	< 5.0	1.5 J	< 5.0	< 0.020	-	< 5.0	17500	< 0.20	-	< 5.0	108	4.8	65.2	< 5.0	< 50.0	< 100	845	-	-	-	-
	D12-01	2007 01 (Spring)		0.30 J	2.2 J	-	< 2.0	0.37 J	< 0.59	-	0.38 J	-	< 10.0	< 3.0	-	< 0.20	-	17.0 J	0.48 J	< 5.0	0.44 J	-	< 1.8	-	-	-	-	-	-
		2006 01 (Spring)		< 1.0	16.0	-	0.66 J	< 5.0	1.7 J	-	< 10.0	-	< 10.0	< 3.0 UJ	-	< 0.20	-	15.0 J	< 5.0	7.5	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)		0.64 J	4.5 J	120	< 2.0	0.39 J	1.4 J	17.0	6.7 J	-	< 10.0	< 3.0	15000	< 0.20	< 20.0	27.0	58.0	< 5.0	< 5.0	2.9 J	98.0	< 100	5000	1000	1600	150	11000
		2004 04 (Winter)		< 1.0	< 1000	130	< 400	< 1000	< 2000	16.0	< 2000	-	< 10.0	< 600	16000	< 0.20	< 4000	< 4000	< 1000	< 1000	< 1000	< 2000	< 4000	< 20000 UJ	< 20000	1100 J	1800	170	9900
		2004 02 (Summer)		0.69 J	< 1.0	110	< 40.0	< 100	< 200	15.0	< 10.0	-	< 10.0	0.44 J	17000	< 0.20	< 20.0	< 400	3.4 J	< 100	< 1.0	< 200	< 400	< 50.0	470	1100	1900	180	12000
		2003 04 (Winter)		< 25.0	< 50.0	119	< 4.0	< 5.0	< 10.0	7.2 J	< 10.0	-	< 20.0	< 10.0	12000 J	0.23 J	< 50.0	20.2	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	285	1190	1830	220	12300
		2003 02 (Summer)		< 50.0	7.4 J	143	< 4.0	< 5.0	< 10.0	18.7	1.2 J	-	< 20.0	< 10.0	15200	< 0.40	< 50.0	25.5	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	378	1100	1980	181	11200 J
		2002 04 (Winter)		0.48 J	< 5.0	< 260	< 2.0	0.28 J	< 10.0	17.0	14.0	-	< 10.0	0.090 J	17000 J	< 0.20	0.87 J	33.0	< 5.0 UJ	< 5.0	0.59 J	< 10.0	< 20.0	59.0 J	4700	1200	1800 J	170	< 0.50
		2002 02 (Summer)		0.26 J	< 5.0	120	< 2.0	< 5.0	< 10.0	18.0	< 10.0	-	< 10.0	0.036 J	12000	< 0.20	< 20.0	16.0 J	-	< 5.0 UJ	< 2.0	< 10.0	12.0 J	3.9 J	67.0 J	870	1700	150	11000

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 6.1-7

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	2MW8S	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	0.040 J	< 0.050	< 0.050	0.0060 J	< 0.10	< 0.10	< 0.10	0.020 J	0.0060 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.40	< 0.40	< 0.40	< 0.20	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.20	< 0.20	< 1.9	< 3.8
		2005 01 (Spring)	0.0090 J	< 0.050	0.10	0.030 J	0.020 J	< 0.050	0.010 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.050	0.020 J	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	0.30	< 0.050	< 0.050	< 0.050	0.0070 J	< 0.10	< 0.10	0.010 J	0.020 J	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0090 J	< 0.50	< 1.0
		2004 02 (Summer)	0.090 J	< 0.050	0.20 J	< 0.050	< 0.050	< 0.050	0.010 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
	M10-01	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	0.0020 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-8
Groundwater Sampling Field Parameters at Operable Unit 2C - IR Site 5 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	2MW8S	04/17/06	7.22	0.34	-175.0
		08/30/05	7.78	0.81	-166.0
		03/10/05	6.38	0.00	-234.0
		11/29/04	7.24	0.12	61.0
		06/28/04	6.84	0.22	-298.0
		03/08/04	6.78	0.43	-101.0
		12/10/03	7.00	0.11	220.0
		10/07/03	7.89	0.34	244.0
First	M05-01	08/29/05	7.55	1.33	-166.0
		03/09/05	7.07	3.16	-135.0
		11/29/04	6.88	0.75	109.0
		06/28/04	6.97	1.88	-88.0
		03/08/04	7.55	2.14	57.0
		12/09/03	6.91	2.39	43.0
		09/17/03	6.91	1.03	-1.1
		06/27/03	6.98	1.29	122.0
		04/14/03	7.46	2.42	148.0
		12/20/02	7.11	7.50	55.0
		09/12/02	7.02	4.20	-83.0
		06/25/02	7.37	***110.00***	-70.0
First	M05-02	03/26/07	8.05	***2.01***	384.5
		10/02/06	7.34	***0.55***	-81.7
		04/13/06	6.86	1.74	-110.0
		08/29/05	8.50	1.42	-160.0
		03/10/05	6.70	0.17	-155.0
		11/29/04	7.32	0.61	72.0
		06/25/04	7.15	0.94	-77.0
		03/08/04	7.49	0.88	101.0
		12/22/03	7.53	0.64	-20.0
		09/23/03	7.59	0.66	-151.0
First	M05-04	03/26/07	7.19	0.39	-5.9
		10/04/06	6.95	0.15	-306.6
		10/02/06	7.05	0.41	21.6
		04/18/06	6.18	**10.22**	215.0
		08/30/05	7.22	0.51	-9.0
		03/10/05	6.80	2.87	-16.0
		11/30/04	7.46	0.22	181.0
		06/28/04	7.44	2.20	-16.0
		03/09/04	7.33	4.08	13.8
		12/10/03	7.45	1.18	195.0
		09/18/03	7.39	1.16	95.0
		06/27/03	7.93	1.75	-6.0
		04/14/03	7.30	***16.70***	218.0
		12/24/02	7.45	4.38	64.0
		09/12/02	7.13	7.50	-29.0
		06/25/02	7.24	1.80	-64.0
First	M05-05	03/26/07	7.61	1.76	0.9
First	M05-06	10/02/06	7.32	0.58	-76.1

Table 6.1-8
Groundwater Sampling Field Parameters at Operable Unit 2C - IR Site 5 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M05-06	04/13/06	7.05	2.24	60.0
		08/29/05	7.25	4.86	-110.0
		11/29/04	7.35	0.67	107.0
		06/28/04	7.32	0.99	-109.0
		12/09/03	7.38	0.31	46.0
		06/26/03	7.93	0.90	-360.0
		04/24/03	8.12	0.43	166.0
		09/12/02	7.61	3.50	-27.9
First	M05-08	03/27/07	7.20	0.43	-87.8
		10/03/06	7.07	0.28	-239.0
		04/13/06	7.21	3.77	-91.0
		08/30/05	7.92	0.89	-171.0
		03/10/05	6.42	0.00	-118.0
		11/30/04	6.78	0.43	98.0
		06/30/04	7.04	0.39	-128.0
		03/09/04	7.16	0.36	34.0
		12/10/03	7.14	0.36	-43.0
		09/18/03	7.16	0.25	-83.0
		06/27/03	7.17	0.25	96.0
		04/16/03	7.16	0.26	-2.0
		12/23/02	7.23	0.53	129.0
		09/12/02	7.13	4.70	-129.0
		07/10/02	6.89	7.40	-320.0
First	M05-09	10/03/06	7.02	1.07	-160.8
		04/13/06	6.95	6.04	46.0
		08/30/05	6.41	5.12	-25.0
		03/10/05	6.55	4.08	21.0
		11/30/04	7.04	2.85	196.0
		06/28/04	7.09	0.35	-59.0
		03/08/04	7.30	4.70	-41.0
		12/10/03	7.27	2.36	142.0
		09/18/03	7.33	0.32	26.0
		06/27/03	7.37	1.29	191.0
		04/14/03	7.20	***29.10***	142.0
		12/24/02	6.87	5.72	135.0
		09/12/02	7.44	***24.90***	5.0
		06/25/02	7.45	3.90	91.0
First	M05-10	Not measured (abandoned)			
		03/27/03	7.79	0.35	163.0
		12/24/02	7.83	0.40	-84.0
		07/11/02	7.40	***19.90***	-66.0
First	M05-11	03/27/07	6.97	0.53	-149.1
		10/03/06	7.10	0.36	-229.6
First	M05HW-01	03/27/07	7.48	0.38	79.9
		10/03/06	7.28	0.32	-78.5
First	M10-01	03/27/07	7.63	2.08	36.8
		10/03/06	7.79	2.02	2.7
First	M10-02	03/27/07	8.23	3.88	-132.7

Table 6.1-8
Groundwater Sampling Field Parameters at Operable Unit 2C - IR Site 5 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M10-02	10/12/06	8.41	2.12	-280.0
		10/02/06	8.18	1.93	110.9
First	M117-E	04/04/07	7.79	0.29	-144.7
		10/02/06	7.29	0.12	-171.0
First	M12-04	03/27/07	7.30	1.19	44.9
		10/03/06	6.96	0.51	-260.8
		04/17/06	6.41	3.06	169.0
		08/30/05	6.94	0.22	59.0
		11/30/04	7.11	1.14	155.0
		06/28/04	7.03	0.51	-95.0
		12/10/03	7.24	0.71	335.0
		06/27/03	7.36	0.77	35.0
		12/17/02	7.47	1.22	27.0
		06/25/02	7.19	0.27	33.0
Second	D05-01	03/26/07	6.75	0.51	-84.2
		04/13/06	6.74	0.40	-87.0
		08/29/05	7.21	0.79	-125.0
		03/09/05	6.18	0.00	-124.0
		11/29/04	6.59	0.14	101.0
		06/28/04	6.70	0.98	-86.0
		03/09/04	6.78	0.22	-267.0
		12/10/03	6.56	0.24	117.0
		09/17/03	6.76	0.44	65.0
		06/27/03	6.84	0.17	0.0
		04/14/03	6.86	0.37	190.0
		12/23/02	NM	NM	NM
		09/12/02	6.58	3.20	-41.0
		07/12/02	6.70	0.28	14.6
Second	D05-03	3/26/2007	6.82	0.29	8.8
		10/2/2006	7.25	0.40	-100.2
		04/13/06	7.09	***9.89***	282.0
		08/29/05	6.61	5.08	-79.0
		11/29/04	6.56	0.23	115.0
		06/28/04	6.50	0.18	-117.0
		12/10/03	6.51	0.28	3.7
		06/27/03	8.22	0.16	59.0
		04/23/03	7.06	7.33	220.0
		09/12/02	6.79	***21.50***	-70.2
Second	D05-04	03/26/07	6.87	0.43	-54.4
		10/03/06	6.78	0.33	-196.7
		04/13/06	6.62	0.31	12.0
		08/29/05	7.74	0.72	-197.0
		11/29/04	6.77	0.39	47.0
		06/28/04	6.78	0.38	-129.0
Second	D05-05	03/26/07	7.93	0.79	386.4
		10/03/06	6.93	0.00	-92.8
		04/17/06	6.90	0.77	-225.0

Table 6.1-8
Groundwater Sampling Field Parameters at Operable Unit 2C - IR Site 5 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D05-05	08/29/05	7.40	0.70	-278.0
		11/30/04	6.64	0.32	-234.0
		06/28/04	6.64	0.33	-98.0
Second	D05-06	03/26/07	7.53	2.87	386.7
		10/03/06	6.97	0.00	-81.6
		04/13/06	7.05	0.81	-138.0
		08/29/05	6.11	5.46	-193.0
		11/30/04	6.72	0.33	-165.0
		06/29/04	6.78	0.31	-26.0
Second	D05-07	08/29/05	6.86	4.48	-141.0
		11/30/04	6.66	0.39	-55.0
		06/29/04	6.80	0.44	-1.0
Second	D05-08	08/30/05	6.22	4.31	-308.0
		11/30/04	6.74	0.28	-211.0
		06/29/04	6.80	0.30	11.0
Second	D12-01	03/26/07	7.24	0.80	387.0
		04/12/06	6.40	0.62	-65.0
		08/29/05	6.54	0.00	-83.0
		11/30/04	6.57	0.17	1.4
		06/28/04	6.35	0.23	-124.0
		12/09/03	6.61	0.24	126.0
		06/27/03	6.62	1.60	-227.0
		12/23/02	6.79	NM	-97.0
		07/12/02	6.52	0.31	293.0

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	0.54	0.66	14.0	0.030 J	< 0.050	470	5.6	520	520	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	0.17 J	0.18	6.1	< 0.050	< 0.050	110	9.3	400	400	< 1.0	< 1.0	< 0.040	-
		2005 01 (Spring)	0.59	0.83	9.9	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	0.16	0.073	6.7	< 0.050	< 0.050	60.0	11.0	140	140	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	0.10	0.10	7.0	0.010 J	< 0.050	62.0	14.0	180	180	< 1.0	< 1.0	< 0.040	-
		2004 01 (Spring)	0.16	0.46	2.8	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	0.14	0.23	3.5	< 0.10	< 0.10	113	15.2	155	155	< 5.0	-	< 1.0	-
		2003 03 (Fall)	0.033	0.079	1.3	< 0.10	< 0.10	62.1	19.8	114	-	-	-	< 1.0	-
	M05-01	2005 02 (Summer)	< 0.0050	< 0.0050	4.6	740	< 1.0	6800	1900	450	450	< 1.0	< 1.0	0.12	-
		2004 04 (Winter)	< 0.0050	< 0.0050	2.4	< 0.25	< 0.50	4000	430	450	450	< 1.0	< 1.0	0.12	-
		2004 02 (Summer)	< 0.010	< 0.010	1.7	< 0.25	< 0.50	3400	380	490	490	< 1.0	< 1.0	0.060	-
		2003 04 (Winter)	*< 0.0030*	*< 0.0030*	0.28	< 1.0	-	7830	1050	303	303	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.64	< 1.0	< 10.0 UJ	7250	782	349	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.35	< 0.25	< 0.50	3300	420	290	290	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	2.2 J	< 0.25	< 0.25	5200	480	540	540	< 1.0	< 1.0	0.29	-
	M05-04	2007 01 (Spring)	< 0.0050	< 0.0050	1.5	0.58	< 0.050	230	53.0	370	370	< 10.0	< 10.0	< 0.040	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-04	2006 01 (Spring)	< 0.0050	< 0.0050	2.7	1.6	< 0.050	400	120	500	500	< 1.0	< 1.0	< 0.040	-
	M05-05	2007 01 (Spring)	< 0.0017	< 0.0018 UJ	4.9	< 10.0	< 5.0	12500	38.1 J	-	-	-	-	0.97 J	25500
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.87	< 0.050	13.0	15.0	180	180	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	0.0080 J	< 0.0050	0.32	0.95	< 0.10	590	50.0	260	260	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.48	0.29	< 0.050	180	28.0	220	220	< 1.0	< 1.0	0.11	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	1.0	< 0.050	120	35.0	170	170	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.012	1.0	< 0.10	241	57.1	225	225	< 5.0	-	< 1.0	-
		2003 02 (Summer)	0.0016 J	< 0.0030	0.048	0.99	< 1.0	443	58.5	229	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.023	1.3 J	< 0.050 UJ	590	82.0	230	230	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	0.018 J	< 0.010 UJ	2.8 J	0.73	< 0.10	1100	94.0	320	320	< 1.0	< 1.0	< 0.040	-
	M05-08	2007 01 (Spring)	< 0.0050	< 0.0050	1.7	0.18	< 0.050	160	19.0	270	270	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	1.4	0.46	< 0.050	130	15.0	220	220	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050 UJ	< 0.0050	2.3	0.040 J	< 0.050	240	12.0	210	210	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	2.3	0.25	< 0.050	200	20.0	240	240	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	2.2	0.040 J	< 0.050	300	16.0	280	280	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	1.8	0.31	< 0.10	316	32.5	245	245	< 5.0	-	< 1.0	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-08	2003 02 (Summer)	< 0.0030	< 0.0030	0.81	< 0.10	< 1.0	475	16.8	311	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	1.0	0.17	< 0.050	300	34.0	250	250	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.57	0.15	< 0.050	370	31.0	240	240	< 1.0	< 1.0	-	-
	M05-09	2007 01 (Spring)	< 0.0017	< 0.0018 UJ	0.0021	0.32	< 0.10	23.1	20.4	-	-	-	-	< 1.0	303
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.19	< 0.050	12.0	22.0	240	240	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050 UJ	< 0.0050	4.5	0.060	< 0.10	610	19.0	410	410	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0060	0.11	< 0.050	33.0	20.0	180	180	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	9.8	< 0.10	< 0.25	1500	0.36 J	710	710	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.015	0.15	< 0.10	54.7	28.8	220	220	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	2.0	0.27	< 1.0	595	12.4	370	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	0.040 J	< 0.050 UJ	38.0	22.0	240	240	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	< 0.010 UJ	0.080	< 0.050	19.0	20.0	200	200	< 1.0	< 1.0	< 0.040	-
	M05-10	2003 02 (Summer)	0.0035	< 0.0030	0.78	0.15 J	< 0.10	43.7 J	17.0	158	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.63	0.11 J	< 0.050 UJ	29.0	19.0	130	130	< 1.0	< 1.0	0.070	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	< 0.010 UJ	0.090	< 0.030 J	13.0	20.0	59.0	59.0	< 1.0	< 1.0	< 0.040	-
	M05-11	2007 01 (Spring)	0.0030 J	0.0040 J	15.0	< 0.50	< 1.0	6600	< 5.0	1200	1200	< 10.0	< 10.0	1.4	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-11	2006 01 (Spring)	0.0030 J	< 0.0050	16.0	< 0.50	< 1.0	6500	< 5.0	1400	1400	< 1.0	< 1.0	< 0.040	-
	M05HW-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.57	0.14	< 0.050	290	35.0	300	300	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	0.0090	1.4	1.2	< 0.050	260	39.0	230	230	< 1.0	< 1.0	< 0.040	-
	M10-01	2007 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.21	< 0.050	75.0	20.0	200	200	< 6.7	< 6.7	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	0.022	0.030 J	< 0.050	98.0	23.0	220	220	< 1.0	< 1.0	< 0.040	-
	M10-02	2007 01 (Spring)	< 0.0050	< 0.0050	0.0040 J	0.41	< 0.050	7.4	15.0	120	120	< 5.0	< 5.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.50	< 0.050	11.0	17.0	120	120	< 1.0	< 1.0	< 0.040	-
	M117-E	2007 01 (Spring)	< 0.0050	< 0.0050	7.1	< 0.050	< 0.10	780	11.0	760	760	< 10.0	< 10.0	0.040	-
		2006 01 (Spring)	0.18	0.21	4.8	< 0.050	< 0.10	620	7.5	470	470	< 1.0	< 1.0	0.16	-
	M12-04	2007 01 (Spring)	< 0.0050	< 0.0050	0.017	0.40	< 0.050	170	42.0	190	190	< 6.7	< 6.7	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	0.011	0.46	< 0.050	150	49.0	110	110	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050 UJ	< 0.0050	0.015	0.33	< 0.050	130	37.0	150	150	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.041	0.63	< 0.050	220	50.0	180	180	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	0.022	0.57	< 0.050	120	40.0	190	190	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.020	0.78	< 0.10	120	43.7	197	197	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.041	0.49	< 0.10	86.9	38.5	158	-	-	-	< 1.0	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M12-04	2002 04 (Winter)	< 0.010	< 0.010	0.066	0.77	< 0.050	170	46.0	130	130	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	0.028 J	0.64	< 0.050	79.0	35.0	160	160	< 1.0	< 1.0	< 0.040	-
SWBZ	D05-01	2007 01 (Spring)	< 0.0017	< 0.0018 UJ	0.0059	< 10.0	< 5.0	15500	2240	-	-	-	-	< 1.0	28500
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0050	< 1.0	< 2.5	15000	2400	910	910	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0060	< 1.0	< 2.5	16000	2500	900	900	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0070	< 1.3	< 2.5	17000	2500	860	860	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	16000	2400	1000	1000	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0089	< 1.0	< 1.0	3000	391	1080	1080	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0033	< 1.0	< 50.0 UJ	18600	2510	867	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	16000	2700	850	850	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	16000	2400	910	910	< 1.0	< 1.0	< 0.040	-
	D05-04	2007 01 (Spring)	< 0.0017	< 0.0018 UJ	< 0.0010 UJ	< 15.0	< 7.5	17900	3010	-	-	-	-	< 1.0	33500
		2006 01 (Spring)	-	-	-	< 1.0	< 2.5	18000	3000	570	570	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	-	-	-	0.23	< 0.15	1200	39.0	510	510	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	20000	2900	680	680	< 1.0	< 1.0	0.060	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	19000	3000	660	660	< 1.0	< 1.0	0.23	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMU 2	D05-05	2007 01 (Spring)	0.0011 J	< 0.0018 UJ	< 0.0062	16.4 J	< 10.0	18100	3280	-	-	-	-	< 1.0	33700
		2006 01 (Spring)	-	-	-	< 1.0	< 2.5	18000	3000	510	510	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	19000	3400	730	730	< 1.0	< 1.0	0.74	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	19000	3200	640	640	< 1.0	< 1.0	5.3	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	19000	3200	600	600	< 1.0	< 1.0	0.37	-
	D05-06	2007 01 (Spring)	-	-	-	< 1.0	< 2.5	19000	3300	580	580	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	-	-	-	< 1.0	< 2.5	18000	3300	520	520	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	18000	3200	590	590	< 1.0	< 1.0	0.10 J	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	20000	3500	610	610	< 1.0	< 1.0	0.090	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	20000	3400	560	560	< 1.0	< 1.0	< 0.040	-
	D05-07	2005 02 (Summer)	-	-	-	< 1.3	< 2.5	20000	3400	560	560	< 1.0	< 1.0	0.30	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	*21000*	*3300*	*560*	*560*	*< 1.0*	*< 1.0*	*0.090*	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	20000	3100	510	510	< 1.0	< 1.0	< 0.040	-
	D05-08	2005 02 (Summer)	-	-	-	< 1.3	< 2.5	19000	3100	580	580	< 1.0	< 1.0	0.17 J	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	21000	3300	580	580	< 1.0	< 1.0	11.0	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	20000	3100	550	550	< 1.0	< 1.0	< 0.040	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 6.1-9

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 2C - IR Site 5 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D12-01	2007 01 (Spring)	< 0.0050	< 0.0050	0.0030 J	< 1.3	< 2.5	22000	2500	860	860	< 10.0	< 10.0	< 0.040	-
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	< 1.3	< 2.5	22000	2500	840	840	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	< 1.3	< 2.5	22000	2800	1300	1300	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0030 J	< 1.3	< 2.5	24000	2500	770	770	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	23000	2500	810	810	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0044	< 1.0	-	24300 J	2240	866	866	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0015 J	< 1.0	< 50.0 UJ	26000	2590	780	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 2.5	< 2.5	23000	2500	800	800	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	23000	2600	790	790	< 1.0	< 1.0	< 0.040	-

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	4	12	6.0 J	M12-04	27 Mar 2007	3.3 J	M05-09	2002 03 (Fall)
Benzene (UG/L)	3	12	2.7	M05-11	27 Mar 2007	3.0 J	2MW8S	2004 01 (Spring)
TPH-Diesel (UG/L)	3	11	300	M117-E	02 Oct 2006	470 J	2MW8S	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	4	12	2.5	M05HW-01	27 Mar 2007	12.0	2MW8S	2003 04 (Winter)
TPH-Jet Fuel (UG/L)	1	11	74.0	M117-E	02 Oct 2006	420 J	2MW8S	2005 01 (Spring)
Toluene (UG/L)	1	12	0.10 J	M05-11	03 Oct 2006	6.0	2MW8S	2003 04 (Winter)
Trichloroethene (UG/L)	8	12	39.0	M05-04	26 Mar 2007	240	2MW8S	2003 04 (Winter)
1,1-Dichloroethene (UG/L)	3	12	6.8	M05-02	01 May 2007	9600 J	2MW8S	2003 04 (Winter)
TPH-Motor Oil (UG/L)	1	11	180 J	M117-E	02 Oct 2006	200	2MW8S	2003 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	6	12	25.0	M05-02	02 Oct 2006	200 J	2MW8S	2004 02 (Summer)
Bromoform (UG/L)	2	12	0.20 J	M10-02	02 Oct 2006	--	NA	NA
trans-1,2-Dichloroethene (UG/L)	5	12	3.0	M05HW-01	03 Oct 2006	5.9 J	2MW8S	2004 01 (Spring)
1,1-Dichloroethane (UG/L)	6	12	14.0	M05-02	01 May 2007	20000	2MW8S	2003 04 (Winter)
Carbon Disulfide (UG/L)	1	12	0.10 J	M05-04	26 Mar 2007	32.0 J	2MW8S	2003 04 (Winter)
1,1,1-Trichloroethane (UG/L)	1	12	5.0	M05-04	26 Mar 2007	360000	2MW8S	2003 04 (Winter)
Chlorobenzene (UG/L)	2	12	0.60	M05HW-01	03 Oct 2006	0.76 J	2MW8S	2003 04 (Winter)
1,2-Dichlorobenzene (UG/L)	3	12	9.0	M05HW-01	03 Oct 2006	5.0	M05HW-01	2006 01 (Spring)
Chloroethane (UG/L)	1	12	0.30 J	M05-04	04 Oct 2006	25000	2MW8S	2006 01 (Spring)
Vinyl Chloride (UG/L)	5	12	2.3	M05HW-01	03 Oct 2006	170	2MW8S	2004 01 (Spring)
1,3-Dichlorobenzene (UG/L)	1	12	0.80	M05HW-01	03 Oct 2006	0.50	M05HW-01	2006 01 (Spring)
Chloroform (UG/L)	1	12	0.70	M05-04	26 Mar 2007	14.0	M05-10	2002 02 (Summer)
1,4-Dichlorobenzene (UG/L)	2	12	1.8	M05HW-01	03 Oct 2006	1.2	2MW8S	2003 04 (Winter)
1,2-Dichloropropane (UG/L)	1	12	0.60	M10-01	03 Oct 2006	0.30 J	M10-01	2006 01 (Spring)
Isopropyl Ether (UG/L)	4	12	0.90	M05-11	27 Mar 2007	1.2	M05-02	2004 04 (Winter)
Methylene Chloride (UG/L)	2	12	0.99 J	M05-02	01 May 2007	120 J	2MW8S	2005 01 (Spring)
Methyl ethyl ketone (MEK) (UG/L)	1	12	0.20 J	M05-02	02 Oct 2006	0.70 J	M05-02	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
sec-Butylbenzene (UG/L)	1	12	0.080 J	M05HW-01	03 Oct 2006	0.92 J	2MW8S	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	2	6	7.6 J	D05-03	02 Oct 2006	5.4 J	D05-06	2004 04 (Winter)
TPH-Diesel (UG/L)	1	3	1500	D05-03	02 Oct 2006	--	NA	NA
TPH-Jet Fuel (UG/L)	1	2	540	D05-03	02 Oct 2006	--	NA	NA
Trichloroethene (UG/L)	2	6	3.5	D05-06	03 Oct 2006	20.0	D05-04	2005 02 (Summer)
TPH-Motor Oil (UG/L)	1	3	1100	D05-03	02 Oct 2006	140 J	D05-03	2003 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	2	6	1.4	D05-06	03 Oct 2006	1.9	D05-04	2005 02 (Summer)
1,1-Dichloroethane (UG/L)	2	6	1.2	D05-06	03 Oct 2006	2.9	D05-04	2005 02 (Summer)
Carbon Disulfide (UG/L)	2	6	0.28 J	D05-03	01 May 2007	6.2	D05-06	2005 02 (Summer)
1,1,1-Trichloroethane (UG/L)	1	6	0.30 J	D05-06	03 Oct 2006	2.3	D05-04	2005 02 (Summer)
Vinyl Chloride (UG/L)	1	6	0.10 J	D05-05	03 Oct 2006	0.80	D05-04	2005 02 (Summer)
Chloroform (UG/L)	1	6	0.60	D05-06	03 Oct 2006	10.0	D05-06	2004 02 (Summer)
2-Hexanone (UG/L)	1	6	0.60 J	D05-05	03 Oct 2006	1.4 J	D05-05	2004 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	2	6	2.2 J	D05-03	02 Oct 2006	1.9 J	D05-05	2004 04 (Winter)
Methyl isobutyl ketone (MIBK) (UG/L)	2	6	0.30 J	D05-05	03 Oct 2006	0.40 J	D05-05	2004 04 (Winter)
Tert-butyl alcohol (UG/L)	1	5	1.0 J	D05-05	03 Oct 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
1,4 Dioxane (UG/L)	1	4	27.0	M05-02	01 May 2007	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Organochlorine Pesticides								
gamma-Chlordane (UG/L)	1	1	0.0020 J	M10-01	03 Oct 2006	0.010 J	2MW8S	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Ethane (MG/L)	1	10	0.0030 J	M05-11	27 Mar 2007	0.59	2MW8S	2005 01 (Spring)
Ethene (MG/L)	1	10	0.0040 J	M05-11	27 Mar 2007	0.83	2MW8S	2005 01 (Spring)
Methane (MG/L)	9	10	15.0	M05-11	27 Mar 2007	16.0	M05-11	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Ethane (MG/L)	1	4	0.0011 J	D05-05	01 May 2007	--	NA	NA
Methane (MG/L)	2	4	0.0059	D05-01	01 May 2007	0.0089	D05-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	7	12	1.6	M05HW-01	27 Mar 2007	1.7	M05-05	2006 01 (Spring)
Arsenic (UG/L)	12	12	36.0	M05-08	03 Oct 2006	43.0	M05-08	2004 02 (Summer)
Barium (UG/L)	4	4	184 J	M05-05	01 May 2007	420	M05-05	2002 02 (Summer)
Beryllium (UG/L)	2	12	1.5 J	M05HW-01	27 Mar 2007	0.44 J	M05-08	2004 02 (Summer)
Cadmium (UG/L)	2	12	0.30 J	M05-04	26 Mar 2007	12.0	2MW8S	2006 01 (Spring)
Chromium (UG/L)	6	12	4.0 J	M10-02	27 Mar 2007	36.1	M05-10	2003 02 (Summer)
Hexavalent Chromium (UG/L)	3	12	50.0	M05-08	03 Oct 2006	35.0	M05-10	2003 02 (Summer)
Cobalt (UG/L)	2	4	1.1 J	M05-05	01 May 2007	5.3 J	M05-01	2004 01 (Spring)
Copper (UG/L)	12	12	1.9 J	M05HW-01	27 Mar 2007	2.4 J	M12-04	2006 01 (Spring)
Lead (UG/L)	2	12	0.25 J	M117-E	04 Apr 2007	1.2 J	M05-08	2002 02 (Summer)
Manganese (UG/L)	4	4	714 J	M05-05	01 May 2007	1500	M05-05	2002 02 (Summer)
Mercury (UG/L)	1	12	0.33	M12-04	27 Mar 2007	0.31 J	2MW8S	2004 01 (Spring)
Molybdenum (UG/L)	1	1	3.4 J	M05-02	02 Oct 2006	25.0	M05-01	2002 04 (Winter)
Nickel (UG/L)	11	12	18.0 J	M05-02	02 Oct 2006	25.6	2MW8S	2004 01 (Spring)
Selenium (UG/L)	4	12	11.2 J	M05-02	01 May 2007	16.0	M05-01	2002 02 (Summer)
Silver (UG/L)	4	12	1.3 J	M05HW-01	27 Mar 2007	--	NA	NA
Thallium (UG/L)	1	12	1.0 J	M05HW-01	27 Mar 2007	8.3	2MW8S	2005 01 (Spring)
Vanadium (UG/L)	3	4	8.3 J	M05-05	01 May 2007	11.0	M05-06	2005 02 (Summer)
Zinc (UG/L)	8	12	58.0	M05-04	04 Oct 2006	50.0	M12-04	2006 01 (Spring)
Aluminum (UG/L)	2	4	115	M05-02	01 May 2007	230	M05-01	2005 01 (Spring)
Iron (UG/L)	2	4	1300	M05-02	02 Oct 2006	4400	M05-09	2005 02 (Summer)
Calcium (MG/L)	1	1	56.0	M05-02	02 Oct 2006	203	M05-01	2003 03 (Fall)
Magnesium (MG/L)	1	1	69.0	M05-02	02 Oct 2006	509	M05-01	2003 02 (Summer)
Potassium (MG/L)	1	1	37.0	M05-02	02 Oct 2006	188	M05-01	2003 04 (Winter)
Sodium (MG/L)	1	1	1100 J	M05-02	02 Oct 2006	4150	M05-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	2	5	4.5 J	D05-04	01 May 2007	22.9 J	D05-01	2003 02 (Summer)
Arsenic (UG/L)	5	5	21.7 J	D05-04	01 May 2007	16.0	D05-01	2006 01 (Spring)
Barium (UG/L)	4	4	546 J	D05-03	01 May 2007	849	D05-03	2003 02 (Summer)
Cadmium (UG/L)	1	5	0.37 J	D12-01	26 Mar 2007	2.3 J	D05-03	2004 02 (Summer)
Cobalt (UG/L)	4	4	6.8 J	D05-03	01 May 2007	18.7	D12-01	2003 02 (Summer)
Copper (UG/L)	2	5	0.51 J	D05-03	02 Oct 2006	15.0	D05-03	2003 01 (Spring)
Manganese (UG/L)	4	4	17500	D05-05	01 May 2007	17000	D12-01	2004 02 (Summer)
Nickel (UG/L)	3	5	17.0 J	D12-01	26 Mar 2007	33.0	D12-01	2002 04 (Winter)
Selenium (UG/L)	3	5	108	D05-05	01 May 2007	58.0	D12-01	2005 02 (Summer)
Silver (UG/L)	4	5	4.8	D05-05	01 May 2007	17.0	D05-03	2004 02 (Summer)
Thallium (UG/L)	3	4	65.2	D05-05	01 May 2007	6.3	D05-03	2004 04 (Winter)
Vanadium (UG/L)	2	4	1.3 J	D05-03	01 May 2007	9.9 J	D05-03	2003 04 (Winter)
Zinc (UG/L)	1	5	12.0 J	D05-03	02 Oct 2006	100	D05-01	2005 02 (Summer)
Iron (UG/L)	4	4	845	D05-05	01 May 2007	5400	D05-01	2003 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current *Sampling Year*	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	*8*	*8*	*1200*	*M05-11*	*27 Mar 2007*	*1400*	*M05-11*	*2006 01 (Spring)*
Sulfide (MG/L)	3	10	1.4	M05-11	27 Mar 2007	0.29	M05-01	2002 02 (Summer)
Alkalinity, bicarbonate (MG/L)	8	8	1200	M05-11	27 Mar 2007	1400	M05-11	2006 01 (Spring)
Total Dissolved Solids (UG/L)	2	2	25500	M05-05	01 May 2007	--	NA	NA
Nitrate (MG/L)	7	10	0.58	M05-04	26 Mar 2007	740	M05-01	2005 02 (Summer)
Chloride (MG/L)	10	10	12500	M05-05	01 May 2007	7830	M05-01	2003 04 (Winter)
Sulfate (as SO4) (MG/L)	9	10	53.0	M05-04	26 Mar 2007	1900	M05-01	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-10

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 2C - IR Site 5 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 2C - IR Site 5 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	2	2	860	D12-01	26 Mar 2007	1300	D12-01	2005 02 (Summer)
Alkalinity, bicarbonate (MG/L)	2	2	860	D12-01	26 Mar 2007	1300	D12-01	2005 02 (Summer)
Total Dissolved Solids (UG/L)	3	3	33700	D05-05	01 May 2007	--	NA	NA
Nitrate (MG/L)	1	5	16.4 J	D05-05	01 May 2007	0.23	D05-04	2005 02 (Summer)
Chloride (MG/L)	5	5	22000	D12-01	26 Mar 2007	26000	D12-01	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	5	5	3300	D05-06	26 Mar 2007	3500	D05-06	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6.1-11
Recommended Changes to Basewide Groundwater Monitoring Program, Operable Unit 2C - IR Site 5 Group

				Organic Compounds							Inorganic Compounds			Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Total Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Total Dissolved Solids (EPA 160.1)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells																			
First	2MW8S	Fill	8.5 - 13.5	S	S	S	S	A	A	S	S[1]	S		A	A	A	A		A
	M05-02	Fill	4 - 14			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	L05-02	BSU	20 - 30			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-04	Fill	5 - 15	S	S	S	S		A		S[1]	S		A	A	A	A		A
	M05-05	Fill	4 - 14	S	S	Q	Q		Q		Q	S		Q	Q	Q	Q	Q	Q
	L05-06	BSU	20 - 30			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-06	Fill	3 - 13	S	S	S	S		A		S[1]	S							
	M05-08	Fill-BSU	7 - 15	S	S	S	S		A		S[1]	S		A	A	A	A		A
	M05-09	Fill	5 - 15	S	S	S	S		A		S[1]	S		A	A	A	A		A
	M05-11	Fill	5 - 15	S	S	S	S		A		S[1]	S		A	A	A	A		A
	M05-13	Fill	10 - 15			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	L05-01	BSU	20 - 30			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-14	Fill	10 - 15			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	L05-03	BSU	15 - 25			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-15	Fill	10 - 15	Q	Q	Q	Q		Q		Q	Q	Q	Q	Q	Q	Q	Q	Q
	L05-04	BSU	20 - 30	Q	Q	Q	Q		Q		Q	Q	Q	Q	Q	Q	Q	Q	Q
	M05-16	Fill	10 - 15	Q	Q	Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	L05-05	BSU	20 - 30	Q	Q	Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-17	Fill	5.5 - 15.5			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-18	Fill	4 - 14			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-19	Fill	10 - 15	Q	Q	Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	M05-20	Fill	10 - 15	Q	Q	Q	Q		Q		Q	Q	Q	Q	Q	Q	Q	Q	Q
	M05HW-01	Fill	5 - 15	S	S	S	S		A		S[1]	S		A	A	A	A		A
	M10-01	Fill-BSU	4 - 14	S	S	S	S		A	S	S[1]	S		A	A	A	A		A
	M10-02	Fill	3 - 13	S	S	S	S		A		S[1]	S		A	A	A	A		A

Table 6.1-11
Recommended Changes to Basewide Groundwater Monitoring Program, Operable Unit 2C - IR Site 5 Group

				Organic Compounds							Inorganic Compounds			Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Total Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Total Dissolved Solids (EPA 160.1)	Ferrous Iron by (Hach 8146)
First	M117-E	Fill-BSU	8 - 18	S	S	S					S[1]	S		A	A	A	A		A
	M12-04	Fill-BSU	4 - 14	S	S	S					S[1]	S		A	A	A	A		A
Second	D05-01	Merritt	60 - 70	A	A	A	A				A[1]	A		A	A	A	A		A
	D05-03	Merritt-USA	57 - 67	S	S	S	A				S[1]	S							
	D05-04	Lower Merritt	65 - 70			S	A								A	A	A		A
	D05-05	Lower Merritt	65 - 70			S	A								A	A	A		A
	D05-06	Lower Merritt	65.6 - 70.6			S	A								A	A	A		A
	D05-09	Merritt	60 - 70			Q	Q		Q		Q			Q	Q	Q	Q	Q	Q
	D12-01	Merritt	60 - 70	A	A	A	A				A[1]	A		A	A	A	A		A
Non-Program Wells, Water Level Only																			
First	M05-01	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-03	Fill	4 - 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M10-03	Fill	3 - 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M116-E	Fill	10 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05BS-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-10	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-12	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MBG-4	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M110-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M111-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M115-E	Fill	7 - 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-02	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-03	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 6.1-11
Recommended Changes to Basewide Groundwater Monitoring Program, Operable Unit 2C - IR Site 5 Group

				Organic Compounds							Inorganic Compounds			Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Total Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Total Dissolved Solids (EPA 160.1)	Ferrous Iron by (Hach 8146)
Second	D05-02	Fill	57 - 67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	D05-07	Lower Merritt	65 - 70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	D05-08	Lower Merritt	65 - 70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Q Well sampled for this analyte group QUARTERLY (re-evaluate after 4 quarterly events)

S Well sampled for this analyte group SEMIANNUALLY

A Well sampled for this analyte group ANNUALLY

[1] Priority Pollutant metals only

\- Well not in analytical program.

red font Red font in yellow highlight indicates ADDITION to previous sampling program.

white font White font in blue highlight indicates REMOVAL from previous sampling program.

BSU - Bay Sediment Unit

Fill - Artificial Fill

FT. BGS - Feet below ground surface

Merritt - Merritt Sand

RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

SVOCs - Semi-volatile Organic Compounds

TPH-E - Total Extractable Petroleum Hydrocarbons

TPH-P - Total Purgeable Petroleum Hydrocarbons

USA - Upper San Antonio Formation

VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method

N00236.003028
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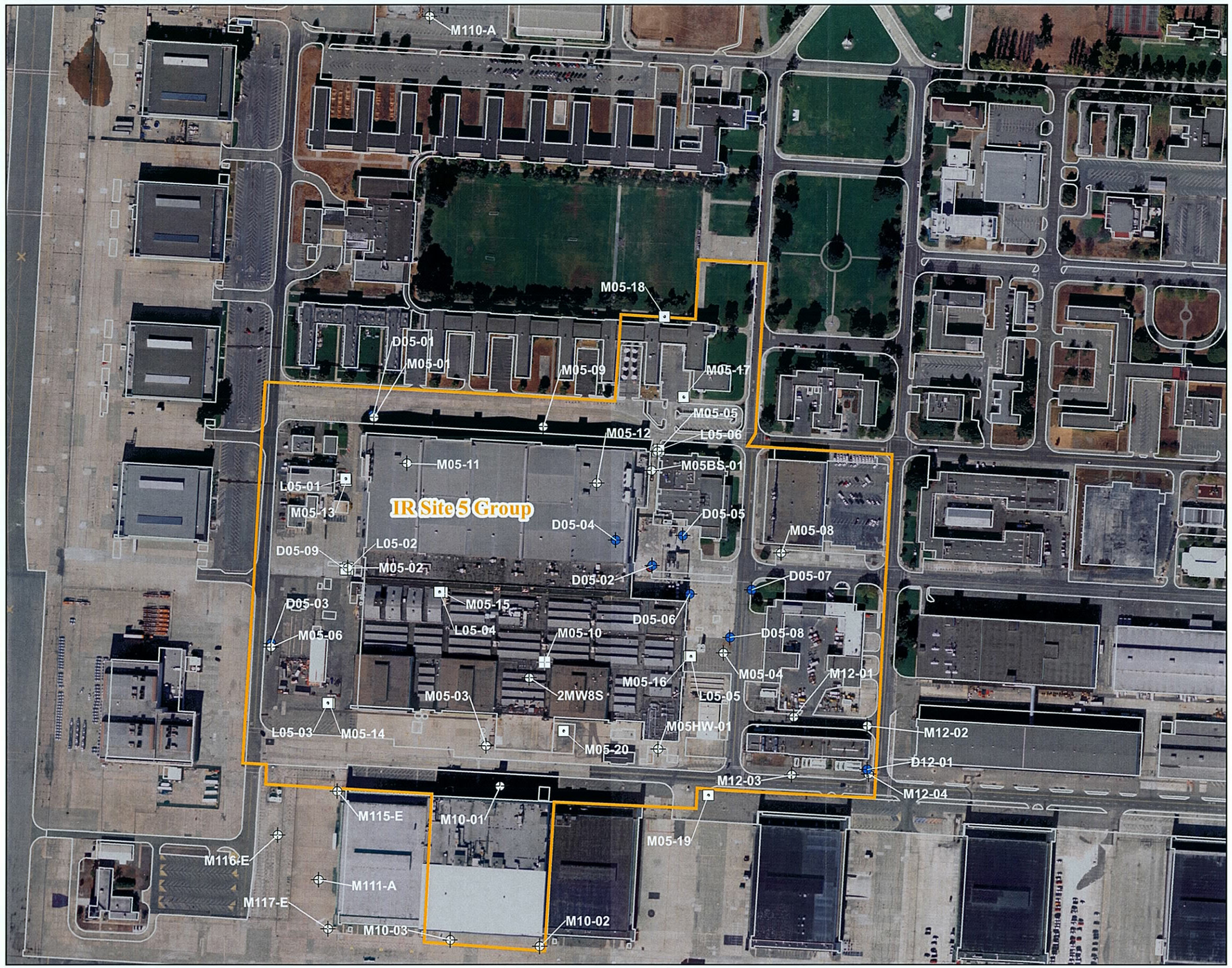
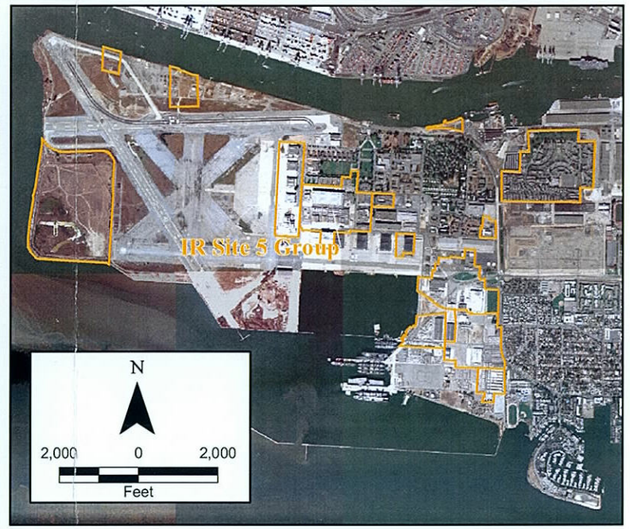
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008





Legend

- First Water Bearing Zone (FWBZ) Wells
- FWBZ Abandoned Well
- Second Water Bearing Zone (SWBZ) Wells
- New Well
- IR Site Boundary
- Facility

N

300 0 300

Feet

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FIGURE 6.1-1
OPERABLE UNIT 2C - IR SITE 5 GROUP
SITE AND WELL LOCATION MAP

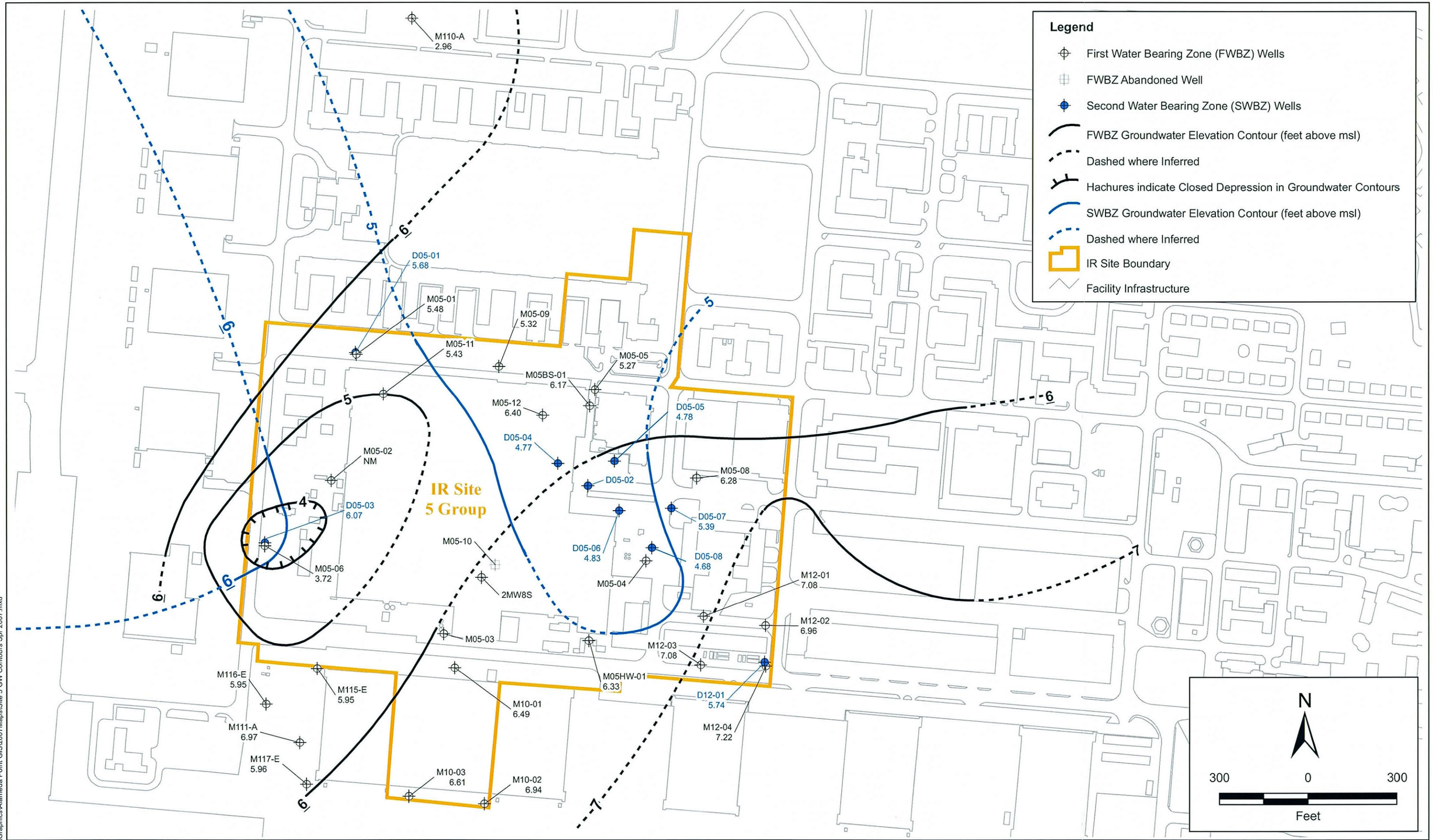

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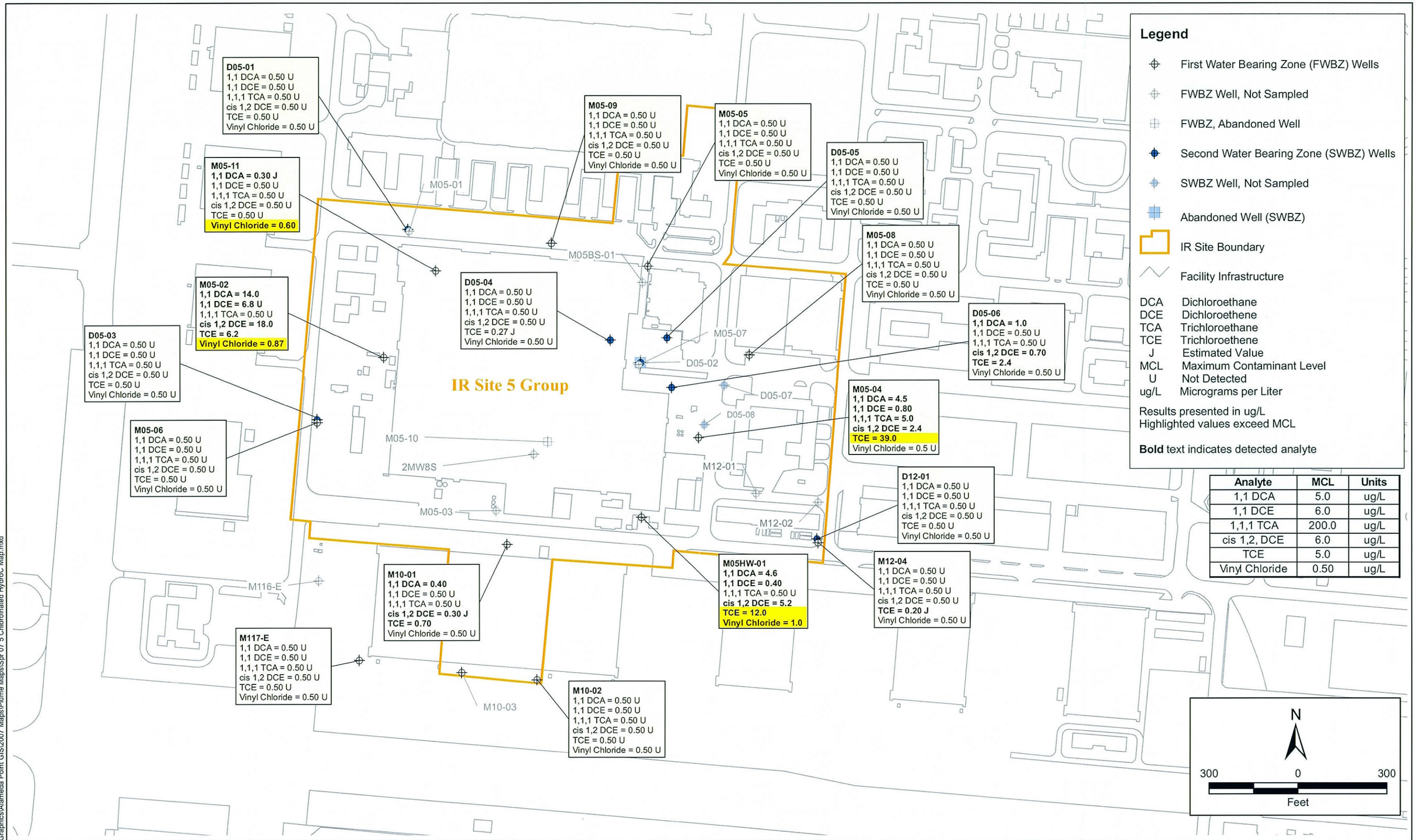
FIGURE 6.1-2
OPERABLE UNIT 2C - IR SITE 5 GROUP
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 5 Chloronated HydroC Map.mxd

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FIGURE 6.1-3
OPERABLE UNIT 2C - IR SITE 5 GROUP
GROUNDWATER CONCENTRATIONS OF SELECTED CHLORINATED HYDROCARBONS
IN FWBZ AND SWBZ WELLS
SPRING 2007

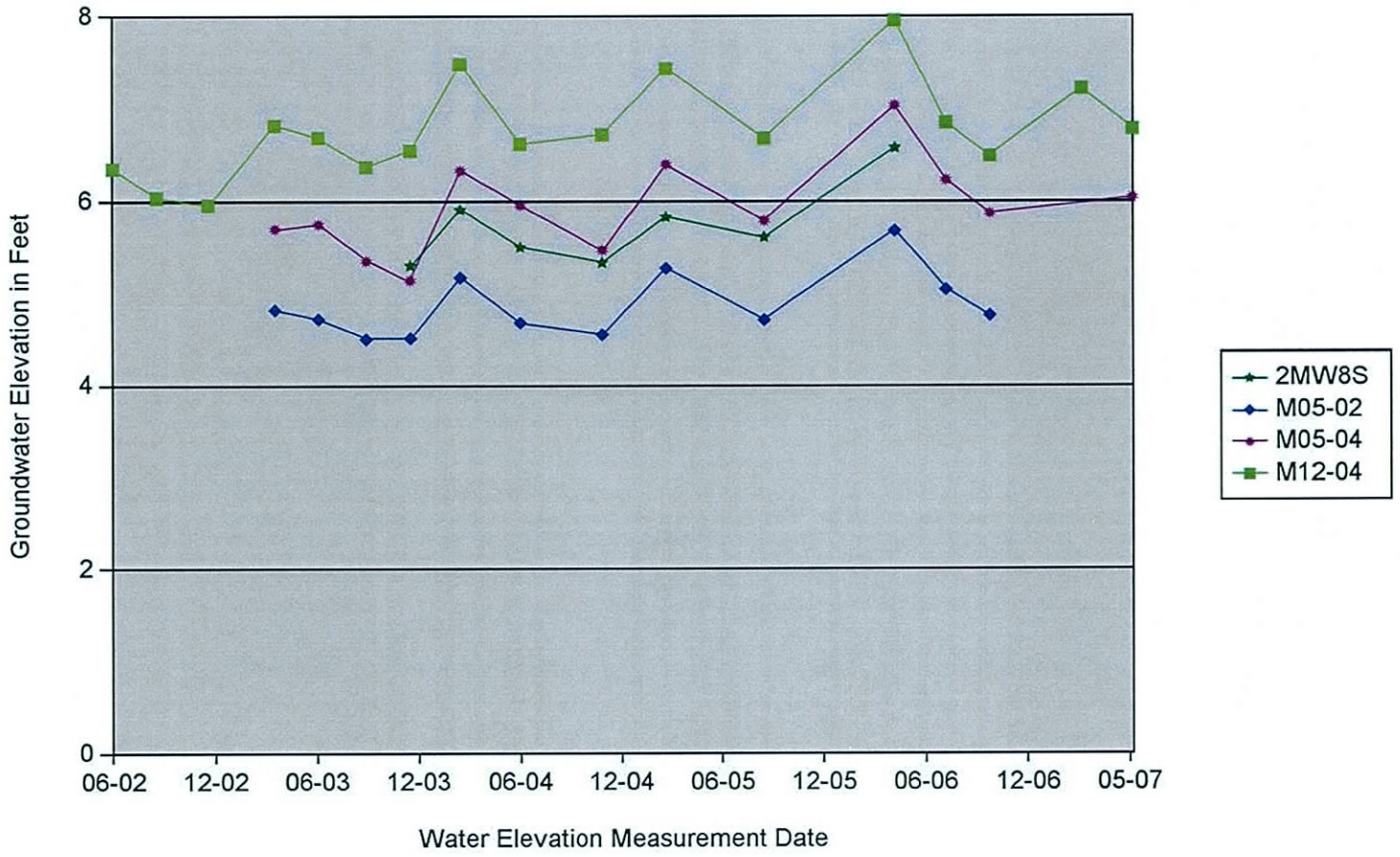

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FIGURE 6.1-4a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2C- IR SITE 5 GROUP:
EAST-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 6.1-4a.ai

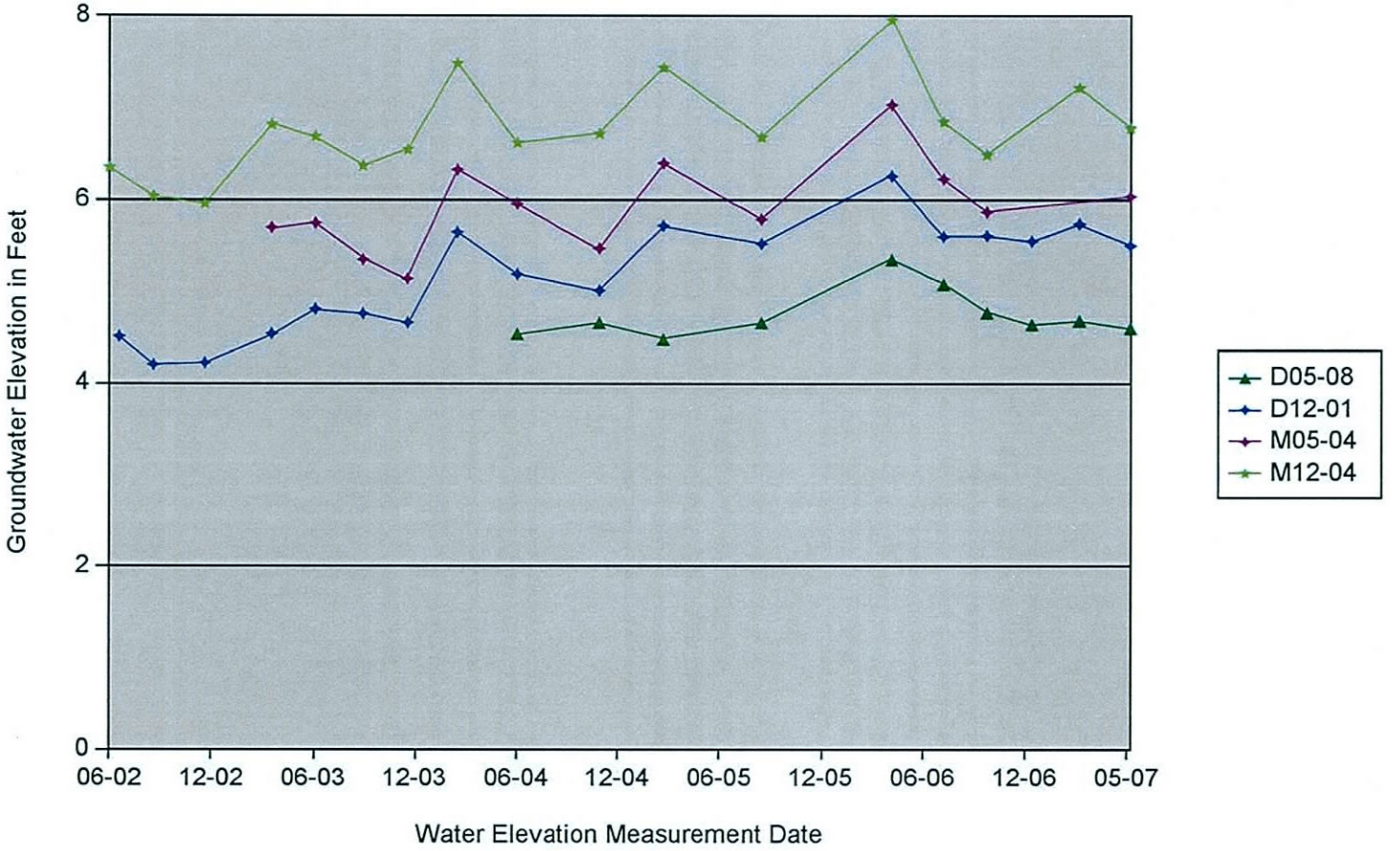

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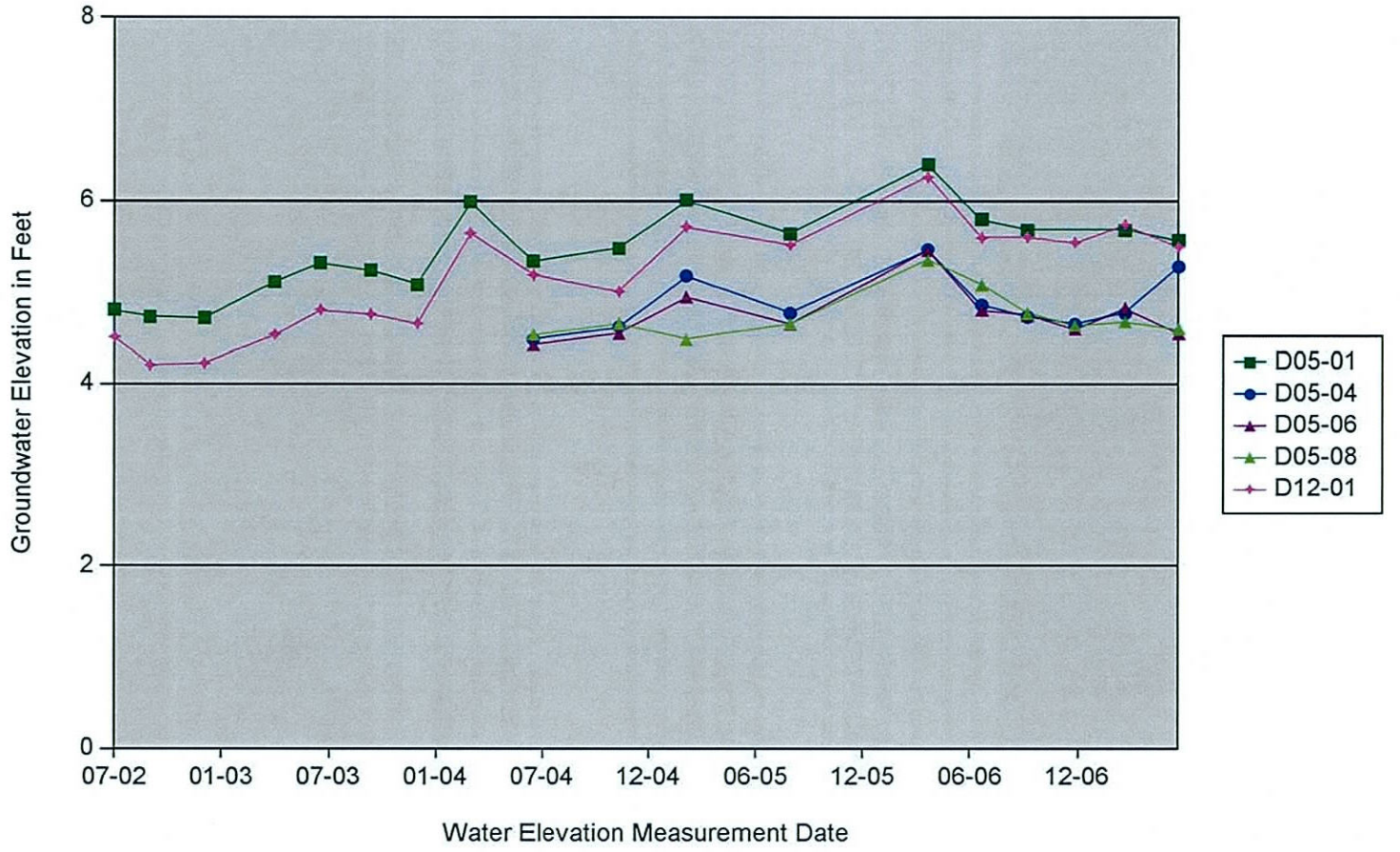
FIGURE 6.1-4b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2C- IR SITE 5 GROUP:
FWBZ WELL M05-04 AND SWBZ WELL D05-08;
FWBZ WELL M12-04 AND SWBZ WELL D12-01
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 6.1-4b.ai



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PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 6.1-4c
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 2C- IR SITE 5 GROUP:
NORTHWEST-SOUTHEAST ORIENTED SWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 5\Figure 6.1-4c.ai

Legend

- First Water Bearing Zone (FWBZ) Well
- FWBZ, Abandoned Well
- Second Water Bearing Zone (SWBZ) Well
- IR Site Boundary
- Facility Infrastructure

DCA	Dichloroethane
DCE	Dichloroethene
TCA	Trichloroethane
TCE	Trichloroethene
MCL	Maximum Contaminant Level
ug/L	Micrograms per Liter

- 1,1 DCA
- 1,1 DCE
- 1,1,1 TCA
- cis 1,2 DCE
- TCE
- Vinyl Chloride

Analyte	MCL	Units
1,1 DCA	5	UG/L
1,1 DCE	6	UG/L
1,1,1 TCA	200	UG/L
cis 1,2 DCE	6	UG/L
TCE	5	UG/L
Vinyl Chloride	0.5	UG/L

N

300 0 300

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 5 Chlor HydroC Trend Map.mxd

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FIGURE 6.1-5
OPERABLE UNIT 2C - IR SITE 5 GROUP
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

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ALAMEDA POINT
SSIC NO. 5090.3.A.

Spring 2007
Alameda Basewide
Annual Groundwater Monitoring Report

Final

Alameda Point
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Response to GSU Comments On The Draft Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report, Alameda Point, Alameda, California Issued September 2007

GENERAL COMMENT

A. Natural attenuation (NA) parameters are routinely analyzed at the Installation Restoration (IR) sites included in the Alameda Point Basewide Groundwater Monitoring Program (BGMP). However, trends in NA parameters are not discussed in the Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report (Annual GMR). Because the results of these data are not discussed, it is not clear how these data are being used. GSU questions whether continued monitoring for NA parameters at all sites is necessary. The Navy might consider performing an evaluation of the monitoring wells that are sampled for NA parameters to determine whether useful data are being obtained and meaningful trends are being observed. Recommendations for changes to the schedule for NA parameter monitoring at some sites may be warranted.

RESPONSE:
Currently, all monitoring for NA parameters under the BGMP is conducted on an annual basis. The Navy agrees that collection of additional NA parameter data may not be warranted for all sites. The data set for NA parameters for each site has been analyzed, considering (a) the extent of the data-set that is currently available for the site, accounting for possible seasonal variabilities; and (b) site needs and site maturity within the CERCLA process. It is possible that for some sites, it may be helpful to collect a final round of current NA data at the time of the RD/RA. The recommendations are as follows:

Operable Unit	IR Site	NA Sampling Decision
OU-1	IR Site 6	YES, continue NA sampling under the BGMP
	IR Site 7	NO
	IR Site 8	NO – discontinue all sampling as it is being evaluated under the CERCLA program.
	IR Site 14	NO- all sampling under the BGMP is suspended while site is in remediation
OU-2A	IR Site 9 Group	NO-discontinue NA sampling
OU-2B	IR Site 3 Group	NO discontinue NA sampling.
OU-2C	IR Site 5 Group	YES continue NA sampling
OU-3	IR Site 1	YES, continue NA sampling for the present time
OU-4A	IR Site 2	NO. discontinue NA sampling for the present time
OU-5	IR Site 25	NO Site has been removed from Basewide Program
OU-6	IR Site 27	NO-Site is in RD phase, however, plans are in place to conduct NA sampling at several other wells at Site 27

These site-specific recommendations will be incorporated into the text of the report as/where appropriate.

SPECIFIC COMMENTS

1. **Section 3.3.5 – Conclusions and Recommendations.** The first paragraph of this section states that groundwater sampling at IR Site 8 is recommended to continue unchanged. The second paragraph, however, contradicts this statement and proposes changes to the analytical schedule for IR Site 8 groundwater monitoring. Please correct this discrepancy.

   RESPONSE:
   The recommendations have been revised to reflect the Navy's recent decision to suspend routine sampling under the Basewide Groundwater Monitoring Program at IR Site 8. The current plan is to defer all site work to the CERCLA program.

   Additional Note: After the Spring 2008 round, sampling at IR Site 7 will be performed under the upcoming Petroleum Basewide Sampling Program (PBSP). The PBSP is under development, and a work plan will be presented to the agencies for comment. The site is being transitioned to the Alameda Point Petroleum Program as outlined in the Site 7 ROD.

2. **Section 3.4.5 – Conclusions and Recommendations**. This section states that one or more monitoring wells installed for the data gaps investigation are recommended to be incorporated into the BGMP. However, the text does not elaborate on this recommendation nor does it provide any information about the status of the data gaps investigation. It is recommended that the text be revised to clarify when the data gaps investigation was performed, where the new wells are located, which wells are proposed for inclusion, what analytical parameters are recommended, and the basis for these recommendations.

   RESPONSE:
   The ROD was approved at IR Site 14 (on January 31, 2007) and vinyl chloride was identified as the primary contaminant of concern in groundwater. The plume was defined during the data gap investigation (in Spring 2007), and pilot testing was conducted in Fall 2007. Because the Remedial Action is scheduled to commence at IR 14 during Spring 2008, the recommendations in the draft final BWGM report have been revised to reflect the Navy's recent decision to suspend routine sampling under the Basewide Groundwater Monitoring Program at IR Site 14 while the site is under remediation.

3. **Section 4.1.2 – Analytical Parameters**. The footnote on Table 4.1-1 lists 1,4-dioxane analyses as having been performed in spring 2007. However, the text states that these analyses were inadvertently omitted by the field crew in spring 2007. Please revise the footnote to clarify that these analyses will be performed beginning in fall 2007. Please

specify the analytical method that will be used for 1,4-dioxane analysis and clarify the rationale that was used to select the three monitoring wells chosen for the analysis.

RESPONSE:
The footnote has been revised to state that 1,4-dioxane analysis of groundwater from wells MWD13-4, MW410-2, and MW410-3 was inadvertently omitted during the Spring 2007 event and that semiannual sampling for 1,4-dioxane by EPA Method 8270 SIM was initiated for these wells during the Fall 2007 sampling event. The three monitoring wells were selected based on historical detections of PCE and cis-1,2-DCE from previous sampling events.

4. **Section 4.1.5 – Conclusions and Recommendations**. Please include a recommendation for sampling for 1,4-dioxane in the three wells that were inadvertently missed during the spring 2007 sampling event. Please clarify why semiannual rather than quarterly sampling for 1,4-dioxane was chosen.

RESPONSE:
The text in the second paragraph of Section 4.1.5 has been revised as follows:

. . . the Navy intended to begin semiannual sampling for 1,4-dioxane analysis of groundwater (by EPA Method 8270 SIM) at three IR Site 9 wells (MWD13-4, MW410-2, and MW410-3) during the Spring 2007 sampling event. However, this change to the sampling program was inadvertently overlooked during the Spring 2007 event, and will be initiated instead during the Fall 2007 sampling event. Semiannual analysis for 1,4-dioxane is intended to coincide with the current semiannual schedule for VOCs at the target wells, which were selected based on historical detections of PCE and cis-1,2-DCE from previous sampling events.

5. **Section 5.1.2 – Analytical Parameters**. Please specify the analytical method that was used for 1,4-dioxane analysis and clarify the rationale that was used to select the six monitoring wells chosen for the analysis.

RESPONSE:
A bullet has been added to the list of analytic parameters identifying "1,4-dioxane by EPA Method 8270 SIM." The text has been revised as follows:

At the Navy's direction, analysis for 1,4-dioxane was added in Spring 2007 for six wells in the IR Site 3 Group: M03-10, M03-15, M03-16, MW360-1, MW360-2, and MW360-4. These six monitoring wells were selected based on historical detections of PCE or similar chlorinated hydrocarbon compounds during previous sampling events. The frequency of sampling coincides with the current sampling schedule for VOCs at the target wells

6. **Section 5.1.4 – Discussion of Results**. Please include a discussion of the analytical results for 1,4-dioxane detected in samples collected in spring 2007.

RESPONSE:
The text of the third paragraph of Section 5.1.4 has been revised as follows:
Concentrations of 1,4-dioxane were detected in two wells during the Spring 2007 sampling event: a trace concentration (0.33 J µg/L) in groundwater from well M03-10, and 73.0 µg/L in groundwater from well MW360-1. Well MW360-1 has historically shown elevated concentrations of TCE and related chlorinated hydrocarbon constituents.

7. **Section 5.1.4.5 – Trends in Groundwater Contaminant Concentrations**.

a. Please include the analytical results for 1,1-dichloroethene (1,1-DCE) on the time-series graph for monitoring well M03-10 (Figure 5.1-6), and clarify in the text that the concentrations of 1,1-DCE in this well are generally stable and not decreasing over time.

RESPONSE:
ITSI has regenerated a new set of time-series graphs for all of the selected IR Site 3 Group wells on Figure 5.1-6 to include 1,1,-DCE. The text of section 5.1.4.5 has been revised accordingly.

b. This section states that three distinct trichloroethene (TCE) plumes are evident at IR Site 3 as shown on Figure 5.1-6. The text further states that the boundaries of these plumes appear to be stable. However, this interpretation conflicts with the Navy's interpretation of the volatile organic compound (VOC) plume dimensions shown on Figure 3-17 in the Data Gap Sampling Work Plan for Operable Units 2A and 2B (Tetra Tech EC, Inc., 2007). The VOC plume presented in the Data Gap Sampling Work Plan shows a continuous plume emanating from the vicinity of Building 360 at IR Site 4 and extending to Seaplane Lagoon. The Navy should present a consistent interpretation of the VOC plumes for the IR Site 3 Group groundwater contamination.

RESPONSE:
The Data Gap Sampling Work Plan for Operable Units 2A and 2B was completed in October 2007, after the Basewide GMP Annual Report was issued. The realm of the BGMP Annual Report is to show plume boundary interpretations that are consistent with the data collected by the BGMP. This leads to apparent discrepancies in interpretation at certain sites where there are other sources of data that may be more comprehensive than those of the BGMP. It is appropriate to rely on IR Program and Data Gap Analysis documents that provide the most recent, comprehensive data

presentations for plume delineation, as opposed to the BGMP Annual Report, which provides a more limited snapshot of the data. Therefore, no changes have been made to the text of this section of the document.

c. This section states that the benzene plume shows decreasing concentrations over time at its center of mass at well M03-04. However, because concentrations in well M03-04 appear to be decreasing and concentrations in downgradient well 398-MW4 appear to be increasing, it is possible that the center of mass is moving. Thus, increasing downgradient concentrations indicate that the benzene plume is not stable, and this should be stated in the text. Also, the southwestern extent as well as the northern extent of the benzene plume is not delineated to concentrations below its maximum contaminant level (MCL), which should also be included as a statement in the text.

RESPONSE:
The text has been revised to indicate the shift of the center of mass for benzene in the downgradient direction. This well falls within an area of petroleum-related contamination (TPH CAA-3). Since the corrective action area in question is a petroleum site, any additional evaluation that is deemed necessary to address the benzene distribution in this area will be conducted under the Navy's Petroleum Program.

Note that the second paragraph of Section 5.1.5 has been revised to state: "*Due to exceedances in lead concentrations, continued quarterly monitoring of wells OU2B-MW01 and OU2B-MW02 is recommended for an additional year.*"

8. **Section 5.1.5 – Conclusions and Recommendations**.

a. Please clarify that other compounds of concern for the IR Site 3 Group include 1,4-dichlorobenzene and metals. Concentrations of chromium and nickel in second water-bearing zone well D03-03 located just north of Building 360 have consistently been two to three orders-of-magnitude above their respective MCLs. The Navy should investigate the source and extent of these metals in soil and groundwater at this location.

RESPONSE:
ITSI has revised the text to clarify that 1,4-DCB and metals are contaminants of concern for the site. Source investigation or other RI/FS site investigation or delineation of the nature and extent of contamination is outside the purview of the BGMP. These types of investigative activities are deferred to the appropriate CERCLA program for the site in question.

b. This section recommends the installation of additional monitoring wells to define the northern extent of the benzene plume (north-northeast of well M03-04). Please clarify the process by which this recommendation will be implemented. Also, the southwestern extent of the benzene plume (i.e., downgradient of well 398-MW4) should be investigated.

RESPONSE:
See the Response to Comment 7c, above. Any additional evaluation and investigation of benzene distribution in this area will be conducted under the Navy's Petroleum Program.

c. Does the Navy intend to continue monitoring for 1,4-dioxane in the six monitoring wells sampled in spring 2007? Will any additional monitoring wells be proposed for 1,4-dioxane analysis based on the results?

RESPONSE:
Routine monitoring for 1,4-dioxane will continue as proposed for a minimum of four events; text has been added to clarify this. The Navy has no plans to increase the number of wells sampled for 1,4-dioxane at this time.

9. **Section 6.1.5 – Conclusions and Recommendations**.

a. Information about decreasing contaminant concentration trends over time in the first paragraph of this section is contradicted by information in the last paragraph of the preceding section. For the most part, clear increasing or decreasing trends are not evident in IR Site 5 Group monitoring wells, and that should be stated clearly in the Annual GMR.

RESPONSE:
The text has been revised to indicate that no clear increasing or decreasing trends are evident at the IR Site 5 group.

b. It is not possible to concur with the proposed analytical schedule for the newly constructed monitoring wells presented on Table 6.1.11 because the report of the findings of the data gaps investigation for Operable Unit (OU)-2C has not yet been submitted to the regulatory agencies. GSU will review the proposed analytical schedule for newly constructed monitoring wells after the OU-2C data gaps investigation report has been reviewed.

Comment noted.

c. Table 6.1.11 indicates that all IR Site 5 Group wells included in the monitoring program are proposed for either quarterly, semi-annual, or annual sampling for 1,4-dioxane. However, it is not indicated how the frequency of sampling for 1,4-dioxane was determined. Please explain how the sampling frequency (i.e., quarterly, semi-annual, or annual) for 1,4-dioxane was determined for previous and newly constructed monitoring wells in the IR Site 5 Group.

RESPONSE:
The text of Section 6.1.5 has been revised to indicate that the sampling frequency for 1,4-dioxane is intended to mirror the frequency for VOC analysis for each of the wells sampled for this parameter.

d. It should be noted that monitoring well 2MW8S was most likely destroyed as part of the six-phase heating removal action performed in Building 5. Please confirm this and if so, remove this well from the recommended sampling program. GSU recommends installing a replacement monitoring well (or wells) following completion of the six-phase heating removal action to monitor for rebound.

RESPONSE:
As of December 2007, well 2MW8S was still inaccessible due to ongoing site activities for the six-phase heating removal action project. At this time, it has not been determined if the well has been destroyed. The GSU's recommendation will be submitted to the CERCLA RPM for IR Site 5.

e. Please remove monitoring well M05-10 from the figures in the Annual GMR because this well was previously abandoned.

RESPONSE:
ITSI has removed monitoring well M05-10 from the figures. This well has been confirmed abandoned as of July 2003.

10. **Section 7.1.5 – Conclusions and Recommendations**.
Some or all of the newly constructed monitoring wells at IR Site 32 should be included in the BGMP. At a minimum, water level monitoring of these wells should be performed and they should be included on tables and figures in the Annual GMR, as appropriate.

RESPONSE:
These wells are being measured for water levels on a routine (quarterly) basis and are included in Table 7.1-1. Additional sampling at these wells has been conducted separately through a supplemental investigation under the CERCLA program.

11. **Section 10.3.5 – Conclusions and Recommendations.**
Please add information to Table 10.3-1 about the new monitoring well that is recommended for inclusion in the BGMP and show its location on the figures in this section.

RESPONSE:
Table 10.3-1 has been revised (as shown below) to add information on the new monitoring well (28SW05), and Figure 10.3-1 has been revised to show its location. Note the changes in sampling frequency in the existing wells based the analytical results and volume of data already collected from these wells.

				Inorganic Compounds		
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Dissolved Metals (EPA 6010B/ 6020A/ 7470A)	Hexavalent Chromium (EPA 7196A)	TDS (EPA Method 160.1)
Groundwater Monitoring Program Wells						
First	28SW01	Fill-BSU	6 - 16	A	A	A
	28SW02	Fill-BSU	6.2 - 16.3	A	A	A
	28SW03	Fill-BSU	6.2 - 16.2	S	S	S
	28SW04	Fill-BSU	5.4 - 15.7	S	S	S
	28SW05	Fill-BSU	5 - 15	Q	Q	Q

Notes:
Q –Well sampled for this analyte group QUARTERLY; Spring 2008, Summer 2008, Fall 2008, and Winter 2008
S – Well sampled for this analyte group SEMIANNUALLY; Spring 2008 and Fall 2008
A – Well sampled for this analyte group ANNUALLY; Spring 2008

If you have any questions, please contact me at (510) 540-3926 or at mdalrymp@dtsc.ca.gov.

REFERENCE

Tetra Tech EC, Inc., 2007. *Data Gap Sampling Work Plan for Operable Units 2A and 2B, Alameda Point, Alameda, California.* October.

Response to EPA Comments on the Draft Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report Alameda Point, Alameda, California Issued September 2007

1. Data tables in the Draft Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report (the Report) indicate that the detection limit for polychlorinated biphenyl (PCB) analyses is greater than the maximum contaminant level (MCL), 0.5 micrograms per liter (µg/L) and the ambient water quality criteria (AWQC), 0.03 µg/L. The reported detection limit generally ranges from 0.94 to 0.99 µg/L. (e.g., Site 16, Site 1, Site 2). PCBs were detected at 0.15 µg/L in one well at IR Site 2, so it is unclear why the detection limits are elevated. The Sampling and Analysis Plan Addendum indicates that the reporting limit for PCB's is 0.5 µg/L. The Navy is recommending eliminating PCB analyses for Site 16, but it is unclear if PCBs are present in groundwater above the MCL and AWQC because of the elevated detection limits. It is recommended that the reason for the elevated detection limits be determined and the additional sampling and analysis to identify whether PCBs are present above the ambient water quality criteria be performed before PCBs are eliminated from the sampling program.

RESPONSE:

Groundwater samples are currently analyzed for PCBs at three sites: OU-3 (IR Site 1), OU-4A (IR Site 2) and OU-1 IR Site 16. Analytical results for PCBs at these sites are summarized below.

OU-1, IR Site 16

All results are ND. Detection limits are < 0.5 µg/L or lower for all PCB analytes except Aroclor 1221, which is typically reported at < 0.94 to < 0.99 µg/L.

OU-3, IR Site 1

All results are ND. Detection limits are < 0.5 µg/L or lower for all analytes except Aroclor 1221, typically reported at < 0.94 to < 0.99 µg/L.

OU-4A, IR Site 2

Two positive detections have been reported: 0.89 µg/L Aroclor 1242 (M036-A, Summer 2004) and 0.15 J µg/L Aroclor 1260 (M021-A, Summer 2005). All other results are ND, with detection limits < 0.5 µg/L or lower for all analytes except Aroclor 1221, as noted above. Table 8.1-7 has been corrected to indicate the total PCBs for IR Site 2.

With the exception of Aroclor 1221, all of the reported detection limits obtained thus far for groundwater samples collected under the Basewide Program are sufficiently low to detect PCB concentrations exceeding the MCL of 0.5 µg/L. Section 3.2 of ITSI's addendum to the Sampling and Analysis Plan (*Addendum 02 to the Sampling and Analysis Plan [Field Sampling Plan/Quality Assurance Project Plan], Basewide*

Groundwater Monitoring, Alameda Point, Alameda, California [ITSI, 2004]) states that the reporting limit is 0.5 µg/L "for all PCBs except Aroclor 1221, which has a reporting limit of 1.0 µg/L." All groundwater sampling for PCBs conducted under the Basewide Program has met these requirements. The reporting limits specified in the SAP are typical of the method used, EPA Method 8082. Results for the soil and groundwater sampling conducted to date at IR Site 16 have not shown any evidence that there has been a release of PCBs at this site.

2. It is unclear why soil gas analytical results tables (e.g., Table 7.1-11) include groundwater screening criteria in both the column headers and footnotes. Since groundwater criteria are not applicable to soil gas, these criteria should be deleted.

   RESPONSE:
   All references to groundwater screening criteria have been removed from the revised soil gas analytical results tables.

3. For IR Site 7, the Report recommendation to reduce the frequency of metals analyses to annual is premature, based on the limited amount of sampling and contaminant concentration trends. Metals sampling, especially arsenic, should occur semi-annually for one more year, then the frequency can be reevaluated. Please retain semi-annual sampling for metals at IR Site 7.

   RESPONSE:
   The Navy will sample dissolved metals for this site in Fall 2007 and Spring 2008. After the Spring 2008 round, the sampling will be performed under the upcoming Petroleum Basewide Sampling Program (PBSP). The PBSP is under development, and a work plan will be presented to the agencies for comment. The site is being transitioned to the Alameda Point Petroleum Program per the Site 7 ROD.

4. For IR Site 8, it appears to be premature to eliminate organochlorine pesticide analyses because heptachlor epoxide was detected for the first time in M08-05, which is located adjacent to the sump in the former pesticide mixing area. Please retain organochlorine pesticide analyses and include analysis for naphthalene if the VOC analyses are reduced from the full suite of VOC compounds.

   RESPONSE:
   It is likely the subject well is M08-06 rather than the aforementioned M08-05 in the EPA comments. The Navy will retain organochlorine pesticides and naphthalene (as part of the VOC analysis) in the sampling program for IR Site 8.

   Section 11.0 of the text has been revised to note that the current plan is to suspend routine sampling under the Basewide Groundwater Monitoring Program at IR Site 8, as this site will be evaluated under the CERCLA program beginning in Spring 2008.

5. For OU-2C (IR Site 5 Group) the Report recommendation that two wells (M117E and M12-04) be removed from the sampling program because they have been replaced by newly installed wells cannot be evaluated because none of the figures includes new or replacement wells. Please provide a figure that includes the newly installed monitoring wells so this recommendation can be evaluated.

RESPONSE:
The newly installed wells proposed for inclusion in the Basewide Groundwater Monitoring Program have been added to the figures for OU-2C (see replacement Figure 6.1-1). These wells are listed on Table 6.1-11, *Recommended Changes to Basewide Groundwater Monitoring Program, Operable Unit 2C – IR Site 5 Group.* (The new wells are designated L05-01 through L05-06, M05-13 through M05-20, and D05-09.) The text in Section 11.0 has been revised to identify the new wells and clarify the proposed modifications to the sampling program for this site.

7.0 OPERABLE UNIT 3

Operable Unit 3 is comprised of Installation Restoration Site 1 and Site 32.

7.1 INSTALLATION RESTORATION SITES 1 AND 32

IR Sites 1 and 32 are located at the northwestern end of former Runway 31, south of Oakland Inner Harbor and east of San Francisco Bay.

IR Site 1 is an inactive waste disposal area located in northwestern Alameda Point (Figure 3-1). The IR Site 1 landfill accepted all solid waste generated at Alameda Point between 1943 and 1956. Wastes included municipal garbage, construction debris, transformers, cleaning solvents, oil/lubricants, ordnance and explosive waste, and radiological materials such as radium dials and buttons. The landfill was constructed within a rock seawall to the north and sunken barges (i.e., barge lines) to the west. The rock seawall and barges provided structure for hydraulic fill. During the early 1940s, the disposal area was filled with dredge spoils. After 1956, the landfill was retired and covered to comply with existing standards. The landfill was partially covered by Runways 13-31 and 7-25 extensions in 1952. Other portions of the Site were subsequently used as a recreation area, which included a pistol range, baseball diamond, skeet range, and jogging trail. The Navy indicated on a 1988 questionnaire that the IR Site 1 disposal area is unlined (Shaw, 2004).

Potential contamination sources at IR Site 1 include the following:

- Landfill materials or waste
- Radionuclides from radium dials and buttons
- Ordnance and explosives waste
- Open burning of refuse in the northwestern portion of the site
- Pistol range materials (i.e., leaching of lead into groundwater)

IR Site 1 was selected for demonstration of a funnel and gate system to treat groundwater contaminated with chlorinated solvents (using in situ reactive iron) and petroleum hydrocarbons

(using bioremediation). The funnel and gate system was installed upgradient of well M028-E in December 1996 (Tetra Tech, 2002).

On July 21, 2003, the California Regional Water Quality Control Board issued a letter stating that "the quality and nature of the groundwater in the first and second water bearing zones beneath Alameda Point west of Saratoga Street are such that these waters are not potential sources of drinking water pursuant to State Board Resolution No. 88-63 and Regional Board Resolution 89-39." The regulatory agencies for Alameda Point concurred with this RWQCB finding. Therefore, maximum contaminant levels (MCLs) are not applicable as a regulatory limit at OU-3. Analytical results are screened against MCLs as a means of comparison only.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Sites 1 and 32 included sampling and analysis of 28 groundwater monitoring wells (20 FWBZ wells and eight SWBZ wells) and 10 soil gas monitoring points. Another nine groundwater monitoring wells (eight FWBZ and one SWBZ) are used for quarterly groundwater-level measurement only. All groundwater and soil gas monitoring points in the Summer 2006 through Spring 2007 program are listed in 7.1-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e., wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 7.1-1.

7.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 37 groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling events at IR Sites 1 and 32. The results are presented along with previously collected water-level data in Table 7.1-2. Groundwater flow direction and gradient are discussed in Section 7.1.4.1. Trends in groundwater elevations are discussed in Section 7.1.4.4.

7.1.2 Analytical Parameters

Groundwater samples collected from monitoring wells at IR Sites 1 and 32 during the Fall 2006 and Spring 2007 sampling events were analyzed for one or more of the following parameters (Table 7.1-1):

- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Total Cyanide by EPA Method 9010B/335.2
- PCBs by EPA Method 8082
- Organochlorine Pesticides by EPA Method 8081A
- Radionuclides by EPA Methods 9310/900.0, 901.1, 9315/903.0, 906.0, 904.0, 905.0, and 908 modified
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

In addition, soil gas samples collected from landfill gas monitoring points in Summer 2006 through Spring 2007 were analyzed for VOCs (EPA Method TO-15) and Fixed Gases (ASTM Method D1946). The soil gas wells had been sampled for the first time during the Spring 2005 sampling event.

7.1.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following sections, and listed along with previously obtained analytical data in the following tables:

- Table 7.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32, Summer 2002 through Spring 2007"
- Table 7.1-4, "Groundwater Sample Analytical Results: Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32, Summer 2002 through Spring 2007"
- Table 7.1-5, "Groundwater Sample Analytical Results: Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32, Summer 2002 through Spring 2007"

- Table 7.1-6, "Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 3 - IR Sites 1 and 32, Spring 2004 through Spring 2007"
- Table 7.1-7, "Groundwater Sample Analytical Results: Organochlorine Pesticides at Operable Unit 3 - IR Sites 1 and 32, Spring 2004 through Spring 2007"
- Table 7.1-8, "Groundwater Sample Analytical Results: Radionuclides at Operable Unit 3 - IR Sites 1 and 32, Summer 2002 through Spring 2007"
- Table 7.1-9, "Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32, Summer 2002 through Spring 2007"
- Table 7.1-10, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 3 - IR Sites 1 and 32, Summer 2002 through Spring 2007"
- Table 7.1-11, "Soil Gas Analytical Results: Volatile Organic Compounds and Fixed Gases at Operable Unit 3 - IR Sites 1 and 32, Spring 2005 through Spring 2007"

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs, even though MCLs are not directly applicable due to the location of this site to the west of Saratoga Street. Analytical results in the tables are also compared to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in **bold** text on the metals tables only.

7.1.4 Discussion of Results

Groundwater samples collected from IR Sites 1 and 32 monitoring wells are not currently analyzed for TPH. Groundwater samples collected in the Summer 2002 sampling event indicated that groundwater concentrations of TPH were low to non-detect for most of the site

wells; the highest TPH concentration found was 490 µg/L for TPH characterized as gasoline in one groundwater sample collected from well M034-A (Table 7.1 3). Common constituents of gasoline, such as benzene, toluene, ethylbenzene and xylenes, are being monitored through the groundwater analysis for volatile organic compounds, discussed below.

Concentrations of various aromatic and chlorinated hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ at IR Sites 1 and 32. The following VOC analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 through Spring 2007 sampling year: **benzene, toluene, chlorobenzene, 1,1-DCE, 1,2-DCA, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCA, trichloroethene (TCE), and vinyl chloride** (Table 7.1-12). The distribution of aromatic and chlorinated hydrocarbons in FWBZ groundwater monitoring wells at IR Sites 1 and 32 is discussed in Section 7.1.4.2. Only trace VOC concentrations were detected in groundwater collected from monitoring wells screened in the SWBZ during current sampling year events..

Groundwater concentrations of SVOCs were low to non-detect for the wells sampled during the Summer 2006 through Spring 2007 sampling events. SVOCs were not detected in SWBZ wells during the current sampling year (Table 7.1-4).

Arsenic was the only dissolved metal detected at concentrations above background values and exceeding MCLs during the Summer 2006 through Spring 2007 sampling year (Table 7.1-12). Total cyanide concentrations were not detected in groundwater collected from wells sampled in both the FWBZ and SWBZ during the current sampling year (Table 7.1-5).

No detectable concentrations of PCBs have been found in groundwater samples collected from IR Sites 1 and 32 wells since PCB sampling was initiated in Spring 2004 (Table 7.1-6).

Heptachlor and heptachlor epoxide organochlorine pesticides were detected at concentrations (estimated values) greater than their respective MCLs in well M028-E during the Spring 2007 sampling event (Table 7.1-7).

The results of the current sampling year's radionuclide analysis are discussed below, followed by the results of an evaluation of the cumulative data set. The following radionuclide values were detected at concentrations exceeding their respective MCLs during the Summer 2006 through Spring 2007 sampling year:

First Water-Bearing Zone

- **Gross Alpha** was measured above the MCL of 15 picocuries per liter (pCi/L) at a concentration of 24.9 pCi/L in groundwater collected from well M026-A in Spring 2007.
- **Gross Beta** was measured above the MCL of 50 pCi/L in two FWBZ wells, at a maximum concentration of 259 pCi/L in groundwater collected from well M026-A in Fall 2006.
- **Total strontium** was measured above the MCL of 8 pCi/L in one FWBZ well, at a concentration of 113 pCi/L in groundwater collected from well M032-A in Spring 2007. This concentration was the only total strontium detection found in groundwater samples collected during the current sampling year.

Second Water-Bearing Zone

- **Gross Beta** was measured above the MCL of 50 pCi/L in all eight SWBZ wells sampled during the current sampling year, at a maximum concentration of 481 (estimated concentration) pCi/L in groundwater collected from well M028-C in Spring 2007. Gross beta values have consistently been present in groundwater collected from the SWBZ wells at concentrations above the MCL of 50 pCi/L.

Other detectable radioactive species identified at Sites 1 and 32 during the current sampling year are shown in Tables 7.1-8 and 7.1-12.

Soil gas results indicate that TCE, PCE, vinyl chloride, toluene, and benzene are present at low concentrations in soil gas at various locations at IR Site 1 (Table 7.1-11). The distribution of VOCs in soil gas at IR Sites 1 and 32 is discussed in Section 7.1.4.2.

7.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 7.1-2. Groundwater flow direction in the FWBZ at IR Sites 1 and 32 is generally towards the north and west at a gradient of approximately 0.003 feet per foot, with strong westward and northward flow components as

groundwater approaches the San Francisco Bay and Oakland Inner Harbor shorelines, respectively. Groundwater monitoring wells along the western and northern shoreline limits of IR Site 1 show moderate to strong tidal influence (Shaw, 2006), as discussed in Section 1.3.

The groundwater flow direction in the SWBZ at IR Sites 1 and 32 is generally towards the northwest at a gradient of approximately 0.002 feet per foot. Water levels in the SWBZ wells at IR Sites 1 and 32 are generally 1 to 4 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient. Vertical gradients are discussed more fully in Section 7.1.4.4.

7.1.4.2 Groundwater and Soil Gas Contaminant Distribution

Analytical results for selected chlorinated and aromatic hydrocarbons in the FWBZ are shown on Figures 7.1-3 and 7.1-4. The highest concentrations of volatile organic constituents are generally found along the western shoreline of the former IR Site 1 landfill, centered on the location of paired FWBZ wells M028-A and M028 E. Well M028-E, screened in the lower portion of the FWBZ in hydraulic fill material, consistently shows the highest groundwater concentrations of both aromatic and chlorinated hydrocarbons (with the exception of TCE, as discussed below) at IR Sites 1 and 32 (Table 7.1-3).

Arsenic has been consistently reported above both its background value and MCL in two wells at IR Site 1: M028-E, and M027-B, along the western shoreline of Alameda Point. These two wells are at somewhat greater depth ("E" and "B" wells) than near-surface "A" wells. The arsenic occurrences may be related to reducing chemical conditions at depth. Such conditions are indicated by the especially high iron (greater than 10,000 µg/L) and manganese, and low oxidation-reduction potential (ORP; Table 7.1-9) at these wells; reducing conditions also generally favor the mobilization of arsenic.

Soil gas results for landfill gas monitoring points reported low concentrations of organic constituents similar to those found in groundwater (e.g., TCE, vinyl chloride, toluene, and benzene), along with PCE (Table 7.1-11). Soil gas concentrations are very low. The distribution of TCE detected in Spring 2007 is shown on Figure 7.1-5.

7.1.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 7.1-12, which lists analytes detected during the current sampling year along with the well location and the value of the maximum detected concentration and respective date collected. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 7.1-12 also lists the historical maximum concentrations (Summer 2002 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those found in previous sampling years.

7.1.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2007 Annual Report:

- Figure 7.1-6a, "Trends in Groundwater Elevations at Operable Unit 3 - IR Sites 1 and 32: Northwest-Oriented FWBZ Wells."
- Figure 7.1-6b, "Trends in Groundwater Elevations at Operable Unit 3 - IR Sites 1 and 32: North-South Oriented FWBZ Wells Near IR Site 32."
- Figure 7.1-6c, "Trends in Groundwater Elevations at Operable Unit 3 - IR Sites 1 and 32: Clustered Wells Within Zone of Tidal Influence at IR Site 1."
- Figure 7.1-6d, "Trends in Groundwater Elevations at Operable Unit 3 - IR Sites 1 and 32: Clustered Wells Outside Zone of Tidal Influence at IR Site 1."
- Figure 7.1-6e, "Trends in Groundwater Elevations at Operable Unit 3 - IR Sites 1 and 32: Clustered Wells Outside Zone of Tidal Influence at IR Site 1."

The following observations can be made from viewing the hydrographs:

- Groundwater elevations for wells outside the zone of tidal influence at IR Sites 1 and 32 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. The similarity in well behavior, even for widely spaced monitoring wells, is especially apparent on Figures 7.1-6a and 7.1 6b.
- Hydrographs for IR Sites 1 and 32 wells indicate slight overall increases in groundwater elevations over time, i.e., peak seasonal elevations for most wells have shown a tendency to increase from 2002 to 2006, with a slight decline in 2007.
- Hydrographs for clustered wells located within the zone of tidal influence, as shown on Figure 7.1-6c, indicate reversals in the vertical gradient between co-located FWBZ and SWBZ wells; i.e., groundwater elevations for the FWBZ wells are sometimes higher and at other times lower than the corresponding SWBZ

wells. These reversals in vertical gradients may be due to tidal fluctuations in the FWBZ wells, but additional information is required to determine if this is the case.

- Hydrographs for clustered wells from outside the zone of tidal influence, as shown on Figures 7.1-6d and 7.1-6e, consistently indicate a downward vertical gradient between co-located FWBZ and SWBZ wells; i.e., groundwater elevations for the FWBZ wells are higher than the corresponding SWBZ wells. A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is missing.

7.1.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at IR Sites 1 and 32 since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 7.1-7 and 7.1-8.

Groundwater concentrations of both aromatic (benzene, toluene, 1,4-DCBZ) and chlorinated (TCE, cis-1,2-DCE, 1,1-DCA, vinyl chloride) hydrocarbons show significant up-and-down fluctuations (possibly associated with seasonal groundwater changes). Specifically, well M028-A, the well with the highest reported concentrations for both aromatic and chlorinated hydrocarbons, had significantly higher concentrations of both groups of compounds during the Spring 2007 event than for the last two sampling years. Other wells consistently show low to non-detect concentrations of organic constituents, and the same constituents tend to show up in the same set of wells from one sampling event to another.

7.1.4.6 Trends in Radionuclides

In the Spring 2004 Annual Report, Shaw presented an evaluation of the previously collected radiological data entitled *Evaluation of Eight Rounds of Alameda NAS Radiological Groundwater Analyses Obtained from June 2002 through April 2004* (Shaw, 2004, Appendix D). The evaluation was presented in a Memorandum included as Appendix D in the Spring 2004 Annual Report. In the Memorandum, Shaw concluded that no gross alpha anomalies were present in any of the samples collected during the first eight rounds of sampling for radiological analysis at Sites 1 and 2 (Shaw, 2004). In general, the past three years (2004–2007) sampling

results tend to support that conclusion, since gross alpha concentrations above the MCL are uncommon and do not appear consistently in any one well at Sites 1 and 2.

Gross beta activity at Site 1 was recorded for almost every well at the site, and concentrations above the MCL were not uncommon in the Summer 2006 to Spring 2007 groundwater samples. Shaw concluded in the Spring 2004 Annual Report that there is a strong positive correlation between total potassium concentrations and gross beta activity at both Sites 1 and 2. This suggests that naturally-occurring potassium-40 may be a significant contributor to the gross beta activity observed in the groundwater (Shaw, 2004). The current sampling year's data tend to support this interpretation (Tables 7.1-5 and 7.1-8).

Radium 226 and 228 were not detected above the MCL (5 pCi/L for the sum of the isotopes) during the Summer 2006 to Spring 2007 sampling year. In previous sampling events, the sum of Ra-226 and Ra-228 at location M028-C exceeded the MCL in four of the eight samples analyzed for both isotopes.

Based on an evaluation of the U-234/U-238 ratios at the site, Shaw concluded in the Spring 2004 Annual Report that the source of the detected uranium isotopes at Sites 1 and 2 is natural rather than due to depleted or enriched materials. The current sampling year's data tend to support this interpretation.

7.1.5 Conclusions and Recommendations

Groundwater samples from IR Sites 1 and 32 contain levels of a variety of analytes exceeding MCLs, including aromatic and chlorinated VOCs, metals, and radionuclides. The highest concentrations are generally found in the FWBZ and along the western shoreline of the former IR Site 1 landfill.

The soil gas wells indicate the presence of organic vapor and organic biodegradation components in the vapor stream. Over five rounds of soil gas sampling conducted at IR Site 1 indicate similar ranges of organic vapor concentrations with a few sporadic spikes in detection. Based on the Work Plan (Shaw 2004) this determination is adequate to recommend changing the sampling frequency for TO 15 (VOC) analyses to semiannual or annual from the current quarterly

schedule at IR Site 1. The analyses of TO 3 (Fixed Gases) will continue unchanged on the annual schedule at IR Site 1.

The wells at IR Site 32 are being measured for water levels on a routine (quarterly) basis and are included in Table 7.1-1. Additional sampling at these wells has been conducted separately through a supplemental investigation under the CERCLA program.

Based on the evaluation of data collected in 2006-2007, no changes in the groundwater sampling frequency or analytical parameters are recommended at IR Site 1/32.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 7.1-1
Groundwater Monitoring Summary, Operable Unit 3- IR Sites 1 and 32, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds		Natural Attenuation Parameters						Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FiQed Gases (ASTM D1946)
Groundwater Monitoring Program Wells																									
First	M001-A	Fill	4 - 14					A	A																
	M001-E	Fill	9.5 - 19.5	S	A			A	A							S	S	S	S	S	S	S	S		
	M002-A	Fill	4 - 10	S	A	A	A	A	A							S	S	S	S	S	S	S	S		
	M003-A	Fill	4 - 14	S	A	A	A	A	A							S	S	S	S	S	S	S	S		
	M004-A	Fill	3.5 - 13.5							A	A	A	A	A	A										
	M005-A	Fill	2.9 - 12.9	S												S	S	S	S	S	S	S	S		
	M006-A	Fill	4 - 14	S	A			A	A							S	S	S	S	S	S	S	S		
	M007-A	Fill	3.5 - 13.5	S	A			A	A							S	S	S	S	S	S	S	S		
	M025-A	Fill	4 - 14	S	A	A	A	A	A							S	S	S	S	S	S	S	S		
	M026-A	Fill	3.5 - 13.5	S	A			A	A							S	S	S	S	S	S	S	S		
	M027-A	Fill	3.5 - 13.5	S	A	A	A	A	A	A	A	A	A	A	A	S	S	S	S	S	S	S	S		
	M028-A	Fill	4 - 14			A		A								S	S	S	S	S	S	S	S		
	M028-E	Fill	11 - 21	S	A	A	A	A	A	A	A	A	A	A	A	S	S	S	S	S	S	S	S		
	M029-A	Fill	4 - 14	S	A			A	A							S	S	S	S	S	S	S	S		
	M030-A	Fill	2.5 - 12.5	S	A	A	A	A	A							S	S	S	S	S	S	S	S		
	M031-A	Fill	2.5 - 12.5	S	A			A	A							S	S	S	S	S	S	S	S		
	M032-A	Fill	2.5 - 12.5	S	A			A	A							S	S	S	S	S	S	S	S		
	M033-A	Fill	4.25 - 12.5	S	A			A	A	A	A	A	A	A	A	S	S	S	S	S	S	S	S		
	M034-A	Fill	4.25 - 12.5	S	A			A	A							S	S	S	S	S	S	S	S		
	M035-A	Fill	4 - 14	S	A			A	A							S	S	S	S	S	S	S	S		
Second	M001-B	Merritt	62 - 72	A				A								S	S	S	S	S	S	S	S		
	M003-B	Merritt	33 - 43	A				A		A	A	A	A	A	A	S	S	S	S	S	S	S	S		
	M025-C	BSU	70 - 79.5	A				A								S	S	S	S	S	S	S	S		
	M027-B	Merritt	56 - 66	A				A								S	S	S	S	S	S	S	S		
	M027-C	BSU-USA	80 - 90	A				A								S	S	S	S	S	S	S	S		
Second	M028-C	USA	80 - 90	A				A		A	A	A	A	A	A	S	S	S	S	S	S	S	S		
	M030-C	USA	76.5 - 86.5	A				A								S	S	S	S	S	S	S	S		
	M031-C	Merritt-USA	77.5 - 87.5	A				A								S	S	S	S	S	S	S	S		

Table 7.1-1
Groundwater Monitoring Summary, Operable Unit 3- IR Sites 1 and 32, Summer 2006 through Spring 2007

				Organic Compounds				Inorganic Compounds		Natural Attenuation Parameters						Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FiQed Gases (ASTM D1946)
Vadose	MG1-01-S	Landfill	2 - 4																					Q	A
	MG1-01-D	Landfill	5 - 7																					Q	A
	MG1-02-S	Landfill	1 - 3																					Q	A
	MG1-02-D	Landfill	4 - 6																					Q	A
	MG1-03-S	Landfill	0 - 1																					Q	A
	MG1-03-D	Landfill	2 - 4																					Q	A
	MG1-04-S	Landfill	0 - 2																					Q	A
	MG1-04-D	Landfill	2.5 - 4.5																					Q	A
	MG1-05-S	Landfill	0.4 - 2.4																					Q	A
	MG1-05-D	Landfill	3 - 5																					Q	A
Non-Program Wells, Water Level Only																									
First	M002-E	Fill	10 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M003-E	Fill	11.25 - 21.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M026-E	Fill-BSU	11 - 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-E	Fill	12 - 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M029-E	Fill	10 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M031-E	Fill	8 - 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M030-E	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Second	M025-E	Fill-BSU	17 - 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007
A Well sampled for this analyte group ANNUALLY; Spring 2007
Q Well sampled for this analyte group QUARTERLY; Summer 2006, Fall 2006, Winter 2006, and Spring 2007

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compound
PCBs - Polychlorinated Biphenyls

GER - Gamma Emitting Radionuclides
(8260B) - U.S. Environmental Protection Agency analytical method
TDS - Total Dissolved Solids
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M001-A	9.5	9.02 *	03/12/07	4.01	5.01
		9.5	9.02 *	12/13/06	NM	NC
		9.5	9.02 *	09/27/06	4.86	4.16
		9.5	9.02 *	07/11/06	4.65	4.37
		9.5	9.02 *	04/17/06	2.59	6.43
		9.5	9.02 *	08/22/05	4.67	4.35
		9.5	9.02 *	03/01/05	2.82	6.20
		9.5	9.02 *	11/10/04	4.35	4.67
		9.5	9.02 *	06/14/04	4.90	4.12
		9.5	9.02 *	03/02/04	2.86	6.16
		9.5	9.02 *	12/03/03	4.56	4.46
		9.5	9.02 *	09/15/03	4.96	4.06
		9.5	9.02 *	06/24/03	4.63	4.39
		9.5	9.02 *	04/08/03	4.31	4.71
		9.5	9.02 *	12/10/02	4.64	4.38
		9.5	9.02 *	09/13/02	5.50	3.52
		9.5	9.02 *	06/27/02	7.90	1.12
First	M001-E	10.2	9.74 *	03/12/07	5.65	4.09
		10.2	9.74 *	12/13/06	NM	NC
		10.2	9.74 *	09/27/06	5.66	4.08
		10.2	9.74 *	07/11/06	5.55	4.19
		10.2	9.74 *	04/17/06	3.95	5.79
		10.2	9.74 *	08/22/05	5.45	4.29
		10.2	9.74 *	03/01/05	3.95	5.79
		10.2	9.74 *	11/10/04	5.48	4.26
		10.2	9.74 *	06/14/04	6.53	3.21
		10.2	9.74 *	03/02/04	3.97	5.77
		10.2	9.74 *	12/03/03	6.15	3.59
		10.2	9.74 *	09/15/03	6.43	3.31
		10.2	9.74 *	06/24/03	5.82	3.92
		10.2	9.74 *	04/08/03	5.89	3.85
		10.2	9.74 *	12/10/02	5.92	3.82
		10.2	9.74 *	09/13/02	5.87	3.87
		10.2	9.74 *	06/27/02	5.73	4.01
First	M002-A	11.2	10.94 *	03/12/07	6.86	4.08
		11.2	10.94 *	12/13/06	7.62	3.32
		11.2	10.94 *	09/27/06	6.65	4.29
		11.2	10.94 *	07/11/06	6.46	4.48
		11.2	10.94 *	04/17/06	5.93	5.01
		11.2	10.94 *	08/22/05	6.56	4.38
		11.2	10.94 *	03/01/05	6.08	4.86
		11.2	10.94 *	11/10/04	6.01	4.93
		11.2	10.94 *	06/14/04	6.94	4.00
		11.2	10.94 *	03/02/04	5.28	5.66
		11.2	10.94 *	12/03/03	5.78	5.16
		11.2	10.94 *	09/15/03	6.88	4.06
		11.2	10.94 *	06/24/03	6.89	4.05

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M002-A	11.2	10.94 *	04/08/03	6.88	4.06
		11.2	10.94 *	12/10/02	6.00	4.94
		11.2	10.94 *	09/13/02	6.72	4.22
		11.2	10.94 *	06/26/02	6.51	4.43
First	M002-E ‡	11.4	10.79 **	03/13/07	10.20	0.59
		11.4	10.79 **	12/13/06	8.92	1.87
		11.4	10.79 **	09/27/06	7.23	3.56
		11.4	10.79 **	07/11/06	9.41	1.38
		11.4	10.79 **	04/17/06	10.02	0.77
		11.4	10.79 **	08/22/05	10.35	0.44
		11.4	10.79 **	03/01/05	9.32	1.47
		11.4	10.79 **	11/10/04	6.65	4.14
		11.4	10.79 **	06/14/04	6.58	4.21
		11.4	10.79 **	03/02/04	4.71	6.08
		11.4	10.79 **	12/03/03	4.81	5.98
		11.4	10.79 **	09/15/03	8.41	2.38
First	M003-A	11.3	10.81 *	03/06/07	4.50	6.31
		11.3	10.81 *	12/12/06	NM	NC
		11.3	10.81 *	09/25/06	6.43	4.38
		11.3	10.81 *	07/11/06	5.81	5.00
		11.3	10.81 *	04/11/06	3.24	7.57
		11.3	10.81 *	08/22/05	6.24	4.57
		11.3	10.81 *	03/01/05	3.61	7.20
		11.3	10.81 *	11/10/04	5.92	4.89
		11.3	10.81 *	06/14/04	6.02	4.79
		11.3	10.81 *	03/02/04	3.80	7.01
		11.3	10.81 *	12/03/03	5.99	4.82
		11.3	10.81 *	09/15/03	6.50	4.31
		11.3	10.81 *	06/24/03	5.73	5.08
		11.3	10.81 *	04/08/03	4.97	5.84
		11.3	10.81 *	12/10/02	6.19	4.62
		11.3	10.81 *	09/13/02	6.59	4.22
		11.3	10.81 *	06/26/02	6.14	4.67
First	M003-E ‡	11.3	11.00 **	03/06/07	4.65	6.35
		11.3	11.00 **	12/12/06	6.51	4.49
		11.3	11.00 **	09/25/06	6.55	4.45
		11.3	11.00 **	07/11/06	9.00	2.00
		11.3	11.00 **	04/17/06	3.36	7.64
		11.3	11.00 **	08/22/05	6.36	4.64
		11.3	11.00 **	03/01/05	3.79	7.21
		11.3	11.00 **	11/10/04	6.01	4.99
		11.3	11.00 **	06/14/04	6.25	4.75
		11.3	11.00 **	03/02/04	3.91	7.09
		11.3	11.00 **	12/03/03	6.12	4.88
		11.3	11.00 **	09/15/03	6.65	4.35
First	M004-A	10.6	10.27 *	03/06/07	3.49	6.78
		10.6	10.27 *	12/12/06	5.30	4.97

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M004-A	10.6	10.27 *	09/25/06	6.09	4.18
		10.6	10.27 *	07/11/06	5.67	4.60
		10.6	10.27 *	04/11/06	2.36	7.91
		10.6	10.27 *	08/22/05	5.93	4.34
		10.6	10.27 *	03/01/05	2.63	7.64
		10.6	10.27 *	11/10/04	5.55	4.72
		10.6	10.27 *	06/14/04	5.39	4.88
		10.6	10.27 *	03/02/04	2.46	7.81
		10.6	10.27 *	12/03/03	5.88	4.39
		10.6	10.27 *	09/15/03	6.19	4.08
		10.6	10.27 *	06/24/03	5.63	4.64
		10.6	10.27 *	04/08/03	NM	NC
		10.6	10.27 *	12/10/02	6.00	4.27
		10.6	10.27 *	09/13/02	6.35	3.92
First	M005-A	10.9	10.57	03/06/07	3.27	7.30
		10.9	10.57	12/12/06	NM	NC
		10.9	10.57	09/25/06	5.59	4.98
		10.9	10.57	07/11/06	5.12	5.45
		10.9	10.57	04/11/06	1.88	8.69
		10.9	10.57	08/22/05	5.40	5.17
		10.9	10.57	03/01/05	2.01	8.56
		10.9	10.57	11/10/04	5.06	5.51
		10.9	10.57	06/14/04	4.30	6.27
		10.9	10.57	03/02/04	2.11	8.46
		10.9	10.57	12/03/03	NM	NC
		10.9	10.57	09/15/03	NM	NC
First	M006-A	10.5	10.29 *	03/06/07	2.55	7.74
		10.5	10.29 *	12/12/06	NM	NC
		10.5	10.29 *	09/25/06	4.84	5.45
		10.5	10.29 *	07/11/06	3.82	6.47
		10.5	10.29 *	04/11/06	0.76	9.53
		10.5	10.29 *	08/22/05	4.55	5.74
		10.5	10.29 *	03/01/05	0.95	9.34
		10.5	10.29 *	11/10/04	4.23	6.06
		10.5	10.29 *	06/14/04	4.30	5.99
		10.5	10.29 *	03/02/04	1.09	9.20
		10.5	10.29 *	12/03/03	4.57	5.72
		10.5	10.29 *	09/15/03	4.91	5.38
		10.5	10.29 *	06/24/03	3.81	6.48
		10.5	10.29 *	04/08/03	2.99	7.30
		10.5	10.29 *	12/10/02	4.78	5.51
		10.5	10.29 *	09/13/02	4.96	5.33
		10.5	10.29 *	06/26/02	4.30	5.99

Table 7.1-2
Summary of Groundwater Level Measurements at
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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M007-A	8.6	8.22 *	03/06/07	0.30	7.92
		8.6	8.22 *	12/12/06	NM	NC
		8.6	8.22 *	09/25/06	3.91	4.31
		8.6	8.22 *	07/11/06	3.49	4.73
		8.6	8.22 *	04/11/06	NM	NC
		8.6	8.22 *	08/22/05	2.45	5.77
		8.6	8.22 *	03/01/05	0.00†	8.22
		8.6	8.22 *	11/10/04	1.43	6.79
		8.6	8.22 *	06/14/04	2.29	5.93
		8.6	8.22 *	03/02/04	0.00†	8.22
		8.6	8.22 *	12/03/03	2.12	6.10
		8.6	8.22 *	09/15/03	2.80	5.42
		8.6	8.22 *	06/24/03	2.05	6.17
		8.6	8.22 *	04/08/03	1.03	7.19
		8.6	8.22 *	12/10/02	2.30	5.92
		8.6	8.22 *	09/13/02	2.87	5.35
		8.6	8.22 *	06/26/02	2.35	5.87
First	M025-A	9.0	8.51 *	03/12/07	4.60	3.91
		9.0	8.51 *	12/13/06	4.25	4.26
		9.0	8.51 *	09/27/06	4.45	4.06
		9.0	8.51 *	07/11/06	4.62	3.89
		9.0	8.51 *	04/17/06	3.84	4.67
		9.0	8.51 *	08/22/05	4.80	3.71
		9.0	8.51 *	03/01/05	4.00	4.51
		9.0	8.51 *	11/10/04	3.96	4.55
		9.0	8.51 *	06/14/04	4.68	3.83
		9.0	8.51 *	03/02/04	3.32	5.19
		9.0	8.51 *	12/03/03	3.63	4.88
		9.0	8.51 *	09/15/03	4.86	3.65
		9.0	8.51 *	06/24/03	4.71	3.80
		9.0	8.51 *	04/08/03	5.26	3.25
		9.0	8.51 *	12/10/02	4.04	4.47
		9.0	8.51 *	09/13/02	5.03	3.48
		9.0	8.51 *	07/01/02	5.58	2.93
First	M026-A	8.7	8.61 *	03/12/07	5.55	3.06
		8.7	8.61 *	12/13/06	5.06	3.55
		8.7	8.61 *	09/27/06	4.88	3.73
		8.7	8.61 *	07/11/06	5.45	3.16
		8.7	8.61 *	04/17/06	5.32	3.29
		8.7	8.61 *	08/22/05	5.92	2.69
		8.7	8.61 *	03/01/05	5.15	3.46
		8.7	8.61 *	11/10/04	2.61	6.00
		8.7	8.61 *	06/14/04	4.51	4.10
		8.7	8.61 *	03/02/04	3.15	5.46
		8.7	8.61 *	12/03/03	3.08	5.53
		8.7	8.61 *	09/15/03	5.13	3.48
		8.7	8.61 *	06/24/03	4.82	3.79

Table 7.1-2
Summary of Groundwater Level Measurements at
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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M026-A	8.7	8.61 *	04/08/03	5.68	2.93
		8.7	8.61 *	12/10/02	4.21	4.40
		8.7	8.61 *	09/13/02	5.06	3.55
		8.7	8.61 *	07/12/02	5.55	3.06
First	M026-E	8.5	8.65 *	03/12/07	5.27	3.38
		8.5	8.65 *	12/13/06	NM	NC
		8.5	8.65 *	09/27/06	4.75	3.90
		8.5	8.65 *	07/11/06	5.21	3.44
		8.5	8.65 *	04/17/06	4.99	3.66
		8.5	8.65 *	08/22/05	5.38	3.27
		8.5	8.65 *	03/01/05	3.85	4.80
		8.5	8.65 *	11/10/04	3.31	5.34
		8.5	8.65 *	06/14/04	4.54	4.11
		8.5	8.65 *	03/02/04	3.39	5.26
		8.5	8.65 *	12/03/03	3.30	5.35
		8.5	8.65 *	09/15/03	5.35	3.30
		8.5	8.65 *	06/24/03	4.78	3.87
		8.5	8.65 *	04/08/03	5.49	3.16
		8.5	8.65 *	12/10/02	4.20	4.45
		8.5	8.65 *	09/13/02	5.17	3.48
		8.5	8.65 *	07/01/02	5.40	3.25
First	M027-A	9.7	9.38 *	03/12/07	4.55	4.83
		9.7	9.38 *	12/13/06	NM	NC
		9.7	9.38 *	09/27/06	5.10	4.28
		9.7	9.38 *	07/11/06	5.20	4.18
		9.7	9.38 *	04/17/06	3.43	5.95
		9.7	9.38 *	08/22/05	4.90	4.48
		9.7	9.38 *	03/01/05	3.50	5.88
		9.7	9.38 *	11/10/04	4.58	4.80
		9.7	9.38 *	06/14/04	5.35	4.03
		9.7	9.38 *	03/02/04	3.66	5.72
		9.7	9.38 *	12/03/03	4.79	4.59
		9.7	9.38 *	09/15/03	6.22	3.16
		9.7	9.38 *	06/24/03	5.24	4.14
		9.7	9.38 *	04/08/03	4.95	4.43
		9.7	9.38 *	12/10/02	4.76	4.62
		9.7	9.38 *	09/13/02	5.18	4.20
		9.7	9.38 *	06/28/02	5.16	4.22
First	M027-E	10.0	9.41	03/12/07	4.50	4.91
		10.0	9.41	12/13/06	NM	NC
		10.0	9.41	09/27/06	4.88	4.53
		10.0	9.41	07/11/06	4.62	4.79
		10.0	9.41	04/17/06	3.60	5.81
		10.0	9.41	08/22/05	4.64	4.77
		10.0	9.41	03/01/05	3.46	5.95
		10.0	9.41	11/10/04	4.29	5.12
		10.0	9.41	06/14/04	5.13	4.28

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M027-E	10.0	9.41	03/02/04	3.00	6.41
		10.0	9.41	12/03/03	4.53	4.88
		10.0	9.41	09/15/03	5.07	4.34
		10.0	9.41	09/13/02	4.95	4.46
First	M028-A	10.8	10.67 *	03/12/07	5.75	4.92
		10.8	10.67 *	12/13/06	NM	NC
		10.8	10.67 *	09/27/06	6.41	4.26
		10.8	10.67 *	07/11/06	6.25	4.42
		10.8	10.67 *	04/17/06	4.38	6.29
		10.8	10.67 *	08/22/05	6.40	4.27
		10.8	10.67 *	03/01/05	4.61	6.06
		10.8	10.67 *	11/10/04	5.91	4.76
		10.8	10.67 *	06/14/04	6.53	4.14
		10.8	10.67 *	03/02/04	5.01	5.66
		10.8	10.67 *	12/03/03	6.21	4.46
		10.8	10.67 *	09/15/03	6.54	4.13
		10.8	10.67 *	06/24/03	6.40	4.27
		10.8	10.67 *	04/08/03	6.16	4.51
		10.8	10.67 *	12/27/02	4.61§	6.19
		10.8	10.67 *	09/13/02	6.58	4.09
		10.8	10.67 *	07/01/02	6.68	3.99
First	M028-E	10.8	10.42	03/12/07	5.51	4.91
		10.8	10.42	12/13/06	5.64	4.78
		10.8	10.42	09/27/06	6.12	4.30
		10.8	10.42	07/11/06	6.01	4.41
		10.8	10.42	04/17/06	4.29	6.13
		10.8	10.42	08/22/05	6.10	4.32
		10.8	10.42	03/01/05	4.42	6.00
		10.8	10.42	11/10/04	5.63	4.79
		10.8	10.42	06/14/04	6.25	4.17
		10.8	10.42	03/02/04	4.61	5.81
		10.8	10.42	12/03/03	6.98	3.44
		10.8	10.42	09/15/03	6.22	4.20
		10.8	10.42	06/24/03	6.04	4.38
		10.8	10.42	04/08/03	5.83	4.59
		10.8	10.42	12/10/02	6.03	4.39
		10.8	10.42	09/13/02	6.27	4.15
First	M029-A	9.8	9.46 *	03/12/07	5.00	4.46
		9.8	9.46 *	12/13/06	NM	NC
		9.8	9.46 *	09/27/06	5.43	4.03
		9.8	9.46 *	07/11/06	5.49	3.97
		9.8	9.46 *	04/17/06	3.75	5.71
		9.8	9.46 *	08/22/05	5.46	4.00
		9.8	9.46 *	03/01/05	4.00	5.46
		9.8	9.46 *	11/10/04	4.79	4.67
		9.8	9.46 *	06/14/04	4.74	4.72
		9.8	9.46 *	03/02/04	3.79	5.67

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M029-A	9.8	9.46 *	12/03/03	5.28	4.18
		9.8	9.46 *	09/15/03	5.70	3.76
		9.8	9.46 *	06/24/03	5.67	3.79
		9.8	9.46 *	04/08/03	5.41	4.05
		9.8	9.46 *	12/10/02	5.23	4.23
		9.8	9.46 *	09/13/02	5.70	3.76
		9.8	9.46 *	06/27/02	5.51	3.95
First	M029-E	9.1	8.62 *	03/12/07	3.89	4.73
		9.1	8.62 *	12/13/06	3.55	5.07
		9.1	8.62 *	09/27/06	4.59	4.03
		9.1	8.62 *	07/11/06	4.56	4.06
		9.1	8.62 *	04/17/06	2.60	6.02
		9.1	8.62 *	08/22/05	4.25	4.37
		9.1	8.62 *	03/01/05	2.80	5.82
		9.1	8.62 *	11/10/04	4.01	4.61
		9.1	8.62 *	06/14/04	4.72	3.90
		9.1	8.62 *	03/02/04	2.76	5.86
		9.1	8.62 *	12/03/03	4.43	4.19
		9.1	8.62 *	09/15/03	4.72	3.90
		9.1	8.62 *	06/24/03	4.68	3.94
		9.1	8.62 *	04/08/03	4.24	4.38
		9.1	8.62 *	12/10/02	4.41	4.21
		9.1	8.62 *	09/13/02	4.80	3.82
		9.1	8.62 *	06/27/02	4.67	3.95
First	M030-A	10.3	10.08 *	03/06/07	3.50	6.58
		10.3	10.08 *	12/12/06	2.25	7.83
		10.3	10.08 *	09/25/06	5.51	4.57
		10.3	10.08 *	07/11/06	4.95	5.13
		10.3	10.08 *	04/17/06	1.74	8.34
		10.3	10.08 *	08/22/05	5.25	4.83
		10.3	10.08 *	03/01/05	2.23	7.85
		10.3	10.08 *	11/10/04	4.56	5.52
		10.3	10.08 *	06/14/04	5.06	5.02
		10.3	10.08 *	03/02/04	2.42	7.66
		10.3	10.08 *	12/03/03	4.54	5.54
		10.3	10.08 *	09/15/03	5.55	4.53
		10.3	10.08 *	06/24/03	4.81	5.27
		10.3	10.08 *	04/08/03	3.79	6.29
		10.3	10.08 *	12/10/02	5.04	5.04
		10.3	10.08 *	09/13/02	6.62	3.46
		10.3	10.08 *	06/27/02	6.12	3.96

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M030-E ‡	10.6	9.98	03/06/07	3.12	6.86
		10.6	9.98	12/12/06	NM	NC
		10.6	9.98	09/25/06	5.41	4.57
		10.6	9.98	07/11/06	4.71	5.27
		10.6	9.98	04/17/06	1.75	8.23
		10.6	9.98	08/22/05	5.16	4.82
		10.6	9.98	03/01/05	2.20	7.78
		10.6	9.98	11/10/04	4.52	5.46
		10.6	9.98	06/14/04	5.01	4.97
		10.6	9.98	03/02/04	2.39	7.59
		10.6	9.98	12/03/03	4.52	5.46
		10.6	9.98	09/15/03	5.46	4.52
		10.6	9.98	09/13/02	5.59	4.39
First	M031-A	8.8	8.47 *	03/06/07	1.41	7.06
		8.8	8.47 *	12/12/06	1.49	6.98
		8.8	8.47 *	09/25/06	4.07	4.40
		8.8	8.47 *	07/11/06	3.65	4.82
		8.8	8.47 *	04/11/06	0.35	8.12
		8.8	8.47 *	08/22/05	3.85	4.62
		8.8	8.47 *	03/01/05	0.45	8.02
		8.8	8.47 *	11/10/04	2.90	5.57
		8.8	8.47 *	06/14/04	3.80	4.67
		8.8	8.47 *	03/02/04	0.46	8.01
		8.8	8.47 *	12/03/03	NM	NC
		8.8	8.47 *	09/15/03	4.13	4.34
		8.8	8.47 *	06/24/03	3.57	4.90
		8.8	8.47 *	04/08/03	2.28	6.19
		8.8	8.47 *	09/13/02	4.16	4.31
		8.8	8.47 *	12/10/02	3.54	4.93
		8.8	8.47 *	06/28/02	3.79	4.68
First	M031-E	8.9	8.51	04/11/06	0.25	8.26
		8.9	8.51	08/22/05	3.89	4.62
		8.9	8.51	03/01/05	0.50	8.01
		8.9	8.51	11/10/04	2.88	5.63
		8.9	8.51	06/14/04	3.81	4.70
		8.9	8.51	03/02/04	0.48	8.03
		8.9	8.51	12/03/03	3.24	5.27
		8.9	8.51	09/15/03	4.14	4.37
First	M032-A	10.2	9.84 *	03/06/07	2.50	7.34
		10.2	9.84 *	12/12/06	3.97	5.87
		10.2	9.84 *	09/25/06	4.59	5.25
		10.2	9.84 *	07/11/06	4.11	5.73
		10.2	9.84 *	04/11/06	0.95	8.89
		10.2	9.84 *	08/22/05	4.35	5.49
		10.2	9.84 *	03/01/05	1.20	8.64
		10.2	9.84 *	11/10/04	4.11	5.73
		10.2	9.84 *	06/14/04	4.23	5.61
		10.2	9.84 *	03/02/04	1.37	8.47

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M032-A	10.2	9.84 *	12/03/03	4.31	5.53
		10.2	9.84 *	09/15/03	4.62	5.22
		10.2	9.84 *	06/24/03	3.93	5.91
		10.2	9.84 *	04/08/03	3.26	6.58
		10.2	9.84 *	12/10/02	4.56	5.28
		10.2	9.84 *	09/13/02	4.70	5.14
		10.2	9.84 *	06/26/02	4.20	5.64
First	M033-A	10.4	10.14 *	03/06/07	4.48	5.66
		10.4	10.14 *	12/12/06	5.15	4.99
		10.4	10.14 *	09/25/06	5.84	4.30
		10.4	10.14 *	07/11/06	5.54	4.60
		10.4	10.14 *	04/11/06	3.45	6.69
		10.4	10.14 *	08/22/05	5.73	4.41
		10.4	10.14 *	03/01/05	3.65	6.49
		10.4	10.14 *	11/10/04	5.31	4.83
		10.4	10.14 *	06/14/04	5.78	4.36
		10.4	10.14 *	03/02/04	3.72	6.42
		10.4	10.14 *	12/03/03	5.60	4.54
		10.4	10.14 *	09/15/03	5.93	4.21
		10.4	10.14 *	06/24/03	5.60	4.54
		10.4	10.14 *	04/08/03	5.05	5.09
		10.4	10.14 *	12/10/02	5.67	4.47
		10.4	10.14 *	09/13/02	6.03	4.11
		10.4	10.14 *	06/28/02	5.78	4.36
First	M034-A	9.1	8.87 *	03/06/07	2.94	5.93
		9.1	8.87 *	12/12/06	3.39	5.48
		9.1	8.87 *	09/25/06	4.51	4.36
		9.1	8.87 *	07/11/06	4.17	4.70
		9.1	8.87 *	04/11/06	1.84	7.03
		9.1	8.87 *	08/22/05	3.40	5.47
		9.1	8.87 *	03/01/05	2.00	6.87
		9.1	8.87 *	11/10/04	3.88	4.99
		9.1	8.87 *	06/14/04	4.39	4.48
		9.1	8.87 *	03/02/04	2.07	6.80
		9.1	8.87 *	12/03/03	4.16	4.71
		9.1	8.87 *	09/15/03	4.56	4.31
		9.1	8.87 *	06/24/03	4.13	4.74
		9.1	8.87 *	04/08/03	3.62	5.25
		9.1	8.87 *	12/10/02	4.32	4.55
		9.1	8.87 *	09/13/02	4.63	4.24
		9.1	8.87 *	06/28/02	4.39	4.48

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M035-A	10.8	10.58 *	03/06/07	5.00	5.58
		10.8	10.58 *	12/12/06	NM	NC
		10.8	10.58 *	09/25/06	6.22	4.36
		10.8	10.58 *	07/11/06	6.09	4.49
		10.8	10.58 *	04/11/06	3.96	6.62
		10.8	10.58 *	08/22/05	6.06	4.52
		10.8	10.58 *	03/01/05	4.15	6.43
		10.8	10.58 *	11/10/04	5.73	4.85
		10.8	10.58 *	06/14/04	6.35	4.23
		10.8	10.58 *	03/02/04	4.20	6.38
		10.8	10.58 *	12/03/03	6.04	4.54
		10.8	10.58 *	09/15/03	5.75	4.83
		10.8	10.58 *	06/24/03	6.17	4.41
		10.8	10.58 *	04/08/03	5.65	4.93
		10.8	10.58 *	12/30/02	4.12§	6.46
		10.8	10.58 *	09/13/02	6.38	4.20
		10.8	10.58 *	06/28/02	6.23	4.35
Second	M001-B	10.0	9.57 *	03/12/07	7.75	1.82
		10.0	9.57 *	03/06/07	8.37	1.20
		10.0	9.57 *	12/12/06	6.51	3.06
		10.0	9.57 *	09/27/06	4.86	4.71
		10.0	9.57 *	09/25/06	7.71	1.86
		10.0	9.57 *	07/11/06	7.52	2.05
		10.0	9.57 *	04/17/06	7.62	1.95
		10.0	9.57 *	04/11/06	6.95	2.62
		10.0	9.57 *	08/22/05	7.82	1.75
		10.0	9.57 *	03/01/05	6.94	2.63
		10.0	9.57 *	11/10/04	4.50	5.07
		10.0	9.57 *	06/14/04	5.88	3.69
		10.0	9.57 *	03/02/04	4.14	5.43
		10.0	9.57 *	12/03/03	4.12	5.45
		10.0	9.57 *	09/15/03	6.47	3.10
		10.0	9.57 *	06/24/03	6.13	3.44
		10.0	9.57 *	04/08/03	7.68	1.89
		10.0	9.57 *	12/10/02	5.54	4.03
		10.0	9.57 *	09/13/02	2.35	7.22
		10.0	9.57 *	07/02/02	6.18	3.39
Second	M003-B	11.2	11.23 *	04/11/06	6.95	4.28
		11.2	11.23 *	08/22/05	8.86	2.37
		11.2	11.23 *	03/01/05	6.95	4.28
		11.2	11.23 *	11/10/04	7.33	3.90
		11.2	11.23 *	06/14/04	7.30	3.93
		11.2	11.23 *	03/02/04	5.75	5.48
		11.2	11.23 *	12/03/03	6.09	5.14
		11.2	11.23 *	09/15/03	7.62	3.61
		11.2	11.23 *	06/24/03	7.38	3.85
		11.2	11.23 *	04/08/03	7.98	3.25

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M003-B	11.2	11.23 *	12/10/02	7.11	4.12
		11.2	11.23 *	09/13/02	6.95	4.28
		11.2	11.23 *	07/01/02	8.81	2.42
Second	M025-C	8.4	7.97 *	03/12/07	3.60	4.37
		8.4	7.97 *	12/13/06	3.59	4.38
		8.4	7.97 *	09/27/06	3.41	4.56
		8.4	7.97 *	07/11/06	3.39	4.58
		8.4	7.97 *	04/17/06	3.48	4.49
		8.4	7.97 *	08/22/05	3.50	4.47
		8.4	7.97 *	03/01/05	3.08	4.89
		8.4	7.97 *	11/10/04	2.96	5.01
		8.4	7.97 *	06/14/04	3.34	4.63
		8.4	7.97 *	03/02/04	2.46	5.51
		8.4	7.97 *	12/03/03	3.18	4.79
		8.4	7.97 *	09/15/03	3.45	4.52
		8.4	7.97 *	06/24/03	3.35	4.62
		8.4	7.97 *	04/08/03	3.63	4.34
		8.4	7.97 *	12/10/02	3.43	4.54
		8.4	7.97 *	09/13/02	3.46	4.51
		8.4	7.97 *	07/01/02	3.60	4.37
Second	M025-E ‡	8.7	8.34	03/12/07	5.55	2.79
		8.7	8.34	12/13/06	NM	NC
		8.7	8.34	09/27/06	4.28	4.06
		8.7	8.34	07/11/06	5.50	2.84
		8.7	8.34	04/17/06	5.30	3.04
		8.7	8.34	08/22/05	5.83	2.51
		8.7	8.34	03/01/05	5.00	3.34
		8.7	8.34	11/10/04	NM	NC
		8.7	8.34	06/14/04	4.14	4.20
		8.7	8.34	09/13/02	4.97	3.37
Second	M027-B	9.8	9.33 *	03/12/07	5.40	3.93
		9.8	9.33 *	12/13/06	5.14	4.19
		9.8	9.33 *	09/27/06	4.76	4.57
		9.8	9.33 *	07/11/06	5.06	4.27
		9.8	9.33 *	04/17/06	5.18	4.15
		9.8	9.33 *	08/27/05	5.45	3.88
		9.8	9.33 *	03/01/05	4.80	4.53
		9.8	9.33 *	11/10/04	3.69	5.64
		9.8	9.33 *	06/14/04	4.67	4.66
		9.8	9.33 *	03/02/04	3.80	5.53
		9.8	9.33 *	12/03/03	4.10	5.23
		9.8	9.33 *	09/15/03	4.88	4.45
		9.8	9.33 *	06/24/03	4.69	4.64
		9.8	9.33 *	04/08/03	5.72	3.61
		9.8	9.33 *	12/10/02	5.00	4.33
		9.8	9.33 *	09/13/02	5.10	4.23
		9.8	9.33 *	07/02/02	6.18	3.15

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M027-C	9.5	8.92 *	03/12/07	4.80	4.12
		9.5	8.92 *	12/13/06	4.52	4.40
		9.5	8.92 *	09/27/06	4.15	4.77
		9.5	8.92 *	07/11/06	4.56	4.36
		9.5	8.92 *	04/17/06	4.50	4.42
		9.5	8.92 *	08/22/05	4.81	4.11
		9.5	8.92 *	03/01/05	4.22	4.70
		9.5	8.92 *	11/10/04	3.71	5.21
		9.5	8.92 *	06/14/04	4.63	4.29
		9.5	8.92 *	03/02/04	3.96	4.96
		9.5	8.92 *	12/03/03	4.12	4.80
		9.5	8.92 *	09/15/03	4.81	4.11
		9.5	8.92 *	06/24/03	4.68	4.24
		9.5	8.92 *	04/08/03	5.60	3.32
		9.5	8.92 *	12/10/02	4.78	4.14
		9.5	8.92 *	09/13/02	4.90	4.02
		9.5	8.92 *	07/02/02	5.60	3.32
Second	M028-C	10.9	10.86 *	03/12/07	7.52	3.34
		10.9	10.86 *	12/13/06	7.06	3.80
		10.9	10.86 *	09/27/06	6.44	4.42
		10.9	10.86 *	07/11/06	7.22	3.64
		10.9	10.86 *	04/17/06	7.23	3.63
		10.9	10.86 *	08/22/05	7.84	3.02
		10.9	10.86 *	03/01/05	7.04	3.82
		10.9	10.86 *	11/10/04	5.44	5.42
		10.9	10.86 *	06/14/04	6.75	4.11
		10.9	10.86 *	03/02/04	6.25	4.61
		10.9	10.86 *	12/03/03	6.21	4.65
		10.9	10.86 *	09/15/03	7.19	3.67
		10.9	10.86 *	06/24/03	6.66	4.20
		10.9	10.86 *	04/08/03	7.71	3.15
		10.9	10.86 *	12/10/02	6.65	4.21
		10.9	10.86 *	09/13/02	6.73	4.13
		10.9	10.86 *	07/02/02	7.81	3.05
Second	M030-C	10.3	10.41 *	03/06/07	7.62	2.79
		10.3	10.41 *	12/12/06	5.99	4.42
		10.3	10.41 *	09/25/06	6.91	3.50
		10.3	10.41 *	07/11/06	8.27	2.14
		10.3	10.41 *	04/11/06	6.13	4.28
		10.3	10.41 *	08/22/05	8.06	2.35
		10.3	10.41 *	03/01/05	6.58	3.83
		10.3	10.41 *	11/10/04	6.95	3.46
		10.3	10.41 *	06/14/04	7.23	3.18
		10.3	10.41 *	03/02/04	5.44	4.97
		10.3	10.41 *	12/03/03	5.73	4.68
		10.3	10.41 *	09/15/03	7.03	3.38
		10.3	10.41 *	06/24/03	6.69	3.72

Table 7.1-2
Summary of Groundwater Level Measurements at
Operable Unit 3 - IR Sites 1 and 32,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M030-C	10.3	10.41 *	04/08/03	7.48	2.93
		10.3	10.41 *	12/10/02	6.60	3.81
		10.3	10.41 *	09/13/02	6.28	4.13
		10.3	10.41 *	07/15/02	7.86	2.55
Second	M031-C	9.00	8.87 *	03/06/07	4.87	4.00
		9.00	8.87 *	12/12/06	4.68	4.19
		9.00	8.87 *	09/25/06	4.76	4.11
		9.00	8.87 *	07/11/06	4.82	4.05
		9.00	8.87 *	04/11/06	3.95	4.92
		9.00	8.87 *	08/22/05	4.97	3.90
		9.00	8.87 *	03/01/05	4.50	4.37
		9.00	8.87 *	11/10/04	4.44	4.43
		9.00	8.87 *	06/14/04	4.92	3.95
		9.00	8.87 *	03/02/04	4.21	4.66
		9.00	8.87 *	12/03/03	4.67	4.20
		9.00	8.87 *	09/15/03	5.02	3.85
		9.00	8.87 *	06/24/03	5.03	3.84
		9.00	8.87 *	04/08/03	5.08	3.79
		9.00	8.87 *	12/10/02	4.93	3.94
		9.00	8.87 *	09/13/02	4.86	4.01
		9.00	8.87 *	07/02/02	5.28	3.59

Notes:

BTOC = below top of casing

msl = mean sea level

NC = Groundwater elevation not calculated

NF = Monitoring well not found

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	-	-	-	-	-	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	0.40 J	< 0.50	0.20 J	< 0.50	0.10 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J
		2004 02 (Summer)	-	-	-	-	-	0.50	< 0.50	0.10 J	< 0.50	0.10 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	0.65	< 1.0	0.29 J	< 1.0	0.23 J	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	0.80	0.10 J	0.30 J	0.20 J	0.20 J	< 2.0	0.10 J	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50 UJ	< 0.50	0.20 J
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.70	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M001-E	2007 01 (Spring)	-	-	-	-	-	5.1	0.80 J	4.0	1.2 J	15.0	430	< 2.0 UJ	10.0	1.7 J	< 2.0	< 0.60	< 2.0	0.80 J	< 2.0	1.2 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2006 03 (Fall)	-	-	-	-	-	3.9	0.60 J	2.9	0.90 J	8.6	190	< 1.0	6.8	1.3	< 1.0	0.30 J	< 1.0	< 1.0	< 1.0	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	0.30 J
		2006 01 (Spring)	-	-	-	-	-	5.5	0.90	4.7	1.5	15.0	210	< 0.50	9.1	1.8	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	1.1	0.20 J	< 0.50	< 0.50	< 0.50	0.50
		2005 02 (Summer)	-	-	-	-	-	5.3	0.80 J	3.6	1.3 J	11.0	220	< 1.7	9.0	1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	1.1 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2005 01 (Spring)	-	-	-	-	-	5.5	0.80	4.1	1.2	12.0	230	< 0.50	11.0	1.7	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	6.1	1.0	3.6	1.4	11.0	270	< 0.50	9.1	2.0	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J
		2004 02 (Summer)	-	-	-	-	-	5.2	0.80	3.7	1.5	12.0	230	< 0.50	9.8	1.8	< 0.50	0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J
		2004 01 (Spring)	-	-	-	-	-	4.5	0.56 J	2.8	1.1	9.3	200	< 5.0	12.0	1.3	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	0.73 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	4.5	0.79 J	2.7	1.3	9.1	200	< 5.0	7.7	1.4	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	1.1	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	6.1	1.0	3.8	1.8	13.0	210 J	< 5.0	10.0	2.1	< 1.0	0.50 J	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 0.50	< 1.0	0.51
		2003 02 (Summer)	-	-	-	-	-	4.4	0.74 J	3.6	1.6	12.0	360	< 5.0	9.2	1.6	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	0.88 J	< 1.0	< 1.0	< 0.50	< 1.0	0.43 J
		2003 01 (Spring)	-	-	-	-	-	6.4	1.0	4.2	1.9	13.0	260	< 0.50	13.0	1.9	< 0.50	0.60	< 0.50	< 0.50 UJ	< 0.50	1.2	0.20 J	< 0.50	< 0.50	< 0.50	0.50
		2002 04 (Winter)	-	-	-	-	-	5.6	0.90	4.4	1.9	14.0	300	< 0.50	14.0	2.1	< 0.50	0.50	< 0.20 J	< 0.50	< 0.50	1.0	0.20 J	< 0.50	< 0.50	< 0.50	0.60
		2002 03 (Fall)	-	-	-	-	-	5.4	0.90	3.3	1.8	11.0	230	< 0.50	10.0	1.8	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J
		2002 02 (Summer)	< 50.0	< 50.0	< 300	140	140	4.9	0.80 J	2.9	1.3	8.4	210	< 1.0	10.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.90 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M002-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	14.0	< 0.50	17.0	0.40 J	< 0.50	< 0.50	< 0.50	0.70
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.2	< 0.50	6.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	22.0	< 0.50	17.0	0.70	< 0.50	< 0.50	< 0.50	0.80
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.3	< 0.50	6.2	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	24.0	< 0.50	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	11.0	< 0.50	6.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.8	< 0.50	4.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12.0	< 1.0	7.0	0.42 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	25.0	< 1.0	7.2	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.0	< 1.0	6.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10.0	< 1.0	6.2	0.28 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	24.0 J	< 0.50	5.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	39.0	< 0.50	15.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	8.1	< 0.50	7.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	11.0	< 0.50	6.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M003-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	2.7	< 0.50	< 0.50	0.40 J	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.50 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M003-A	2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M004-A	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M005-A	2007 01 (Spring)	-	-	-	-	-	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	0.20 J	< 0.50	0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	0.10 J	< 0.50	0.20 J
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	0.20 J	< 0.50	0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	0.60
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M006-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	2.0	0.20 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	54.0 J	< 50.0	54.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M007-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	5.6	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	3.8	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	5.3	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	4.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	1.4 J	< 1.0	6.2	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.44 J	< 1.0 UJ	5.2	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50	3.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M025-A	2007 01 (Spring)	-	-	-	-	-	0.40 J	< 0.50	< 0.50	0.080 J	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.60	< 0.50	< 0.50	0.20 J	< 0.50	2.1
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.70	0.20 J	< 0.50	0.20 J	< 0.50	0.90
		2006 01 (Spring)	-	-	-	-	-	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.70	< 0.50	< 0.50	0.10 J	< 0.50	1.3
		2005 02 (Summer)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	0.50
		2004 04 (Winter)	-	-	-	-	-	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	1.0	< 0.50	< 0.50	0.30 J	< 0.50	1.6
		2004 02 (Summer)	-	-	-	-	-	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	1.5	0.20 J	< 0.50	0.40 J	< 0.50	0.70
		2003 04 (Winter)	-	-	-	-	-	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	1.1	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	0.52	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	0.70
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	< 0.50	< 0.50	0.50 J	< 0.50	< 0.50
	M026-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.30	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M026-A	2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M026-E	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.50 J	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	1.5	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.50	< 0.50	4.4	0.40 J	< 0.50	0.20 J	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.20 J	< 0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	2.3	< 1.0	6.2	0.47 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50 UJ	< 0.50	2.5	0.20 J	< 0.50	0.20 J	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.50 J	< 0.50	< 0.20 J	0.50	0.70	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-E	2005 02 (Summer)	-	-	-	-	-	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	1.5	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-E	2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	2.9	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M028-A	2005 02 (Summer)	-	-	-	-	-	12.0	0.40 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	20.0	4.0	0.30 J	2.0	< 0.50	0.60	< 0.50	1.8	< 0.50	1.9	< 0.50	< 0.50	1.1
		2005 01 (Spring)	-	-	-	-	-	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.1	< 2.0	180	< 2.0	< 2.0	< 2.0	< 2.0	300
		2004 04 (Winter)	-	-	-	-	-	21.0	45.0	8.5	23.0	8.6	5.1	< 0.50	32.0	4.4	0.40 J	3.2	< 0.50	0.90	< 0.50	20.0	< 0.50	6.8	0.30 J	< 0.50	260
		2004 02 (Summer)	-	-	-	-	-	14.0	0.60	1.4	< 0.50	< 0.50	< 2.0	< 0.50	34.0	7.3	0.40 J	3.9	< 0.50	< 0.50	< 0.50	0.80	< 0.50	2.4	< 0.50	< 0.50	1.0
		2004 01 (Spring)	-	-	-	-	-	1.9	0.23 J	0.25 J	0.42 J	0.46 J	< 2.0	< 5.0	1.6	0.44 J	< 1.0	0.25 J	0.28 J	2.1	< 1.0	100	0.25 J	0.92 J	< 0.50	< 1.0	100
		2003 04 (Winter)	-	-	-	-	-	6.3	10.0	5.8	20.0	9.6	8.3	< 5.0	17.0	3.0	0.34 J	2.4	< 1.0	1.1	< 1.0	13.0	< 1.0	1.7	< 0.50	< 1.0	5.1
		2003 03 (Fall)	-	-	-	-	-	50.0	18.0	21.0	58.0	32.0	16.0 J	< 5.0	85.0	9.6	0.84 J	6.2	< 1.0	0.42 J	< 1.0	1.8	0.22 J	19.0	< 0.50	< 1.0	2.3
		2003 02 (Summer)	-	-	-	-	-	12.0	0.94 J	1.2	< 1.0	0.23 J	< 2.0	< 5.0	26.0	6.3	0.38 J	2.7	< 1.0	< 1.0	< 1.0	1.1	< 1.0	1.3	< 0.50	< 1.0	1.5
		2003 01 (Spring)	-	-	-	-	-	6.7	0.30 J	0.30 J	0.30 J	0.20 J	< 2.0	< 0.50	8.7	3.0	0.20 J	1.2	0.20 J	0.80 J	< 0.50	27.0	0.20 J	1.3	< 0.50	< 0.50	15.0
		2002 04 (Winter)	-	-	-	-	-	< 0.50	3.9	0.50 J	1.6	0.70	1.3 J	< 0.50	1.1	0.30 J	< 0.50	< 0.50	0.30 J	3.8	< 0.50	43.0	< 0.50	0.40 J	< 0.50	< 0.50	3.6
		2002 03 (Fall)	-	-	-	-	-	53.0	15.0	20.0	56.0	30.0	11.0	< 0.50	77.0	9.6	0.80	6.5	< 0.50	< 0.50	< 0.50	1.7	< 0.50	21.0	0.40 J	< 0.50	2.2
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 150	< 300	10.0	0.60	2.8	1.4	1.3	< 2.0	< 0.50	21.0	5.1	0.40 J	2.7	< 0.50	< 0.50	< 0.50	7.7	< 0.50	3.1	< 0.50	< 0.50	12.0
	M028-E	2007 01 (Spring)	-	-	-	-	-	85.0	3400	69.0	240	100	< 200 UJ	< 50.0	100	79.0	< 50.0	< 16.0	< 50.0	< 50.0	34.0 J	6500	64.0	35.0 J	< 50.0	< 50.0	31000
		2006 03 (Fall)	-	-	-	-	-	44.0	870	52.0	160	66.0	65.0 J	< 42.0	120	30.0 J	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	2500	11.0 J	15.0 J	< 42.0	< 42.0	5500
		2006 01 (Spring)	-	-	-	-	-	32.0	190	34.0	38.0	30.0	17.0	< 1.0	63.0	22.0	1.0	8.3	< 1.0	< 1.0	< 1.0	1.7	< 1.0	6.1	0.10 J	< 1.0	190
		2005 02 (Summer)	-	-	-	-	-	37.0	690	44.0	130	57.0	42.0	< 6.3	100	30.0	1.4 J	11.0	< 6.3	< 6.3	< 6.3	330	3.2 J	16.0	< 6.3	< 6.3	5000
		2005 01 (Spring)	-	-	-	-	-	44.0	380	35.0	67.0	45.0	15.0	< 3.1	70.0	21.0	0.70 J	8.3	< 3.1	< 3.1	< 3.1	70.0	< 3.1	12.0	< 3.1	< 3.1	3000
		2004 04 (Winter)	-	-	-	-	-	85.0 J	2400 J	77.0 J	220 J	110 J	56.0 J	< 25.0	64.0 J	53.0 J	< 25.0	14.0 J	< 25.0	< 25.0	< 25.0	3500 J	< 25.0	32.0 J	< 25.0	< 25.0	22000 J
		2004 02 (Summer)	-	-	-	-	-	56.0 J	1400	59.0 J	210	80.0	< 250 J	< 63.0	100	58.0 J	< 63.0	16.0 J	< 63.0	< 63.0	< 63.0	4900	< 63.0	18.0 J	< 63.0	< 63.0	13000
		2004 01 (Spring)	-	-	-	-	-	66.0	1700	53.0	150	82.0	32.0	< 50.0	73.0	42.0	< 10.0	10.0	< 10.0	< 10.0	5.5 J	6700	11.0	23.0	< 5.0	< 10.0	20000
		2003 04 (Winter)	-	-	-	-	-	59.0	1400	70.0	1.9	120	64.0	< 5.0	66.0	36.0	1.4	0.30 J	< 1.0	< 1.0	6.8	3900	30.0 J	24.0	3.1	< 1.0	9400
		2003 03 (Fall)	-	-	-	-	-	64.0	1400	61.0	230	100	74.0 J	< 5.0	110	42.0	1.2	< 1.0	< 1.0	< 1.0	5.1	4500	23.0	22.0	< 0.50	< 1.0	12000
		2003 02 (Summer)	-	-	-	-	-	66.0	1200	80.0	300	140	100	< 5.0	150	59.0	1.5	14.0	< 1.0	< 1.0	0.71 J	880	3.4	25.0	< 0.50	< 1.0	8300

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-E	2003 01 (Spring)	-	-	-	-	-	85.0	2800	59.0	220	100	39.0 J	< 36.0	60.0	65.0	< 36.0	12.0 J	< 36.0	< 36.0 UJ	34.0 J	14000	20.0 J	35.0 J	< 36.0	< 36.0	35000
		2002 04 (Winter)	-	-	-	-	-	66.0	1400	72.0	240	110	< 200	< 13.0	66.0	53.0	< 13.0	13.0	< 13.0	13.0	4.9 J	6400	8.5 J	18.0	< 13.0	< 13.0	11000
	M029-A	2007 01 (Spring)	-	-	-	-	-	2.0	< 0.50	< 0.50	0.20 J	0.090 J	< 2.0	< 0.50	0.40 J	0.060 J	< 0.070	< 0.10	< 0.50	0.10 J	< 0.50	0.30 J	0.30 J	< 0.50	0.30 J	< 0.50	0.40 J
		2006 03 (Fall)	-	-	-	-	-	1.6	< 0.50	0.10 J	0.20 J	0.10 J	0.070 J	< 0.50	0.60	0.090 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	0.30 J	0.30 J	0.060 J	0.20 J	< 0.50	0.30 J
		2006 01 (Spring)	-	-	-	-	-	4.8	< 0.50	0.080 J	0.20 J	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	0.20 J	0.10 J	0.20 J	< 0.50	0.30 J
		2005 02 (Summer)	-	-	-	-	-	1.8	< 0.50	0.080 J	0.10 J	0.10 J	< 2.0	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.30 J	< 0.50	0.20 J	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	2.9	< 0.50	0.090 J	0.10 J	< 0.50	< 2.0	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	3.7	0.20 J	0.10 J	0.30 J	0.10 J	< 2.0	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	0.40 J	< 0.50	0.30 J	< 0.50	0.40 J
		2004 02 (Summer)	-	-	-	-	-	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	0.20 J	< 1.0	< 0.50	< 1.0	0.50
		2003 04 (Winter)	-	-	-	-	-	2.0	0.20 J	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	0.21 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	2.2	0.60 J	< 1.0	0.35 J	< 1.0	< 2.0	< 5.0	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.84 J	0.25 J	< 1.0	< 0.50	< 1.0	2.7
		2003 02 (Summer)	-	-	-	-	-	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	2.4	0.10 J	0.10 J	0.20 J	< 0.50	< 2.0	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	0.40 J	0.30 J	< 0.50	0.20 J	< 0.50	0.40 J
		2002 04 (Winter)	-	-	-	-	-	3.0	< 0.50	< 0.50	< 0.50	< 0.20 J	< 2.0	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.30 J	< 0.50	< 0.20 J	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 79.0	< 300	2.4	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
	M029-E	2005 02 (Summer)	-	-	-	-	-	0.50	0.60	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	0.80	< 0.50	0.20 J	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	0.60	0.30 J	< 0.50	< 0.50	< 0.50	0.40 J
		2004 02 (Summer)	-	-	-	-	-	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	0.95	< 1.0	0.20 J	< 1.0	< 1.0	< 2.0	< 5.0	0.40 J	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	0.45 J	0.24 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	0.90	< 1.0	0.22 J	< 1.0	0.27 J	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	0.36 J	< 1.0	< 0.50	< 1.0	0.48 J
		2002 04 (Winter)	-	-	-	-	-	1.0	< 0.50	< 0.20 J	< 0.50	< 0.20 J	1.0 J	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	0.30 J	< 0.50	< 0.50	< 0.50	0.60
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50
	M030-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M030-A	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	0.24 J	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 0.50	< 1.0	1.1
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M031-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.63 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	0.27 J	< 1.0	< 1.0	0.60 J	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.88 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M031-E	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M032-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	0.60	< 0.50	0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	1.0	< 0.50	0.80
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	0.40 J	< 0.50	0.40 J
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	0.80	< 0.50	0.70
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	0.90	< 0.50	0.90
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	0.60	< 0.50	0.70
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	0.92	< 1.0	1.1
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	0.67	< 1.0	0.74
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	0.80	< 0.50	1.1
		2002 02 (Summer)	< 50.0	< 50.0	< 300	17.0 J	17.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	0.80	< 0.50	1.0
	M033-A	2007 01 (Spring)	-	-	-	-	-	0.20 J	4.0	0.10 J	0.40 J	0.10 J	< 2.0 UJ	< 0.50	0.10 J	0.20 J	< 0.50	< 0.090	< 0.50	< 0.50	< 0.50	8.1	0.50	< 0.50	0.20 J	< 0.50	8.7
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.8	0.40 J	< 0.50	0.10 J	< 0.50	0.80
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	0.20 J	< 0.50	0.20 J	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.2	< 0.50	< 0.50	0.30 J	< 0.50	0.90
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.4	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	0.49 J	< 1.0	< 0.50	< 1.0	1.1
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	8.7	0.42 J	< 1.0	0.27 J	< 1.0	0.97
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 0.50	< 1.0	1.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M033-A	2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.0	0.30 J	< 1.0	< 0.50	< 1.0	0.94
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	2.5	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	16.0	0.80	< 0.50	< 0.50	< 0.50	1.7
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.0	< 0.50	< 0.50	< 0.30 J	< 0.50	1.5
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 140	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	7.9	0.50 J	< 0.50	0.30 J	< 0.50	2.2
	M034-A	2007 01 (Spring)	-	-	-	-	-	21.0	0.70	4.6	14.0	1.6	1.8 J	< 0.50	9.7	2.4	0.50	1.9	< 0.50	< 0.50	< 0.50	0.90	0.40 J	0.30 J	< 0.50	< 0.50	1.7
		2006 03 (Fall)	-	-	-	-	-	38.0	0.80	0.70	4.8	0.30 J	0.90 J	< 0.50	22.0	2.3	0.80	3.3	< 0.50	< 0.50	< 0.50	0.20 J	0.40 J	0.80	< 0.50	< 0.50	0.20 J
		2006 01 (Spring)	-	-	-	-	-	19.0	1.9	7.3	23.0	3.2	8.6	< 0.50	11.0	4.8	0.70	2.9	< 0.50	< 0.50	0.20 J	1.2	0.50	0.30 J	< 0.50	< 0.50	2.2
		2005 02 (Summer)	-	-	-	-	-	21.0	0.80	0.60	2.7	0.30 J	0.90 J	< 0.50	14.0	1.3	0.80	2.5	< 0.50	< 0.50	< 0.50	0.20 J	0.30 J	0.30 J	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	35.0	2.8	11.0	35.0	6.4	14.0	< 0.50	17.0	6.6	0.90	4.2	< 0.50	< 0.50	0.40 J	1.1	0.50	0.50	< 0.50	< 0.50	2.1
		2004 04 (Winter)	-	-	-	-	-	21.0	0.80	1.6	7.2	0.70	6.3	< 0.50	13.0	3.5	0.70	3.3	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.50	< 0.50	< 0.50	0.40 J
		2004 02 (Summer)	-	-	-	-	-	27.0	0.50	0.60	6.6	0.20 J	9.5	< 0.50	14.0	1.9	0.60	2.6	< 0.50	< 0.50	< 0.50	0.40 J	0.30 J	0.30 J	< 0.50	< 0.50	0.40 J
		2004 01 (Spring)	-	-	-	-	-	31.0	18.0	12.0	33.0	10.0	22.0	< 5.0	13.0	6.0	0.67 J	3.3	< 1.0	< 1.0	0.39 J	1.2	0.48 J	0.58 J	< 0.50	< 1.0	4.0
		2003 04 (Winter)	-	-	-	-	-	21.0	7.6	5.9	20.0	4.1	29.0	< 5.0	13.0	4.9	0.74 J	3.4	< 1.0	< 1.0	0.20 J	0.86 J	0.41 J	0.40 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	49.0	1.0	2.6	14.0	0.40 J	24.0	< 5.0	23.0	2.2	0.69 J	3.4	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	1.6	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	30.0	0.70 J	1.4	7.4	0.31 J	20.0	< 5.0	14.0	1.7	0.51 J	2.3	< 1.0	< 1.0	< 1.0	0.32 J	0.23 J	0.35 J	< 0.50	< 1.0	0.43 J
		2003 01 (Spring)	-	-	-	-	-	19.0	0.90	7.7	19.0	1.1	17.0 J	< 0.50	12.0	4.3	0.80	3.3	< 0.50	< 0.50 UJ	< 0.50	0.90	0.40 J	< 0.50	< 0.50	< 0.50	0.50
		2002 04 (Winter)	-	-	-	-	-	35.0	530	16.0	50.0	22.0	63.0	< 1.0	25.0	9.2	1.0	5.4	< 1.0	0.70 J	2.9	32.0	1.0 J	2.0	< 1.0	< 1.0	65.0
		2002 03 (Fall)	-	-	-	-	-	45.0	1.7	6.5	29.0	1.6	46.0	< 0.50	28.0	3.4	0.80	4.5	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	2.2	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	46.0 J	190 J	< 300 UJ	490	726	30.0	1.2	4.0	10.0	0.40 J	82.0	< 0.50	13.0	2.6	0.60	2.6	< 0.50	< 0.50	< 0.50	0.40 J	0.30 J	0.50 J	< 0.50	< 0.50	0.50 J
	M035-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	6.6	0.20 J	3.3	1.9	< 0.50	< 0.50	< 0.50	0.60
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	3.9	0.30 J	4.1	2.8	< 0.50	0.30 J	< 0.50	0.60
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	6.1	< 0.50	0.90	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	4.3	0.20 J	3.8	3.2	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	6.3	< 0.50	1.8	1.1	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	5.5	0.40 J	6.5	5.1	< 0.50	0.20 J	< 0.50	0.40 J
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	5.0	0.20 J	3.5	2.5	< 0.50	< 0.50	< 0.50	0.40 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M035-A	2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	5.0	< 1.0	1.9	1.5	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.9	0.34 J	5.9	3.1 J	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	0.33 J	5.5	3.8	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.9	0.35 J	3.9	2.9	< 1.0	< 0.50	< 1.0	0.44 J
		2003 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.40 J	6.8 J	0.40 J	3.9 J	2.4 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.20 J	< 0.50	0.40 J	1.9 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	7.2	< 0.50	2.7	0.80	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.2	0.50	5.5	3.8	< 0.50	< 0.50	< 0.50	0.50 J
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	6.5	0.50 J	4.9	2.9	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	M001-B	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	0.74	< 1.0	0.20 J	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	0.49 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	3.3	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	1.4	< 0.50
	M003-B	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M025-C	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWGZ	M025-C	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-B	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0 J	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-C	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M028-C	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWQZ	M028-C	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M030-C	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M031-C	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMU	M031-C	2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	0.52 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	1.9 J	< 9.6 UJ	< 9.6	< 9.6 UJ
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4 UJ	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	1.7 J	1.1 J	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	0.99 J	< 9.7	< 9.7	< 9.7	< 9.7
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	M001-E	2007 01 (Spring)	7.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	2.3 J	< 9.4	190	1.8 J	< 9.4	< 47.0 UJ	< 9.4	< 9.4	2.3 J	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	6.8 J	0.50 J	< 9.6	< 9.6	< 9.6	< 9.6	0.62 J	2.8 J	< 9.6	240	2.3 J	< 9.6	< 48.0	< 9.6	1.2 J	3.5 J	0.81 J	< 9.6	1.8 J
		2005 02 (Summer)	4.2 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	1.6 J	< 9.5	< 9.5	1.2 J	< 9.5	< 48.0	< 9.5	0.93 J	2.2 J	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	4.3 J	0.35 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.6 J	< 9.6	< 9.6	1.4 J	< 9.6	< 48.0	< 9.6	1.1 J	3.4 J	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	4.7 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.2 J	< 9.6	< 9.6	0.88 J	< 9.6	< 48.0	< 9.6	< 9.6	2.7 J	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	4.6 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.6 J	< 9.4	160	1.4 J	< 9.4	< 47.0	< 9.4	0.89 J	3.1 J	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	4.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	100	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 01 (Spring)	5.8 J	0.55 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	2.2 J	< 9.5	130	2.0 J	< 9.5	< 48.0	< 9.5	1.1 J	3.1 J	< 9.5	< 9.5	1.4 J
		2002 04 (Winter)	5.9 J	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	2.3 J	< 9.6 UJ	230	2.1 J	< 9.6	< 48.0	< 9.6	0.97 J	2.8 J	< 9.6	< 9.6	1.4 J
		2002 03 (Fall)	1.3 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	2.8 J	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	1.5 J	1.5 J	< 9.4	< 9.4	< 9.4	< 9.4	1.5 J	< 9.4	< 9.4	4.1 J	1.2 J	< 9.4	< 47.0	< 9.4	0.94 J	< 9.4	< 9.4	< 9.4	0.96 J
	M002-A	2007 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 51.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M001-E	2007 01 (Spring)	1.4 J	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	7.7 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	1.5 J	< 9.6	< 9.6	0.67 J	< 9.6	1.8 J	< 9.6	8.9 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	1.0 J	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	2.3 J	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	1.1 J	< 9.6	< 9.6	< 19.0	< 9.6	1.5 J	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	2.4 J	< 19.0	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	3.9 J	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	1.3 J	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	5.0 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 01 (Spring)	1.5 J	< 9.5	0.39 J	< 19.0	< 9.5	3.6 J	< 9.5	7.1 J	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 04 (Winter)	1.5 J	< 9.6	< 9.6	< 19.0	< 9.6	3.3 J	< 9.6 UJ	6.6 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	2.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	1.2 J	< 9.4	< 9.4	< 19.0	< 9.4	2.2 J	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M002-A	2007 01 (Spring)	< 10.0	< 10.0	< 10.0	< 21.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 21.0	< 10.0	< 21.0	< 10.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M002-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	0.51 J	< 9.4	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
	M003-A	2007 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	1.4 J	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7 UJ	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs													
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M002-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M003-A	2007 01 (Spring)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7 UJ	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M004-A	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	1.5 J	< 9.4	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
	M006-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	1.1 J	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	1.7 J	< 9.4	< 9.4
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	19.0 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	4.2 J	< 9.5	< 9.5
	M007-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 J	< 9.8 J	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 49.0 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 2.4 J	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M025-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M004-A	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	0.48 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
	M006-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
	M007-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0 J	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M025-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	0.46 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M025-A	2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	14.0	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4 UJ	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 19.0	< 9.7	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	18.0 J	< 9.6	< 9.6
		2003 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M026-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	21.0	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
	M026-E	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	3.0 J	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	5.5 J	< 9.4	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
	M027-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M025-A	2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	7.1 J	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M026-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
	M026-E	2005 02 (Summer)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M027-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4 UJ	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	98.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	350	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	7.4 J	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M028-A	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	0.60 J	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	4.9 J	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	2.0 J	< 9.5 UJ	< 9.5	< 9.5 UJ
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4 UJ	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	10.0	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	8.4 J	< 14.0	< 14.0	< 72.0	< 14.0	< 14.0	1.9 J	< 14.0	< 14.0	< 14.0
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
	M028-E	2007 01 (Spring)	< 480	< 480	< 480	< 480	< 480	< 480	< 480	< 480	< 480	54.0 J	< 480	< 480	< 2400	< 480	< 480	< 480	< 480	< 480	< 480
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	17.0	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs													
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M028-A	2005 02 (Summer)	3.9 J	< 9.6	2.3 J	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	3.6 J	< 9.8	2.6 J	< 20.0	< 9.8	140	< 9.8	< 9.8	3.2 J	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	5.2 J	< 9.5	3.0 J	< 19.0 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	57.0	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	6.0 J	< 9.4	< 9.4	< 19.0	< 9.4	710	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	2.4 J	< 9.4	0.95 J	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 03 (Fall)	7.3 J	< 14.0	4.9 J	< 29.0	< 14.0	290	< 14.0	< 14.0	4.6 J	< 14.0	< 29.0	< 14.0	< 29.0	< 14.0
		2002 02 (Summer)	3.2 J	< 9.7	1.6 J	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M028-E	2007 01 (Spring)	67.0 J	< 480	< 480	< 950	< 480	3100	< 480	< 480	570	< 480	< 950	< 480	< 950	< 480
		2006 01 (Spring)	17.0	0.79 J	6.9 J	< 19.0	1.1 J	210	< 9.4	< 9.4	3.8 J	1.1 J	< 19.0	< 9.4	1.0 J	0.90 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-E	2005 02 (Summer)	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	52.0	< 47.0	< 47.0	< 240	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0
		2005 01 (Spring)	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	15.0 J	< 50.0	< 50.0	< 250	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
		2004 04 (Winter)	< 190	< 190	< 190	< 190	< 190	< 190	< 190	< 190	< 190	70.0 J	< 190	< 190	< 970	< 190	< 190	< 190	< 190	< 190	< 190
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	2.5 J	< 9.5	59.0	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	2.0 J	< 9.5	< 9.5
		2004 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	35.0	< 10.0	11.0	< 50.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0 UJ	< 10.0
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	29.0	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	63.0	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	49.0	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	56.0 J	< 95.0	< 95.0	< 480	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0
		2002 04 (Winter)	< 240	< 240	< 240	< 240	< 240	< 240	< 240	< 240	< 240	64.0 J	< 240	< 240	1600 J	< 240	< 240	< 240	< 240	< 240	< 240
	M029-A	2007 01 (Spring)	4.8 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.78 J	< 9.4	< 9.4	0.81 J	< 9.4	< 47.0	< 9.4	< 9.4	0.73 J	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	2.2 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	1.0 J	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	4.9 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	0.66 J	< 9.5	< 9.5	0.89 J	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	3.4 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	0.27 J	< 9.5	0.49 J	1.0 J	6.1 J	< 9.5	< 9.5
		2004 04 (Winter)	5.2 J	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	0.88 J	< 11.0	< 56.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0
		2004 02 (Summer)	5.5 J	1.3 J	< 9.9	< 9.9	< 9.9 UJ	< 9.9 UJ	< 9.9	< 9.9 UJ	< 9.9 UJ	< 9.9	1.2 J	< 9.9	< 50.0	< 9.9	< 9.9	2.2 J	< 9.9 UJ	< 9.9	< 9.9 UJ
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	5.8	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	17.0	< 9.6	< 9.6
		2003 03 (Fall)	6.1 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	5.8 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	5.5 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.3 J	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	1.5 J	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	6.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	1.2 J	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	6.6 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.4 J	< 9.6	< 9.6	0.88 J	< 9.6	< 48.0	< 9.6	< 9.6	1.9 J	< 9.6	< 9.6	0.80 J
		2002 02 (Summer)	4.1 J	1.4 J	< 9.4	< 9.4	< 9.4	< 9.4	1.3 J	0.75 J	< 9.4	< 9.4	0.96 J	< 9.4	< 47.0	< 9.4	1.2 J	1.9 J	< 9.4	< 9.4	1.2 J
	M029-E	2005 02 (Summer)	1.4 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	0.60 J	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	1.6 J	< 9.8	< 9.8
		2004 04 (Winter)	2.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	0.90 J	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	1.9 J	1.4 J	< 11.0	< 11.0	< 11.0 UJ	< 11.0 UJ	2.5 J	< 11.0 UJ	< 11.0 UJ	< 11.0	1.3 J	< 11.0	< 56.0	< 11.0	< 11.0	2.0 J	< 11.0 UJ	< 11.0	< 11.0 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-E	2005 02 (Summer)	28.0 J	< 47.0	11.0 J	< 94.0	3.2 J	1000	< 47.0	< 47.0	140	< 47.0	< 94.0	< 47.0	< 94.0	< 47.0
		2005 01 (Spring)	22.0 J	< 50.0	7.9 J	< 99.0	2.1 J	540	< 50.0	< 50.0	72.0	< 50.0	< 99.0	< 50.0	< 99.0	< 50.0
		2004 04 (Winter)	55.0 J	< 190	12.0 J	< 390	11.0 J	3400	< 190	< 190	390	< 190	< 390	< 190	< 390	< 190
		2004 02 (Summer)	38.0	1.3 J	13.0	< 19.0	6.0 J	1800	0.44 J	1.7 J	200	4.6 J	< 19.0	< 9.5	14.0 J	1.2 J
		2004 01 (Spring)	39.0	< 10.0	9.7 J	< 20.0	< 10.0	1400	< 10.0	< 10.0	370	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 04 (Winter)	27.0	< 9.4	7.6 J	< 19.0	9.0 J	2200	< 9.4	< 9.4	350	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	33.0	< 9.5	8.6 J	< 19.0	6.7 J	2400	< 9.5	< 9.5	320	5.7 J	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	40.0	< 9.5	9.0 J	< 19.0	5.8 J	1600	< 9.5	< 9.5	170 J	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	80.0 J	< 95.0	13.0 J	< 190	12.0 J	3900	< 95.0	< 95.0	850	< 95.0	< 190	< 95.0	< 190	< 95.0
		2002 04 (Winter)	< 240	< 240	< 240	< 490	< 240	2200	< 240 UJ	< 240	410	38.0 J	< 490	< 240	< 490 UJ	< 240
	M029-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 11.0	< 11.0	< 11.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 22.0	< 11.0	< 22.0	< 11.0
		2004 02 (Summer)	< 9.9	< 9.9	< 9.9	< 20.0 UJ	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M029-E	2005 02 (Summer)	< 9.8	< 9.8	< 9.8 UJ	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 11.0	< 11.0	< 11.0	< 22.0 UJ	< 11.0	< 11.0	< 11.0 UJ	< 11.0	< 11.0	< 11.0	< 22.0	< 11.0	< 22.0	< 11.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-E	2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	20.0	< 9.4	< 9.4
		2002 02 (Summer)	1.1 J	1.4 J	< 9.4	< 9.4	< 9.4	< 9.4	1.6 J	< 9.4	< 9.4	4.1 J	0.99 J	< 9.4	< 47.0	< 9.4	0.79 J	< 9.4	< 9.4	< 9.4	0.89 J
	M030-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	0.65 J	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.47 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	7.5 J	< 9.4	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	24.0	< 9.7	< 9.7
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5 UJ	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	350	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M031-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	0.70 J	< 9.4	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	19.0 J	< 9.5	< 9.5	< 9.5	8.2 J	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-E	2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M030-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 J	< 9.7
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M031-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	2.3 J	0.42 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0 UJ	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M031-A	2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M032-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.44 J	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	0.68 J	< 48.0	< 9.6	< 9.6	< 9.6	1.5 J	< 9.6	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	0.73 J	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.2 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M033-A	2006 01 (Spring)	0.57 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	0.53 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	1.8 J	< 10.0 UJ	< 10.0	< 10.0 UJ
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	0.78 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	4.6 J	< 9.4	< 9.4
		2002 03 (Fall)	1.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M031-A	2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M032-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M033-A	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0 UJ	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	< 10.0	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	2.7 J	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M034-A	2007 01 (Spring)	2.1 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.98 J	< 9.4	1.7 J	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	3.9 J	< 9.4	0.92 J
		2006 01 (Spring)	2.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.1 J	< 9.6	13.0	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.0 J
		2005 02 (Summer)	2.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.93 J	< 9.4	1.1 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	3.6 J	< 9.4	< 9.4	0.85 J
		2005 01 (Spring)	2.3 J	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	0.92 J	< 10.0	9.9 J	< 10.0	< 10.0	5.2 J	< 10.0	< 10.0	2.2 J	1.3 J	< 10.0	< 10.0
		2004 04 (Winter)	1.9 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	3.7 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	6.0 J	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	2.6 J	< 9.9	< 9.9	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 9.8	20.0	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 03 (Fall)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	15.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	13.0	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	11.0 J	< 9.5	< 9.5
		2003 01 (Spring)	1.4 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	18.0	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5
		2002 04 (Winter)	1.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	50.0	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.63 J
		2002 03 (Fall)	1.9 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	0.85 J	< 9.6	32.0	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	1.9 J	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	3.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	59.0	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	1.8 J	< 9.4	< 9.4	1.4 J
	M035-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0 UJ	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	5.7 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M034-A	2007 01 (Spring)	1.8 J	< 9.4	1.6 J	< 19.0	< 9.4	< 9.4	0.71 J	3.2 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	0.48 J
		2006 01 (Spring)	5.0 J	0.58 J	2.6 J	< 19.0	< 9.6	2.5 J	< 9.6	6.2 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	0.88 J
		2005 02 (Summer)	0.92 J	< 9.4	1.6 J	< 19.0	< 9.4	< 9.4	< 9.4	4.7 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	1.3 J
		2005 01 (Spring)	4.9 J	< 10.0	2.9 J	< 20.0 UJ	< 10.0	< 10.0	< 10.0	5.8 J	< 10.0	< 10.0	-	< 10.0	< 20.0	0.84 J
		2004 04 (Winter)	2.4 J	< 9.8	2.5 J	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	1.2 J	< 9.9	1.7 J	< 20.0	< 9.9	< 9.9	< 9.9	5.1 J	< 9.9	< 9.9	< 20.0	< 9.9	7.9 J	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	6.5 J	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	5.1 J	< 10.0	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	7.6 J	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	3.3 J	0.58 J	2.6 J	< 19.0 UJ	< 9.5	< 9.5	< 9.5	5.1 J	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 19.0 UJ	< 9.5
		2002 04 (Winter)	4.0 J	< 9.4	5.0 J	< 19.0	< 9.4	25.0	< 9.4 UJ	7.8 J	1.4 J	2.9 J	< 19.0	< 9.4	< 19.0 UJ	1.9 J
		2002 03 (Fall)	2.5 J	0.57 J	3.2 J	< 19.0	< 9.6	< 9.6	< 9.6	6.7 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	1.9 J	< 9.4	1.8 J	< 19.0	< 9.4	< 9.4	< 9.4	3.8 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M035-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0 UJ	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	-	< 9.7	< 19.0 UJ	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M001-B	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M003-B	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	1.9 J	< 9.4	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M025-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	2.7 J	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8 UJ	< 20.0	< 9.8	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	3.0 J	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M027-B	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs													
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M001-B	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M003-B	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M025-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0 UJ	< 9.5
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M027-B	2005 02 (Summer)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M027-B	2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M027-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
	M028-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5 UJ
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M030-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	1.8 J	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M027-B	2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M027-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M028-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	-	< 9.6	< 19.0 UJ	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M030-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M030-C	2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	4.8 J	< 9.4	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
	M031-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 J	< 9.8 J	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 49.0 J	< 9.8	< 9.8	< 9.8	5.9 J	< 9.8	< 9.8
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWQ2	M030-C	2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M031-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0 J	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 20.0 J	< 9.8	< 20.0 J	< 9.8
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M001-A	2007 01 (Spring)	4.5	< 5.0	75.0	< 2.0	< 5.0	< 0.90	0.15 J	3.9 J	< 1.7	46.0	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	7.6 J	34.0	110	< 100	82.0 J	15.0	15.0	83.0	< 0.010 UJ
		2006 01 (Spring)	17.0	2.8 J	48.0	< 2.0	0.96 J	4.7 J	< 1.0	20.0	< 3.0	1.7 J	< 0.20	9.3 J	2.4 J	2.2 J	< 5.0	2.4 J	11.0	**59.0**	< 100	< 100	130	11.0	8.7	16.0	< 0.010
		2005 02 (Summer)	0.94 J	2.3 J	89.0	0.11 J	0.16 J	< 10.0	0.36 J	0.69 J	0.47 J	84.0	< 0.20	3.4 J	4.1 J	1.2 J	0.078 J	4.4 J	1.1 J	5.9 J	< 100	680	51.0	17.0	20.0 J	200	< 0.010
		2005 01 (Spring)	6.9	< 5.0	76.0	0.35 J	0.65 J	< 10.0	< 1.0	7.6 J	1.3 J	76.0	< 0.20	3.7 J	4.2 J	< 5.0	< 5.0	< 5.0	5.5 J	**44.0**	< 100	< 100	91.0	12.0	12.0	85.0	< 0.010
		2004 04 (Winter)	0.40 J	2.3 J	170	< 2.0	< 5.0	0.47 J	0.24 J	0.98 J	0.39 J	140	< 0.20	2.2 J	1.6 J	3.7 J	< 5.0	1.0 J	0.84 J	6.3 J	3.1 J	1100	56.0 J	24.0 J	23.0	200	< 0.010
		2004 02 (Summer)	0.53 J	1.8	180	< 1.0	< 1.0	< 10.0	0.17 J	1.6	0.32 J	100	< 0.20	< 5.0	1.9	< 1.0	< 1.0	0.54 J	< 10.0	16.0 J	< 50.0	540	47.0	22.0	20.0	220	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	153	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	121	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	9.9 J	< 200	316	73.0	22.6	19.1 J	139	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	197	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	288	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	1310	57.4	29.4	27.2	235	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	157	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	98.0	< 0.40	< 50.0	< 20.0	< 20.0	< 100	< 5.0	< 50.0	< 20.0	< 200	671	38.2	24.9	20.6 J	284 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	291	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	183	< 0.40	< 50.0	1.7 J	< 20.0	< 10.0	< 5.0	< 50.0	3.2 J	< 200	818	59.1	26.2	28.9	180 J	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	250	< 2.0	< 5.0	< 10.0	< 10.0	4.9 J	< 3.0	210	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	8.8 J	6.4 J	920	67.0	26.0	17.0 J	130	< 0.010
		2002 04 (Winter)	10.0 J	< 5.0	78.0	< 2.0	0.87 J	< 10.0	0.18 J	13.0	0.55 J	28.0	< 0.20	6.9 J	4.2 J	0.91 J	< 5.0	< 2.0	8.4 J	33.0 J	4.9 J	420	89.0	13.0	12.0	57.0	< 0.010
		2002 03 (Fall)	0.40 J	< 5.0	120	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	39.0	< 0.20	2.4 J	< 20.0	0.62 J	< 5.0	< 2.0	< 10.0	< 20.0	< 100	230	25.0	26.0	30.0	370	< 0.010
		2002 02 (Summer)	0.38 J	1.3 J	160	0.025 J	< 5.0	0.46 J	0.16 J	0.51 J	0.42 J	92.0	< 0.20	< 20.0	0.83 J	1.0 J	< 5.0 UJ	< 2.0	0.59 J	< 20.0	8.5 J	300	47.0	26.0 J	25.0	270	0.010 J
	M001-E	2007 01 (Spring)	2.5	< 5.0	130	< 2.0	< 5.0	< 1.2	0.14 J	< 10.0	< 1.7	43.0	< 0.20	5.4 J	< 20.0	< 5.0	< 5.0	< 5.0	< 3.5	5.8 J	< 18.0	< 100	6.2 J	7.0	42.0	520	< 0.010
		2006 01 (Spring)	2.1	4.1 J	130	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	< 3.0	37.0	< 0.20	6.7 J	< 20.0	< 5.0	< 5.0	2.2 J	1.5 J	4.1 J	< 100	210	5.9	7.0	44.0	540	< 0.010
		2005 02 (Summer)	2.8	2.6 J	130	< 2.0	< 5.0	< 10.0	0.21 J	0.37 J	0.29 J	43.0	< 0.20	5.7 J	1.9 J	1.2 J	< 5.0	0.60 J	0.83 J	13.0 J	< 100	250	6.2	6.6	40.0 J	490	< 0.010
		2005 01 (Spring)	3.0	3.8 J	140	0.30 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	43.0	< 0.20	5.1 J	< 20.0	< 5.0	< 5.0	< 5.0	0.77 J	22.0	99.0 J	200	5.4	5.4	44.0	550	< 0.010
		2004 04 (Winter)	2.4	2.7 J	120	< 2.0	< 5.0	0.81 J	0.15 J	0.34 J	0.24 J	31.0	< 0.20	5.6 J	1.0 J	1.2 J	< 5.0	0.24 J	1.7 J	12.0 J	11.0 J	140	5.2	5.6	43.0	530	< 0.010
		2004 02 (Summer)	2.9	1.0	130	< 1.0	< 1.0	< 10.0	0.18 J	2.6	0.17 J	34.0	< 0.20	5.7	1.6	< 1.0	< 1.0	< 1.0	< 10.0	6.3 J	< 50.0	150	5.1	5.1	43.0	480	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	129	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	40.3	< 0.40	10.3 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	30.5	< 200	168	6.2	7.2	44.3 J	519	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	49.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6760**	< 0.40	**18.8 J**	11.6 J	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	64.8 J	**482**	**963**	137	**5320**	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	126	< 4.0	< 5.0	< 10.0	< 10.0	2.8 J	< 10.0	35.7	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.6 J	< 20.0	< 200	181	5.5	5.8	39.8 J	489 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	122	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	35.6	< 0.40	5.2 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	33.8 J	204	5.3	5.4	36.5 J	470	< 0.10
		2003 01 (Spring)	3.3	< 5.0	130	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	38.0	< 0.20	5.4 J	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	5.8 J	11.0 J	240	5.9	6.1	44.0 J	590	< 0.010
		2002 04 (Winter)	3.1 J	3.3 J	140	< 2.0	< 5.0	< 10.0	0.20 J	0.60 J	0.79 J	34.0	< 0.20	5.2 J	1.4 J	< 5.0	< 5.0	< 2.0	4.0 J	7.0 J	20.0 J	< 260	5.2 J	5.0	39.0	490	< 0.010
		2002 03 (Fall)	2.4 J	< 5.0 UJ	120	< 2.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 3.0	31.0 J	< 0.20	5.0 J	< 20.0 UJ	1.4 J	< 5.0	< 2.0	< 10.0 UJ	< 20.0 UJ	< 100 UJ	160 J	7.7 J	5.5 J	46.0	560	< 0.010
		2002 02 (Summer)	1.8 J	1.3 J	110	0.077 J	< 5.0	0.88 J	0.21 J	0.29 J	0.64 J	32.0 J	< 0.20	< 20.0	0.76 J	1.7 J	< 5.0 UJ	< 2.0	1.2 J	< 20.0	10.0 J	160	5.8	4.8 J	46.0	580	0.050
	M002-A	2007 01 (Spring)	0.93 J	< 5.0	39.0	< 2.0	< 5.0	< 0.76	0.31 J	2.3 J	< 1.7	34.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	7.0 J	15.0 J	< 9.3	< 100	120 J	26.0	12.0	99.0	< 0.010
		2006 01 (Spring)	0.66 J	< 5.0	28.0	< 2.0	< 5.0	1.5 J	0.15 J	< 10.0	< 3.0	15.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.2 J	2.1 J	< 100	< 100	91.0 J	19.0 J	8.2 J	95.0 J	< 0.010
		2005 02 (Summer)	0.29 J	2.7 J	140	< 2.0	< 5.0	< 10.0	2.0	1.5 J	0.30 J	140	< 0.20	1.5 J	4.4 J	1.4 J	< 5.0	< 5.0	2.0 J	6.8 J	< 100	840	**280**	63.0	26.0	280	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
		AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
Well No.	Event																										
FWBZ	M002-A	2005 01 (Spring)	0.52 J	< 5.0	81.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	47.0	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 5.0	1.5 J	14.0 J	86.0 J	< 100	150	45.0	15.0	280	< 0.010
		2004 04 (Winter)	0.42 J	2.7 J	79.0	< 2.0	< 5.0	1.0 J	0.41 J	2.8 J	0.34 J	64.0	< 0.20	2.4 J	10.0 J	4.7 J	< 5.0	< 5.0	2.9 J	8.5 J	17.0 J	370	**170 J**	41.0 J	19.0	310	< 0.010
		2004 02 (Summer)	< 1.0	2.7	96.0	< 1.0	< 1.0	< 10.0	1.1	2.1	0.080 J	75.0	< 0.20	< 5.0	3.8	0.99 J	< 1.0	< 1.0	< 10.0	6.1 J	< 50.0	530	**190**	39.0	22.0	340	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	86.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	97.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	**213**	48.6	17.2 J	305	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	31.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	19.2	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	5.3 J	< 200	< 100	124	21.6	12.6	35.3	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	125	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	< 10.0	188	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	184	**300**	74.0	25.8 J	478 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	102 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	140 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	145 J	**202**	52.0	29.5 J	188 J	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	58.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	77.0	< 0.20	< 20.0	2.7 J	< 5.0	< 5.0	< 1.0	2.2 J	6.4 J	16.0 J	270	130	31.0	16.0 J	180	< 0.010
		2002 04 (Winter)	0.59 J	2.8 J	64.0	< 2.0	< 5.0	< 10.0	0.57 J	2.4 J	0.098 J	30.0	< 0.20	3.0 J	3.1 J	1.6 J	< 5.0	< 2.0	3.3 J	3.5 J	4.7 J	720	130	22.0	12.0	240	< 0.010
		2002 03 (Fall)	0.41 J	< 5.0	110	< 2.0	< 5.0	< 10.0	1.0 J	< 10.0	< 3.0	110	< 0.20	1.4 J	4.1 J	1.4 J	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	900	**250**	46.0	25.0	250	< 0.010
		2002 02 (Summer)	0.29 J	2.6 J	60.0	< 2.0	< 5.0	< 10.0	0.69 J	1.3 J	< 3.0	57.0	< 0.20	2.0 J	2.7 J	1.1 J	< 5.0	< 2.0	< 10.0	0.73 J	8.2 J	390	**160**	26.0 J	15.0	220	< 0.010
	M003-A	2007 01 (Spring)	< 0.44	< 5.0	42.0	< 2.0	< 5.0	< 0.77	0.91 J	0.54 J	< 1.7	< 10.0	< 0.20	4.8 J	< 20.0	< 5.0	< 5.0	< 5.0	4.1 J	0.83 J	< 10.0	< 100	120 J	10.0	2.6	12.0	< 0.010
		2006 01 (Spring)	1.5	13.0	100	< 2.0	< 5.0	< 10.0	0.70 J	< 10.0	< 3.0	< 10.0	< 0.20	4.8 J	< 20.0	< 5.0	1.9 J	< 5.0	15.0	< 20.0	< 100	< 100	110	12.0	2.2	12.0	< 0.010
		2005 02 (Summer)	0.23 J	1.4 J	28.0	< 2.0	< 5.0	< 10.0	0.67 J	0.77 J	< 3.0	6.3 J	< 0.20	4.4 J	2.3 J	1.0 J	< 5.0	< 5.0	2.1 J	12.0 J	< 100	350	100	9.5	3.7 J	11.0	< 0.010
		2005 01 (Spring)	0.58 J	4.0 J	66.0	< 2.0	< 5.0	< 10.0	1.5	< 10.0	< 3.0	27.0	< 0.20	3.8 J	2.2 J	< 5.0	< 5.0	< 5.0	4.6 J	10.0 J	< 100	< 100	120	10.0	2.9	11.0	< 0.010
		2004 04 (Winter)	0.26 J	6.9	30.0	< 2.0	< 5.0	0.24 J	0.99 J	0.59 J	0.12 J	46.0	< 0.20	3.2 J	1.0 J	< 5.0	< 5.0	< 5.0	1.5 J	18.0 J	18.0 J	540	71.0 J	9.2 J	6.6	23.0	< 0.010
		2004 02 (Summer)	0.40 J	3.2	60.0	< 1.0	< 1.0	< 1.0	1.2	0.53 J	< 1.0	27.0	< 0.20	< 5.0	1.8	< 1.0	< 1.0	< 1.0	13.0	< 1.3	< 50.0	190	100	11.0	4.7	14.0	< 0.010
		2004 01 (Spring)	< 5.0	6.7 J	64.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	48.1	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	536	89.6	11.3	6.0 J	15.3	< 0.10
		2003 04 (Winter)	< 5.0	6.4 J	44.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	108	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	214	63.2	12.2	6.2	23.4	< 0.10
		2003 03 (Fall)	< 5.0 UJ	6.9 J	33.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	15.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.8 J	< 20.0	< 200	666	120	10.2	3.4 J	10.6 J	< 0.10
		2003 02 (Summer)	< 50.0	7.7 J	31.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	42.3	< 0.40	5.6 J	< 20.0	< 20.0	< 10.0	< 5.0	1.3 J	2.4 J	< 200	556	104	9.3	3.2	11.5 J	< 0.10
		2003 01 (Spring)	< 1.0	19.0	44.0	< 2.0	< 5.0	< 10.0	1.0 J	3.0 J	< 3.0	67.0	< 0.20	3.4 J	1.2 J	< 5.0	< 5.0	< 1.0	1.4 J	3.1 J	< 100	2100	110	8.7	3.0	13.0	< 0.010
		2002 04 (Winter)	< 50.0	5.9	89.0	< 2.0	< 5.0	< 10.0	0.87 J	0.59 J	0.037 J	13.0	< 0.20	4.6 J	2.3 J	0.66 J	< 5.0	< 2.0	10.0	0.94 J	< 100	600	130	9.8	1.8	14.0	< 0.010
		2002 03 (Fall)	0.34 J	3.0 J	33.0	< 2.0	< 5.0	< 10.0	6.1 J	0.42 J	0.062 J	100	< 0.20	5.1 J	4.6 J	< 5.0	< 5.0	< 2.0	2.9 J	91.0	< 100	1400	120	9.9	3.9	8.9	0.010
		2002 02 (Summer)	0.22 J	< 5.0	30.0	< 2.0	< 5.0	1.0 J	0.97 J	0.25 J	< 3.0	40.0	< 0.20	4.7 J	1.6 J	< 5.0	< 5.0	< 2.0	2.3 J	3.4 J	6.0 J	570	120	9.0	3.5	9.9	< 0.010
	M004-A	2005 02 (Summer)	0.52 J	5.1	14.0	< 2.0	< 5.0	< 10.0	0.81 J	1.2 J	< 3.0	84.0	< 0.20	3.9 J	2.3 J	1.1 J	< 5.0	< 5.0	4.2 J	5.8 J	< 100	220	58.0	26.0	20.0	150	< 0.010
		2004 04 (Winter)	0.41 J	6.0	14.0 J	< 2.0	< 5.0	< 10.0	0.78 J	0.88 J	0.21 J	80.0	< 0.20	2.9 J	2.1 J	< 5.0	< 5.0	< 5.0	3.8 J	1.8 J	< 100	170	61.0	26.0	22.0	170	< 0.010
		2004 02 (Summer)	0.54 J	5.4	14.0	< 1.0	< 1.0	< 1.0	0.93 J	1.0	< 1.0	110	< 0.20	3.8 J	1.7	< 1.0	< 1.0	< 1.0	5.7 J	4.3	< 50.0	160	72.0	29.0	21.0	180	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	16.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	125	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	7.9 J	< 200	224	72.8	30.7	23.3	189	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	11.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	124	< 0.40	< 50.0	2.1 J	< 20.0	< 10.0	< 5.0	3.4 J	4.6 J	< 200	36.7 J	65.8	28.0	22.7	135 J	< 0.10
		2002 04 (Winter)	< 50.0	3.7 J	10.0	< 2.0	< 5.0	< 10.0	0.19 J	2.9 J	0.036 J	0.33 J	< 0.20	5.4 J	2.2 J	0.71 J	< 5.0	< 2.0	5.5 J	0.72 J	4.9 J	360	70.0	28.0	15.0	120	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																Common Rock-forming Elements						Cyanide
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
			BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M004-A	2002 02 (Summer)		0.37 J	4.6 J	16.0	< 2.0	< 5.0	0.95 J	1.1 J	0.52 J	< 3.0	98.0	< 0.20	2.4 J	2.0 J	0.81 J	0.27 J	< 2.0	3.4 J	2.3 J	< 100	140	64.0	34.0 J	25.0	240	< 0.010
	M006-A	2007 01 (Spring)		< 1.0	0.84 J	52.0	< 2.0	< 5.0	< 0.71	0.12 J	1.8 J	< 3.0	160	< 0.20	0.50 J	7.3 J	< 5.0	< 5.0	< 5.0	< 2.0	< 20.0	38.0 J	39.0 J	84.0	13.0	8.0	23.0	< 0.010
		2006 01 (Spring)		< 1.0	6.5	73.0	< 2.0	< 5.0	< 10.0	0.37 J	2.9 J	< 3.0	440	0.14 J	< 20.0	9.6 J	< 5.0	1.6 J	1.8 J	< 10.0	< 20.0	< 100	190	96.0	15.0	7.6	19.0	< 0.010
		2005 02 (Summer)		< 1.0	2.3 J	69.0	< 2.0	< 5.0	< 10.0	0.30 J	1.3 J	< 3.0	320	< 0.20	0.60 J	6.8 J	0.41 J	< 5.0	< 5.0	0.60 J	3.3 J	< 100	530	79.0	17.0	13.0	34.0	< 0.010
		2004 04 (Winter)		< 1.0	2.3 J	110	< 2.0	< 5.0	< 10.0	0.36 J	0.99 J	0.36 J	890	< 0.20	< 20.0	4.0 J	< 5.0	< 5.0	< 5.0	0.58 J	4.6 J	< 100	1900	89.0	24.0	16.0	55.0	< 0.010
		2004 02 (Summer)		0.20 J	1.7	93.0	< 1.0	< 1.0	< 1.0	0.49 J	1.1	< 1.0	810	< 0.20	< 5.0	6.5	< 1.0	< 1.0	< 1.0	< 10.0	25.0	< 50.0	1500	110	20.0	12.0	25.0	< 0.010
		2003 04 (Winter)		2.7 J	< 50.0	113	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	998	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	2690	115 J	23.0	14.2	33.2	< 0.10
		2003 02 (Summer)		< 50.0	< 50.0	121	< 4.0	< 5.0	< 10.0	< 10.0	2.2 J	< 10.0	608	< 0.40	< 50.0	11.4 J	< 20.0	< 10.0	< 5.0	< 50.0	2.6 J	< 200	828	118	24.8	14.7	36.3 J	< 0.10
		2002 04 (Winter)		< 50.0	2.5 J	180	< 2.0	< 5.0	< 10.0	1.1 J	1.3 J	0.12 J	1500	< 0.20	0.47 J	9.4 J	< 5.0	< 5.0	< 2.0	< 10.0	7.2 J	< 100	1900	150	34.0	17.0	39.0	< 0.010
		2002 02 (Summer)		0.077 J	2.8 J	110	< 2.0	< 5.0	< 10.0	0.36 J	0.79 J	< 3.0	910 J	0.061 J	0.51 J	6.6 J	< 5.0	< 5.0	< 2.0	< 10.0	16.0 J	< 100	1400	97.0	24.0 J	12.0	31.0	-
	M007-A	2007 01 (Spring)		< 0.18	12.0	26.0	< 2.0	< 5.0	< 0.89	0.17 J	0.84 J	< 1.1	630	0.047 J	2.1 J	2.6 J	< 5.0	< 5.0	< 5.0	5.4 J	< 20.0	< 7.9	310	18.0	13.0	16.0	140	< 0.010
		2005 02 (Summer)		0.21 J	17.0	22.0	< 2.0	< 5.0	1.2 J	0.15 J	0.66 J	< 3.0	400	< 0.20	< 20.0	1.9 J	0.62 J	< 5.0	< 5.0	1.8 J	9.8 J	< 100	490	14.0	7.8	14.0	130	< 0.010
		2004 04 (Winter)		< 1.0	18.0	16.0 J	< 2.0	< 5.0	< 10.0	0.20 J	0.54 J	0.21 J	580	< 0.20	< 20.0	1.9 J	< 5.0	< 5.0	< 5.0	2.1 J	3.6 J	< 100	230	19.0	12.0	13.0	140	< 0.010
		2004 02 (Summer)		0.14 J	19.0	13.0	< 1.0	< 1.0	< 1.1	0.18 J	0.72 J	0.11 J	390	< 0.20	2.3 J	1.9	< 1.0	< 1.0	0.31 J	< 2.8	5.0	5.1 J	170	14.0	7.9	11.0	170	< 0.010
		2003 04 (Winter)		< 5.0	**22.1 J**	18.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	802	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	29.7	< 200	255	24.3	13.2	10.8	97.5	< 0.10
		2003 02 (Summer)		< 50.0	19.2 J	14.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	459	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 5.0	2.4 J	2.5 J	< 200	271	13.8	8.0	12.5	119 J	< 0.10
		2002 04 (Winter)		< 50.0	16.0	12.0	< 2.0	< 5.0	< 10.0	0.16 J	0.83 J	0.094 J	420	< 0.20	2.2 J	1.8 J	< 5.0	< 5.0	< 2.0	4.2 J	2.7 J	5.3 J	260	15.0	5.9	9.7	170	< 0.010
		2002 02 (Summer)		0.081 J	19.0	17.0	< 2.0	< 5.0	1.2 J	0.20 J	0.49 J	< 3.0	570 J	< 0.20	1.2 J	1.4 J	< 5.0	< 5.0	< 2.0	2.6 J	0.53 J	4.0 J	230	17.0	8.3	10.0	110	< 0.010
	M025-A	2007 01 (Spring)		< 0.26	< 0.84	260 J	< 2.0	< 5.0	< 0.84	0.12 J	0.70 J	< 3.0	23.0 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	6.8 J	< 20.0	< 8.1	< 34.0	12.0 J	18.0	14.0	250	< 0.010
		2006 01 (Spring)		0.65 J	< 5.0	370	< 2.0	< 5.0	0.93 J	0.11 J	< 10.0	< 3.0	530	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.4 J	12.0 J	< 100	110 J	15.0 J	11.0 J	9.0 J	67.0 J	< 0.010
		2005 02 (Summer)		2.5	2.5 J	**620**	< 2.0	< 5.0	1.3 J	0.36 J	1.3 J	< 3.0	350	< 0.20	0.65 J	3.1 J	4.6 J	< 5.0	0.35 J	0.80 J	28.0	< 100	1000	**260**	330	73.0	1700	< 0.010
		2005 01 (Spring)		9.8	4.2 J	**570**	< 2.0	< 5.0	0.99 J	< 1.0	< 10.0	< 3.0	59.0	< 0.20	12.0 J	< 20.0	< 5.0	< 5.0	< 5.0	1.0 J	17.0 J	96.0 J	< 100	28.0	27.0	15.0	260	< 0.010
		2004 04 (Winter)		1.3	4.3 J	220	< 2.0	< 5.0	0.73 J	0.36 J	2.7 J	0.15 J	290	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	1.2 J	8.6 J	8.5 J	500	**250**	**460**	130	3100	< 0.010
		2004 02 (Summer)		2.9	< 3.3	**840**	< 1.0	< 1.0	< 1.0 UJ	0.27 J	0.41 J	0.075 J	170	< 0.20	3.5 J	1.0 J	3.1 J	< 1.0	< 1.0	< 10.0	8.4	9.8 J	< 100	120	170	52.0	1000	< 0.010
		2004 01 (Spring)		< 5.0	< 50.0	200	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	18.7	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	11.1 J	< 200	86.9 J	11.5	13.0	14.8 J	261	< 0.10
		2003 04 (Winter)		< 5.0	< 50.0	164	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	176	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	74.0 J	139	281	103	2550	< 0.10
		2003 03 (Fall)		< 5.0 UJ	< 50.0 UJ	285	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	< 10.0	595	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	134	**334**	**785**	**427 J**	375	< 0.10
		2003 02 (Summer)		< 50.0	< 50.0	**958**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	71.7	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.2 J	< 20.0	< 200	75.2 J	52.6	77.3	36.6	546 J	< 0.10
		2003 01 (Spring)		< 1.0	< 5.0	130	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	18.0	< 0.20	1.9 J	< 20.0	< 5.0	< 5.0	< 1.0	4.1 J	2.1 J	12.0 J	55.0 J	10.0	17.0	18.0 J	390	< 0.010
		2002 04 (Winter)		2.9 J	4.1 J	< 180	< 2.0	< 5.0	< 10.0	0.39 J	1.6 J	0.12 J	130	< 0.20	1.5 J	3.5 J	**11.0**	0.056 J	< 2.0	< 10.0	19.0 J	17.0 J	570	**160**	230	66.0	1900	< 0.010
		2002 03 (Fall)		0.20 J	< 5.0	250	< 2.0	< 5.0	< 10.0	0.47 J	< 10.0	< 3.0	650	< 0.20	0.83 J	3.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	920	**360**	**750**	**180**	**4700**	0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M025-A	2002 02 (Summer)	4.1 J	1.7 J	**800**	0.10 J	0.056 J	2.3 J	< 10.0	0.95 J	0.30 J	350	< 0.20	< 20.0	0.82 J	**12.0**	< 5.0	< 2.0	1.7 J	< 20.0	5.8 J	390	140	240	62.0	1100	< 0.010
	M026-A	2007 01 (Spring)	0.41 J	5.6	31.0	< 2.0	0.18 J	1.3 J	< 1.0	1.7 J	< 3.0	2.2 J	< 0.20	3.5 J	1.8 J	0.29 J	< 5.0	< 5.0	6.3 J	< 20.0	18.0 J	29.0 J	**250**	**470**	130	3200	< 0.010
		2006 01 (Spring)	< 1.0	11.0	22.0	< 2.0	< 5.0	< 10.0	0.31 J	7.5 J	< 3.0	1100	< 0.20	2.3 J	< 20.0	< 5.0	2.7 J	3.3 J	2.0 J	< 20.0	< 100	93.0 J	140	68.0	35.0	220	< 0.010
		2005 02 (Summer)	0.96 J	5.5	45.0	< 2.0	< 5.0	1.3 J	0.52 J	4.7 J	< 3.0	1.9 J	< 0.20	9.1 J	3.8 J	**17.0 J**	0.073 J	0.26 J	3.3 J	**47.0**	13.0 J	850	**270**	**710**	**220**	**6100**	< 0.010
		2004 04 (Winter)	0.57 J	< 5.0	41.0 J	< 2.0	< 5.0	3.2 J	0.92 J	7.9 J	0.29 J	23.0	0.055 J	7.3 J	7.0 J	4.7 J	< 5.0	< 5.0	1.9 J	23.0	< 100	920	**380**	**1100**	**330**	**8400**	< 0.010
		2004 02 (Summer)	0.67 J	8.0	40.0	< 2.0	< 5.0	< 10.0	0.29 J	2.9 J	0.13 J	< 10.0	< 0.20	12.0 J	< 20.0	< 1.0	< 5.0	< 1.0	6.3 J	< 20.0	2.4 J	< 100	**280**	**800**	**260**	**6200**	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	20.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	**38.5 J**	< 20.0	< 20.0	< 10.0	< 25.0	5.4 J	< 20.0	< 200	< 100	**327**	**853**	**348**	**7630**	< 0.10
		2003 02 (Summer)	< 50.0	9.7 J	42.0 J	< 4.0	1.0 J	< 10.0	1.6 J	4.0 J	< 10.0	25.1	< 0.40	6.5 J	2.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**300**	**839**	**273**	**5990 J**	< 0.10
		2002 04 (Winter)	0.48 J	7.9	4.9 J	< 2.0	< 5.0	< 10.0	0.27 J	5.5 J	0.099 J	180	< 0.20	5.8 J	1.8 J	6.3	< 5.0	< 2.0	6.5 J	6.9 J	4.9 J	< 360	110	140	56.0	1300	< 0.010
		2002 02 (Summer)	0.79 J	5.8	46.0	< 2.0	< 5.0	1.8 J	< 10.0	4.8 J	< 3.0	23.0	0.14 J	7.3 J	2.5 J	**10.0**	0.53 J	< 2.0	3.2 J	< 20.0	3.5 J	490	**310**	**820**	**240**	**6700**	< 0.010
	M026-E	2005 02 (Summer)	< 1.0	7.0	500	< 2.0	< 5.0	1.4 J	0.39 J	1.0 J	< 3.0	1100	< 0.20	3.7 J	2.4 J	3.6 J	< 5.0	< 5.0	0.65 J	34.0	< 100	2700	130	150	56.0	1400	< 0.010
		2004 04 (Winter)	< 1.0	1.7 J	240	< 2.0	< 5.0	< 10.0	0.88 J	3.4 J	0.18 J	**2900**	< 0.20	2.9 J	4.1 J	< 5.0	< 5.0	< 5.0	< 10.0	15.0 J	< 100	**6800**	**540**	**730**	**180**	**4600**	< 0.010
		2004 02 (Summer)	< 1.0	6.3	150	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 1.0	820	< 0.20	< 20.0	< 20.0	5.4	< 5.0	< 1.0	< 10.0	< 20.0	3.4 J	1700	77.0	140	56.0	1400	< 0.010
		2003 04 (Winter)	< 5.0	4.6 J	218	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3120**	< 0.40	11.3 J	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**6810**	**483**	**900**	**295**	**7090**	< 0.10
		2003 02 (Summer)	< 50.0	7.3 J	111	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	< 10.0	741	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	2.9 J	< 200	1300	78.4	126	56.8	1140 J	< 0.10
		2002 04 (Winter)	0.13 J	13.0	200	< 2.0	< 5.0	< 10.0	1.2 J	2.5 J	0.058 J	**2900**	< 0.20	1.4 J	3.0 J	**22.0**	< 5.0	< 2.0	< 10.0	< 20.0	3.1 J	4600	**380**	**620**	**160**	**4200**	< 0.010
		2002 02 (Summer)	0.091 J	6.0	120	< 2.0	< 5.0	2.7 J	< 10.0	0.81 J	< 3.0	860	0.052 J	< 20.0	1.1 J	7.0	0.055 J	< 2.0	1.7 J	< 20.0	< 100	1800	110	180	55.0	1600	< 0.010
	M027-A	2007 01 (Spring)	8.5	2.9 J	180	< 2.0	1.3 J	< 0.71	0.31 J	1.8 J	< 1.1	310	< 0.20	2.0 J	1.7 J	< 5.0	< 5.0	< 5.0	4.3 J	19.0 J	< 7.7	380	88.0	51.0	38.0	480	< 0.010
		2006 01 (Spring)	9.6	2.9 J	48.0	< 2.0	**5.1**	< 10.0	< 1.0	7.8 J	< 3.0	20.0	< 0.20	2.4 J	1.6 J	< 5.0	< 5.0	2.1 J	0.95 J	**51.0**	< 100	110	94.0	53.0	27.0	110	< 0.010
		2005 02 (Summer)	5.8	3.7 J	180	< 2.0	1.1 J	0.98 J	0.38 J	1.8 J	0.25 J	240	< 0.20	2.2 J	3.0 J	1.3 J	< 5.0	< 5.0	1.7 J	27.0	< 100	420	99.0	43.0	38.0	530	< 0.010
		2005 01 (Spring)	10.0	< 5.0	57.0	< 2.0	**4.0 J**	< 10.0	< 1.0	< 10.0	< 3.0	70.0	< 0.20	1.9 J	2.5 J	< 5.0	< 5.0	< 5.0	0.99 J	26.0	92.0 J	82.0 J	90.0	53.0	29.0	150	< 0.010
		2004 04 (Winter)	2.5	3.5 J	180	< 2.0	< 5.0	< 10.0	0.32 J	0.97 J	0.079 J	330	0.050 J	2.8 J	2.1 J	< 5.0	< 5.0	< 5.0	1.6 J	7.9 J	< 100	690	93.0	51.0	43.0	620	< 0.010
		2004 02 (Summer)	5.0	4.6	160	< 1.0	0.78 J	< 1.0	0.29 J	0.99 J	0.18 J	270	< 0.20	< 5.0	2.0	1.3	< 1.0	< 1.0	5.5 J	4.0	< 50.0	710	88.0	49.0	42.0	620	< 0.010
		2004 01 (Spring)	4.6 J	< 50.0	165	< 4.0	2.1 J	< 10.0	< 10.0	< 10.0	< 10.0	385	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	8.0 J	< 200	1380	113	50.9	43.5 J	516	< 0.10
		2003 04 (Winter)	< 5.0	4.3 J	231	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	447	**0.24 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	285	107	60.2	52.5	769	< 0.10
		2003 03 (Fall)	2.9 J	6.5 J	138	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	303	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	395	103	47.4	28.8 J	275 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	233	< 4.0	< 5.0	< 10.0	< 10.0	1.9 J	< 10.0	436	< 0.40	< 50.0	2.2 J	< 20.0	< 10.0	< 5.0	< 50.0	8.5 J	< 200	959	120	63.7	43.3	524 J	< 0.10
		2003 01 (Spring)	2.7	4.6 J	250	< 2.0	2.6 J	< 10.0	< 10.0	2.9 J	< 3.0	490	< 0.20	2.3 J	< 20.0	2.7 J	< 5.0	< 1.0	< 10.0	10.0 J	< 100	1600	120	55.0	43.0 J	760	< 0.010
		2002 04 (Winter)	13.0 J	< 5.0	97.0	< 2.0	3.2 J	< 10.0	0.21 J	5.2 J	0.058 J	63.0	< 0.20	1.7 J	2.1 J	0.65 J	< 5.0	< 2.0	< 10.0	22.0 J	< 100	< 340	100	53.0	33.0	130	< 0.010
		2002 03 (Fall)	2.2 J	< 5.0	180	< 2.0	0.50 J	< 10.0	< 10.0	< 10.0	< 3.0	420	< 0.20	2.4 J	< 20.0	0.88 J	< 5.0	< 2.0	< 10.0	< 20.0	< 100	700	110	55.0	44.0	370	< 0.010
		2002 02 (Summer)	2.2 J	2.8 J	190	< 2.0	0.58 J	0.96 J	< 10.0	< 10.0	< 3.0	390	< 0.20	< 20.0	1.6 J	1.9 J	-	< 2.0	0.74 J	6.3 J	< 100	900	97.0	57.0	42.0	370	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M028-A	2007 01 (Spring)	< 0.23	1.6 J	160	< 2.0	< 5.0	< 0.74	0.11 J	4.4 J	< 1.1	100	< 0.20	0.99 J	1.2 J	< 5.0	< 5.0	< 5.0	3.0 J	< 20.0	60.0 J	1800	72.0	32.0	22.0	57.0	-
		2006 01 (Spring)	2.6	5.2	83.0	< 2.0	< 5.0	< 10.0	0.30 J	3.0 J	< 3.0	120	< 0.20	3.2 J	10.0 J	< 5.0	1.5 J	< 5.0	< 10.0	**51.0**	< 100	240	95.0	29.0	19.0	< 50.0	-
		2005 02 (Summer)	< 1.0	5.5	120	< 2.0	< 5.0	0.93 J	0.48 J	0.34 J	< 3.0	350	< 0.20	0.49 J	0.84 J	1.3 J	< 5.0	< 5.0	0.51 J	19.0 J	6.1 J	4100	65.0	27.0	29.0	69.0	< 0.010
		2005 01 (Spring)	1.6	< 5.0	110	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	120	< 0.20	2.5 J	7.9 J	< 5.0	< 5.0	5.8	< 10.0	**41.0**	86.0 J	1100	100	34.0	19.0	71.0	< 0.010
		2004 04 (Winter)	0.11 J	3.6 J	150	< 2.0	< 5.0	0.43 J	0.30 J	1.4 J	0.33 J	450	< 0.20	0.30 J	1.5 J	< 5.0	< 5.0	< 5.0	0.62 J	4.5 J	5.2 J	5800	100 J	37.0 J	31.0	91.0	< 0.010
		2004 02 (Summer)	< 1.0	6.9	110	< 1.0	< 1.0	< 10.0	0.46 J	1.1	0.10 J	450	< 0.20	< 5.0	1.3	< 1.0	< 1.0	< 1.0	< 10.0	13.0 J	< 50.0	5700	68.0	28.0	31.0	70.0	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	107	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	3.6 J	199	< 0.40	< 50.0	**53.7**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	12.1 J	< 200	2380	91.0	32.3	23.4 J	71.1	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	161	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	405	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	6560	107	39.3	32.3	81.4	< 0.10
		2003 03 (Fall)	< 5.0 UJ	21.2 J	190	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1050	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**17100**	127	41.0	35.8 J	88.9 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	106	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	274	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	3900	50.5	26.9	32.7 J	71.4	< 0.10
		2003 01 (Spring)	< 1.0	5.6	120	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	240	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	15.0 J	110	3500	75.0	32.0	26.0 J	76.0	< 0.010
		2002 04 (Winter)	5.9 J	< 5.0	91.0	< 2.0	3.5 J	< 10.0	0.16 J	12.0	0.43 J	25.0	< 0.20	2.2 J	8.7 J	< 0.35 J	< 5.0	< 2.0	< 10.0	**100 J**	3.4 J	< 270	100	34.0	23.0	78.0	< 0.010
		2002 03 (Fall)	0.20 J	14.0	240	< 2.0	< 5.0	< 10.0	0.53 J	< 10.0	< 3.0	810	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**12000**	100	41.0	47.0	88.0	< 0.010
		2002 02 (Summer)	0.17 J	4.7 J	170	< 2.0	< 5.0	2.2 J	< 10.0	0.59 J	< 3.0	350	< 0.20	< 20.0	0.48 J	0.63 J	< 5.0	< 2.0	0.47 J	< 20.0	< 100	4700	67.0	30.0	33.0	74.0	< 0.010
	M028-E	2007 01 (Spring)	0.53 J	< 5.0	140 J	< 2.0	< 5.0	< 10.0	0.73 J	0.45 J	< 0.18	**2200**	< 0.20	< 0.23	< 20.0	< 5.0	< 5.0	< 5.0	< 2.6	< 20.0	< 20.0	**19000**	**160 J**	39.0	41.0	88.0	< 0.010
		2006 01 (Spring)	0.57 J	21.0	76.0	< 2.0	< 5.0	0.98 J	1.1	< 10.0	< 3.0	1100	< 0.20	1.4 J	< 20.0	2.1 J	< 5.0	1.2 J	1.4 J	< 20.0	< 100	**10000**	87.0	22.0	30.0	68.0	< 0.010
		2005 02 (Summer)	0.36 J	39.0	190	< 2.0	< 5.0	< 10.0	1.3	0.47 J	< 3.0	1400	< 0.20	0.33 J	1.4 J	1.3 J	< 5.0	< 5.0	0.57 J	5.2 J	< 100	**20000**	120	37.0	43.0	290	< 0.010
		2005 01 (Spring)	0.41 J	21.0	100	< 2.0	< 5.0	1.1 J	< 1.0	< 10.0	< 3.0	1400	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	6.1	< 10.0	< 20.0	92.0 J	**16000**	130	31.0	35.0	61.0	< 0.010
		2004 04 (Winter)	0.43 J	31.0	230	< 2.0	< 5.0	1.1 J	0.93 J	1.0 J	0.62 J	**2200**	< 0.20	0.23 J	2.0 J	< 5.0	< 5.0	< 5.0	0.62 J	8.3 J	0.83 J	**27000**	**170 J**	46.0 J	48.0	190	< 0.010
		2004 02 (Summer)	0.52 J	39.0	200	< 1.0	< 1.0	< 1.1	1.1	0.63 J	0.077 J	**1800**	< 0.20	< 5.0	1.6	< 1.0	< 1.0	0.40 J	< 10.0	< 1.9	< 50.0	**21000**	150	42.0	46.0	300	< 0.010
		2004 01 (Spring)	< 5.0	21.3 J	123	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1690	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	12.1 J	< 200	**18400**	143	36.7	40.9 J	65.3	< 0.10
		2003 04 (Winter)	< 5.0	31.5 J	200	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1720	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**22300**	142	38.5	45.3	187	< 0.10
		2003 03 (Fall)	< 5.0 UJ	47.7 J	273	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2030**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**26200**	**171**	53.0	49.7 J	419 J	< 0.10
		2003 02 (Summer)	< 50.0	38.2 J	173	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1790**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**21700**	143	38.4	60.2 J	140	< 0.10
		2003 01 (Spring)	< 1.0	27.0	170	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**1900**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	2.5 J	< 100	**22000**	**160**	42.0	44.0	67.0	< 0.010
		2002 04 (Winter)	0.34 J	20.0	140	< 2.0	< 5.0	< 10.0	0.72 J	0.52 J	0.078 J	1700	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	7.4 J	34.0 J	**18000**	130	35.0	42.0	79.0	< 0.010
	M029-A	2007 01 (Spring)	< 0.32	1.5 J	210	< 2.0	0.089 J	< 0.63	0.20 J	0.78 J	< 1.1	66.0	< 0.20	0.84 J	0.77 J	< 5.0	0.11 J	0.48 J	3.2 J	3.3 J	72.0 J	470	26.0	44.0	25.0	140	< 0.010
		2006 01 (Spring)	< 1.0	2.5 J	190	< 2.0	< 5.0	< 10.0	0.12 J	< 10.0	< 3.0	76.0	0.13 J	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	290	24.0	39.0	21.0	< 50.0	< 0.010
		2005 02 (Summer)	< 1.0	1.4 J	180	< 2.0	< 5.0	< 10.0	0.11 J	0.34 J	< 3.0	85.0	< 0.20	0.79 J	0.70 J	0.51 J	< 5.0	< 5.0	0.36 J	8.7 J	< 100	430	24.0	47.0	27.0 J	150	< 0.010
		2005 01 (Spring)	0.23 J	< 5.0	170	0.28 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	59.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	14.0 J	120	400	22.0	41.0	21.0	120	< 0.010
		2004 04 (Winter)	< 1.0	2.2 J	250	< 2.0	< 5.0	0.59 J	0.099 J	1.0 J	0.27 J	57.0	< 0.20	0.53 J	0.64 J	< 5.0	< 5.0	< 5.0	0.91 J	7.5 J	43.0 J	250	24.0 J	55.0 J	33.0	200	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	NA	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
		AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
	Well No.	Event																									
FWBZ	M029-A	2004 02 (Summer)	< 1.0	2.2	190	< 1.0	< 1.0	< 10.0	0.11 J	0.97 J	0.10 J	57.0	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 20.0	< 50.0	320	23.0	49.0	29.0	170	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	179	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	61.5 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	346 J	25.2 J	46.1	26.1	152	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	241	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	69.1	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	164	26.2	61.1	36.1	202	< 0.10
		2003 03 (Fall)	< 5.0	< 50.0	220	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	60.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	48.7 J	165	23.4	54.1	38.3 J	148	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	226	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	55.3	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	68.4 J	246	24.6	52.8	36.3 J	140	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	220	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	55.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	36.0 J	300	23.0	56.0	28.0 J	150	< 0.010
		2002 04 (Winter)	0.34 J	< 5.0	200	< 2.0	< 5.0	< 10.0	0.14 J	0.59 J	0.081 J	64.0	< 0.20	0.79 J	1.7 J	< 5.0	< 5.0	< 2.0	< 10.0	4.5 J	39.0 J	< 300	23.0	41.0	25.0	150	< 0.010
		2002 03 (Fall)	< 50.0	< 5.0	220	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	51.0	< 0.20	0.64 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	190	20.0	50.0	30.0	170	< 0.010
		2002 02 (Summer)	0.054 J	0.71 J	260	< 2.0	< 5.0	0.66 J	0.081 J	0.19 J	< 3.0	49.0	< 0.20	< 20.0	0.21 J	0.55 J	< 5.0 UJ	< 2.0	0.17 J	< 20.0	34.0 J	230	23.0	52.0 J	30.0	180	0.030
	M029-E	2005 02 (Summer)	< 1.0	1.8 J	330	< 2.0	< 5.0	0.80 J	0.087 J	0.52 J	< 3.0	27.0	< 0.20	0.79 J	0.58 J	0.73 J	< 5.0	< 5.0	0.25 J	23.0	6.4 J	500	24.0	28.0	21.0	180	< 0.010
		2004 04 (Winter)	0.14 J	1.7 J	510	< 2.0	< 5.0	0.49 J	< 1.0	< 10.0	< 3.0	35.0	< 0.20	0.56 J	0.32 J	2.2 J	< 5.0	1.1 J	0.77 J	5.4 J	2.7 J	500	32.0 J	38.0 J	26.0	250	< 0.010
		2004 02 (Summer)	< 1.0	2.5	360	< 1.0	< 1.0	< 10.0	0.085 J	1.2	0.11 J	24.0	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	4.5 J	< 50.0	440	22.0	28.0	22.0	210	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	474	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	36.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	375	31.3	41.6	32.0	326	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	430	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	30.5	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	398 J	28.0	37.0	34.6	179	< 0.10
		2002 04 (Winter)	0.25 J	< 5.0	310	< 2.0	< 5.0	< 10.0	0.057 J	0.44 J	0.051 J	24.0	0.095 J	0.89 J	0.16 J	0.41 J	< 5.0	< 2.0	< 10.0	0.92 J	5.2 J	< 290	19.0	27.0	22.0	220	< 0.010
		2002 02 (Summer)	0.077 J	0.80 J	390	< 2.0	< 5.0	0.47 J	0.049 J	0.088 J	< 3.0	25.0	< 0.20	< 20.0	0.23 J	1.2 J	< 5.0 UJ	< 2.0	0.11 J	< 20.0	< 100	280	23.0	33.0 J	26.0	270	0.030
	M030-A	2007 01 (Spring)	1.8	3.2 J	25.0	< 2.0	0.096 J	< 1.1	0.099 J	2.7 J	< 3.0	23.0	< 0.20	1.9 J	9.8 J	0.30 J	< 5.0	< 5.0	9.3 J	15.0 J	< 14.0	35.0 J	34.0	10.0	3.6	32.0	< 0.010
		2006 01 (Spring)	2.8	5.5	30.0	< 2.0	< 5.0	< 10.0	0.14 J	7.9 J	< 3.0	< 10.0	< 0.20	2.1 J	16.0 J	< 5.0	< 5.0	< 5.0	2.3 J	18.0 J	< 100	< 100	42.0	10.0	3.5	13.0	< 0.010
		2005 02 (Summer)	0.61 J	3.2 J	26.0	< 2.0	< 5.0	< 10.0	0.40 J	1.4 J	< 3.0	42.0	< 0.20	1.3 J	6.4 J	0.90 J	< 5.0	< 5.0	2.9 J	15.0 J	< 100	150	31.0	8.2	7.0	11.0	< 0.010
		2005 01 (Spring)	1.9	< 5.0	32.0	0.44 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	10.0	< 0.20	< 20.0	16.0 J	< 5.0	< 5.0	< 5.0	2.1 J	18.0 J	< 100	< 100	49.0	13.0	4.7	16.0	< 0.010
		2004 04 (Winter)	0.49 J	4.1 J	27.0	< 2.0	< 5.0	0.38 J	0.14 J	1.5 J	0.22 J	57.0	< 0.20	1.5 J	4.0 J	1.7 J	< 5.0	< 5.0	4.0 J	6.6 J	3.5 J	74.0 J	29.0 J	8.0 J	6.6	23.0	< 0.010
		2004 02 (Summer)	0.61 J	4.4	27.0	< 1.0	< 1.0	< 1.0	0.23 J	2.6	0.12 J	30.0	< 0.20	< 5.0	4.5	< 1.0	< 1.0	< 1.0	< 10.0	5.3	< 50.0	74.0	31.0	7.4	6.8	16.0	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	39.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	5.2 J	< 200	< 100	48.1	12.8	6.2 J	12.7	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	34.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5.2 J	< 0.40	< 50.0	34.1	< 20.0	< 10.0	< 5.0 UJ	5.9 J	17.9 J	< 200	< 100	42.5	12.9	4.9	17.0	< 0.10
		2003 03 (Fall)	< 5.0	7.0 J	30.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	25.6	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 5.0	3.8 J	< 20.0	< 200	< 100	34.2	8.2	6.9 J	16.9	< 0.10
		2003 02 (Summer)	< 50.0	6.1 J	25.5 J	< 4.0	< 5.0	< 10.0	< 10.0	2.0 J	< 10.0	4.4 J	< 0.40	< 50.0	3.2 J	< 20.0	< 10.0	< 5.0	5.9 J	< 20.0	< 200	< 100	28.9	6.8	5.7	13.6 J	< 0.10
		2003 01 (Spring)	2.7	< 5.0	30.0	< 2.0	< 5.0	< 10.0	< 10.0	5.2 J	< 3.0	< 10.0	< 0.20	< 20.0	8.3 J	< 5.0	< 5.0	< 1.0	3.2 J	6.8 J	12.0 J	100	40.0	9.1	4.3 J	13.0	< 0.010
		2002 04 (Winter)	< 50.0	2.6 J	26.0	< 2.0	< 5.0	< 10.0	0.59 J	4.8 J	0.36 J	2.7 J	< 0.20	1.8 J	7.4 J	0.46 J	< 5.0	< 2.0	4.4 J	11.0 J	27.0 J	250	36.0	8.6	3.7	15.0	< 0.010
		2002 03 (Fall)	0.72 J	< 5.0	33.0	< 2.0	< 5.0	< 10.0	< 10.0	5.3 J	< 3.0	29.0	< 0.20	2.2 J	2.6 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	< 110	33.0	8.5	8.9	< 17.0	< 0.010
		2002 02 (Summer)	0.89 J	2.2 J	26.0	< 2.0	< 5.0	0.22 J	0.042 J	1.4 J	< 3.0	1.7 J	< 0.20	< 20.0	2.5 J	0.36 J	< 5.0 UJ	< 2.0	3.1 J	< 20.0	3.4 J	57.0 J	30.0	6.2	6.9	17.0	0.020
	M031-A	2007 01 (Spring)	< 0.34	4.8 J	68.0 J	< 2.0	< 5.0	< 0.80	0.28 J	4.2 J	< 0.14	610 J	< 0.20	< 20.0	3.5 J	< 5.0	< 5.0	< 5.0	8.2 J	110	< 100	61.0 J	71.0 J	19.0	11.0	38.0	< 0.010

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
		AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
	Well No.	Event																									
FWBZ	M031-A	2006 01 (Spring)	0.25 J	4.6 J	52.0	< 2.0	3.5 J	0.63 J	1.1	3.9 J	< 3.0	310	< 0.20	2.6 J	4.8 J	< 5.0	< 5.0	1.1 J	2.2 J	1200	< 100	860	52.0	10.0	6.3	21.0	< 0.010
		2005 02 (Summer)	< 1.0	3.8 J	36.0	< 2.0	< 5.0	< 10.0	0.16 J	0.40 J	< 3.0	240	< 0.20	3.7 J	2.0 J	0.35 J	< 5.0	< 5.0	1.0 J	7.4 J	< 100	550	34.0	15.0	16.0	41.0	< 0.010
		2005 01 (Spring)	< 1.0	< 5.0	36.0	< 2.0	0.79 J	< 10.0	< 1.0	< 10.0	< 3.0	300	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	1.7 J	75.0	< 100	< 100	36.0	13.0 J	11.0	62.0	< 0.010
		2004 04 (Winter)	< 1.0	3.5 J	39.0 J	< 2.0	< 5.0	< 10.0	0.20 J	2.9 J	0.11 J	360	< 0.20	3.6 J	2.5 J	< 5.0	< 5.0	< 5.0	1.8 J	5.6 J	< 100	260	54.0	17.0	16.0	56.0	< 0.010
		2004 02 (Summer)	0.12 J	3.9	32.0	< 1.0	< 1.0	< 1.0	0.18 J	1.8	0.10 J	460	0.066 J	3.7 J	2.0	< 1.0	< 1.0	< 1.0	< 10.0	9.4	< 50.0	450	43.0	14.0	14.0	48.0	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	30.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	529 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.7 J	< 200	92.2 J	49.7 J	14.2	10.8	42.0	< 0.10
		2003 04 (Winter)	< 5.0	4.3 J	53.9 J	< 4.0	< 5.0	< 10.0	< 10.0	13.3	< 10.0	257	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	137	86.6	20.7	15.9	63.6	< 0.10
		2003 03 (Fall)	< 5.0	< 50.0	44.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	284	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	193	42.6	18.4	21.1 J	73.9	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	34.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	493	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	447	48.5	16.6	16.9 J	63.2	< 0.10
		2003 01 (Spring)	1.0	3.8 J	< 31.0	0.87 J	0.96 J	1.3 J	1.0 J	3.9 J	< 3.0	510	< 0.20	4.6 J	2.3 J	0.95 J	< 5.0	< 1.0	2.3 J	2.7 J	4.2 J	410	53.0	14.0	14.0	71.0	< 0.010
		2002 04 (Winter)	0.86 J	3.3 J	46.0	< 2.0	< 5.0	< 10.0	0.22 J	7.1 J	0.11 J	300	< 0.20	3.1 J	2.2 J	< 5.0	< 5.0	< 2.0	2.7 J	3.8 J	54.0 J	< 210	48.0	15.0	12.0	50.0	< 0.010
		2002 03 (Fall)	< 50.0	3.5 J	39.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	210	< 0.20	2.9 J	< 20.0	< 5.0	< 5.0	< 2.0	6.4 J	< 20.0 UJ	< 100	200	30.0	11.0	16.0	72.0	< 0.010
		2002 02 (Summer)	< 50.0	3.0 J	34.0	< 2.0	< 5.0	0.35 J	< 10.0	< 10.0	< 3.0	330	< 0.20	3.4 J	1.4 J	0.37 J	-	< 2.0	1.0 J	< 20.0	< 100	150	33.0	12.0	13.0	65.0	< 0.010
	M032-A	2007 01 (Spring)	< 1.0	< 5.0	80.0 J	< 2.0	< 5.0	< 0.58	< 1.0	0.34 J	< 3.0	600 J	0.046 J	< 20.0 J	0.59 J	< 5.0	< 5.0	< 5.0	< 1.5	< 2.0	< 100	2200	67.0 J	23.0	12.0	20.0	< 0.010
		2006 01 (Spring)	< 1.0	3.8 J	66.0	< 2.0	< 5.0	< 10.0	< 1.0	1.3 J	< 3.0	440	< 0.20	2.8 J	< 20.0	< 5.0	< 5.0	0.99 J	0.76 J	1.9 J	< 100	1300	52.0	20.0	12.0	21.0	< 0.010
		2005 02 (Summer)	< 1.0	2.1 J	82.0	< 2.0	< 5.0	1.0 J	0.16 J	0.39 J	< 3.0	480	< 0.20	1.5 J	1.1 J	0.42 J	< 5.0	< 5.0	0.53 J	13.0 J	< 100	1900	62.0	23.0	14.0	19.0	< 0.010
		2004 04 (Winter)	< 1.0	1.8 J	110	< 2.0	< 5.0	< 10.0	0.21 J	0.51 J	0.21 J	660	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	0.48 J	2.5 J	< 100	2300	82.0	31.0	16.0	26.0	< 0.010
		2004 02 (Summer)	0.089 J	1.9	81.0	< 1.0	< 1.0	< 1.0	0.15 J	0.47 J	0.10 J	500	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	3.8	< 50.0	2000	68.0	27.0	15.0	20.0	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	116	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	713	**0.30 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	2620	93.9	37.6	18.6	34.2	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	87.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	523	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	1920	74.2	29.4	15.5 J	23.7	< 0.10
		2002 04 (Winter)	0.064 J	1.6 J	110	< 2.0	< 5.0	< 10.0	0.24 J	0.56 J	0.052 J	560	< 0.20	< 20.0	1.4 J	< 5.0	< 5.0	< 2.0	0.66 J	3.3 J	< 100	1800	81.0	33.0	17.0	38.0	< 0.010
		2002 02 (Summer)	0.059 J	< 5.0	83.0	< 2.0	< 5.0	< 10.0	0.18 J	0.28 J	< 3.0	530 J	< 0.20	1.7 J	0.77 J	< 5.0	< 5.0	< 2.0	< 10.0	7.4 J	< 100	1800	74.0	30.0 J	16.0	27.0	< 0.010
	M033-A	2007 01 (Spring)	< 0.096	4.4 J	28.0 J	< 2.0	< 5.0	< 0.65	< 0.086	0.70 J	0.76 J	280 J	< 0.20	< 20.0 J	< 20.0	< 5.0	< 5.0	< 5.0	7.1 J	13.0 J	< 8.2	390	63.0 J	20.0	13.0	55.0	< 0.010
		2006 01 (Spring)	0.12 J	5.0	15.0	< 2.0	< 5.0	< 10.0	< 1.0	0.92 J	< 3.0	230	< 0.20	4.0 J	< 20.0	< 5.0	< 5.0	< 5.0	0.59 J	< 20.0	< 100	560	39.0	12.0	10.0	53.0	< 0.010
		2005 02 (Summer)	< 1.0	4.9 J	33.0	< 2.0	< 5.0	0.83 J	0.11 J	0.32 J	< 3.0	460	< 0.20	1.8 J	0.89 J	0.53 J	< 5.0	< 5.0	0.53 J	6.8 J	< 100	1300	77.0	28.0	18.0	47.0	< 0.010
		2005 01 (Spring)	< 1.0	< 5.0	19.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	230	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	7.2 J	< 100	580	47.0	16.0 J	12.0	52.0	< 0.010
		2004 04 (Winter)	0.094 J	3.5 J	28.0	< 2.0	< 5.0	0.45 J	0.14 J	0.65 J	0.40 J	410	< 0.20	2.5 J	1.3 J	< 5.0	< 5.0	< 5.0	< 10.0	4.7 J	2.6 J	1100	81.0 J	24.0 J	16.0	61.0	< 0.010
		2004 02 (Summer)	< 1.0	4.6	30.0	< 1.0	< 1.0	< 10.0	0.16 J	< 1.0	0.056 J	470	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	5.0 J	< 50.0	1200	78.0	28.0	18.0	76.0	< 0.010
		2004 01 (Spring)	< 5.0	5.5 J	22.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	302 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	740 J	61.6 J	20.2	14.6	68.4	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	33.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	515	**0.23 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	987	95.2	30.7	18.0	92.5	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	34.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	610 J	< 0.40	< 50.0	2.4 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	1380 J	100 J	36.4 J	23.5 J	66.3 J	< 0.10

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M033-A	2003 02 (Summer)	< 50.0	< 50.0	28.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	497	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	4.5 J	< 200	1200 J	80.3	25.6	18.4	74.2	< 0.10
		2003 01 (Spring)	< 1.0	3.2 J	31.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	360	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	9.0 J	< 100	790	66.0	28.0	16.0	67.0	< 0.010
		2002 04 (Winter)	0.12 J	4.6 J	31.0	< 2.0	< 5.0	< 10.0	0.13 J	0.29 J	0.044 J	420	< 0.20	2.6 J	0.35 J	< 5.0	< 5.0	< 2.0	< 10.0	0.78 J	4.7 J	890	69.0	27.0	16.0	100	< 0.010
		2002 03 (Fall)	< 50.0	4.0 J	27.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	410	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	1100	65.0	25.0	18.0	66.0	< 0.010
		2002 02 (Summer)	< 50.0	5.0 J	23.0	< 2.0	< 5.0	0.44 J	< 10.0	< 10.0	0.026 J	320	< 0.20	< 20.0	0.59 J	< 5.0	-	< 2.0	0.48 J	< 20.0	< 100	960	51.0	15.0	14.0	100	< 0.010
	M034-A	2007 01 (Spring)	< 1.0	8.4	95.0 J	< 2.0	< 5.0	< 0.77	0.41 J	0.41 J	< 3.0	540 J	< 0.20	< 20.0 J	< 20.0	< 5.0	< 5.0	< 5.0	< 5.4	< 20.0	< 4.5	4100	56.0 J	14.0	16.0	50.0	< 0.010
		2006 01 (Spring)	< 1.0	9.0	90.0	< 2.0	< 5.0	< 10.0	0.57 J	< 10.0	< 3.0	410	< 0.20	1.8 J	< 20.0	< 5.0	< 5.0	2.7 J	< 10.0	1.7 J	< 100	3700	51.0	11.0	14.0	47.0	< 0.010
		2005 02 (Summer)	< 1.0	10.0	100	< 2.0	< 5.0	1.1 J	0.56 J	0.45 J	< 3.0	490	< 0.20	0.77 J	0.76 J	0.49 J	< 5.0	< 5.0	0.46 J	15.0 J	1.7 J	4700	55.0	13.0	18.0	46.0	< 0.010
		2005 01 (Spring)	< 1.0	10.0	130	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	650	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	5.8 J	< 100	5700	65.0	18.0 J	19.0	79.0	< 0.010
		2004 04 (Winter)	0.094 J	9.7	88.0	< 2.0	< 5.0	0.51 J	0.72 J	0.56 J	0.078 J	400	< 0.20	0.77 J	0.62 J	< 5.0	< 5.0	< 5.0	0.50 J	3.7 J	1.5 J	3900	50.0 J	9.9 J	16.0	56.0	< 0.010
		2004 02 (Summer)	< 1.0	9.4	110	< 1.0	< 1.0	< 10.0	0.57 J	< 1.0	0.068 J	630	0.12 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 20.0	< 50.0	5500	57.0	16.0	20.0	69.0	< 0.010
		2004 01 (Spring)	< 5.0	7.8 J	92.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	545 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	5260 J	58.2 J	13.3	15.4	59.4	< 0.10
		2003 04 (Winter)	< 5.0	12.9 J	92.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	454	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	4940	54.3	11.0	18.4	55.5	< 0.10
		2003 03 (Fall)	2.4 J	10.8 J	111	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	613 J	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	34.1 J	5760 J	61.6 J	13.3 J	18.5 J	52.0 J	< 0.10
		2003 02 (Summer)	< 50.0	7.8 J	129	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	815	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	6470	63.8	19.7	26.6 J	82.1	< 0.10
		2003 01 (Spring)	< 1.0	10.0	87.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	440	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0 UJ	< 100	4500	49.0	9.8	14.0	48.0	< 0.010
		2002 04 (Winter)	0.17 J	13.0	100	< 2.0	0.091 J	< 10.0	0.82 J	0.33 J	0.046 J	510	< 0.20	< 20.0	0.97 J	< 5.0	< 5.0	< 2.0	0.72 J	1.3 J	< 100	4700	56.0	9.2	16.0	56.0	< 0.010
		2002 03 (Fall)	< 50.0	13.0	110	< 2.0	< 5.0	< 10.0	0.73 J	< 10.0	< 3.0	570	< 0.20	0.80 J	< 20.0	< 5.0	< 5.0	< 2.0	6.4 J	< 20.0 UJ	< 100	5900	56.0	11.0	18.0	53.0	< 0.010
		2002 02 (Summer)	< 50.0	12.0	120	< 2.0	< 5.0	0.80 J	0.61 J	< 10.0	0.031 J	720	< 0.20	< 20.0	0.59 J	0.76 J	-	< 2.0	0.44 J	4.6 J	< 100	5800	59.0	15.0	21.0	70.0	< 0.010
	M035-A	2007 01 (Spring)	0.66 J	4.8 J	49.0 J	< 2.0	< 5.0	< 0.58	0.26 J	2.8 J	< 3.0	260 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	5.7 J	17.0 J	< 100	130	85.0 J	23.0	6.8	27.0	< 0.010
		2005 02 (Summer)	< 1.0	8.8	48.0	< 2.0	< 5.0	< 10.0	0.72 J	1.6 J	0.37 J	810	< 0.20	1.9 J	3.6 J	0.63 J	< 5.0	< 5.0	0.90 J	21.0	< 100	360	82.0	24.0	8.7	37.0	< 0.010
		2005 01 (Spring)	0.81 J	3.0 J	46.0	< 2.0	< 5.0	< 10.0	< 1.0	4.0 J	< 3.0	200	< 0.20	< 20.0	3.3 J	< 5.0	< 5.0	< 5.0	1.1 J	12.0 J	< 100	110	82.0	19.0 J	3.9	24.0	< 0.010
		2004 04 (Winter)	< 1.0	11.0	42.0 J	< 2.0	< 5.0	< 10.0	0.48 J	1.7 J	0.32 J	640	< 0.20	< 20.0	2.9 J	< 5.0	< 5.0	0.28 J	0.67 J	4.6 J	< 100	280	81.0	23.0	8.8	32.0	< 0.010
		2004 02 (Summer)	0.66 J	8.5	47.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	2.4	0.57 J	590	< 0.20	2.7 J	3.5	< 1.0 J	< 1.0	< 1.0	< 10.0	8.7	< 50.0	< 100	77.0	20.0	7.5	29.0	< 0.010
		2004 01 (Spring)	< 5.0	5.7 J	35.8 J	< 4.0	< 5.0	< 10.0	< 10.0	7.9 J	< 10.0	224 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	41.0 J	71.0 J	15.9	5.3	22.5	< 0.10
		2003 04 (Winter)	< 5.0	8.5 J	35.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	450	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	106	76.5	20.4	6.6	26.0	< 0.10
		2003 03 (Fall)	< 5.0 UJ	12.3 J	51.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1100	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	307	96.5	26.4	8.8 J	32.0 J	< 0.10
		2003 02 (Summer)	< 50.0	8.0 J	53.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	616	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	169	98.0	27.7	8.2 J	33.2	< 0.10
		2003 01 (Spring)	0.34 J	8.0	42.0	< 2.0	< 5.0	< 10.0	< 10.0	1.6 J	< 3.0	330	< 0.20	2.2 J	2.7 J	< 5.0	< 5.0	< 1.0	1.2 J	1.6 J	< 100	250	76.0	20.0	7.2	24.0	< 0.010
		2002 04 (Winter)	1.7 J	3.3 J	38.0	0.043 J	0.28 J	< 10.0	0.24 J	12.0	0.13 J	24.0	< 0.20	< 20.0	4.3 J	< 5.0	< 5.0	< 2.0	2.0 J	11.0 J	< 100	460	92.0	13.0	2.4	27.0	< 0.010
		2002 03 (Fall)	< 50.0	11.0	50.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	770	< 0.20	1.7 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	690	94.0	27.0	8.7	36.0	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M035-A	2002 02 (Summer)	0.34 J	11.0	55.0	< 2.0	< 5.0	0.42 J	0.53 J	< 10.0	< 3.0	920	< 0.20	< 20.0	2.5 J	< 5.0	-	< 2.0	1.3 J	11.0 J	< 100	470	99.0	28.0	8.3	32.0	< 0.010
SWBZ	M001-B	2007 01 (Spring)	< 1.0	< 5.0	57.0	< 2.0	< 5.0	< 0.42	7.7	0.49 J	< 1.7	**7900**	< 0.20	< 20.0	5.0 J	< 5.0	0.081 J	< 5.0	< 2.1	0.89 J	< 13.0	< 100	**570 J**	**1100**	110	**5000**	-
		2006 01 (Spring)	< 1.0	13.0	58.0	< 2.0	< 5.0	< 10.0	8.0	< 10.0	< 3.0	**7900**	< 0.20	2.6 J	6.0 J	3.9 J	8.1	11.0	< 10.0	< 20.0	32.0 J	140	**560**	**1000**	91.0	**4900**	-
		2005 02 (Summer)	0.64 J	3.7 J	66.0	0.072 J	< 5.0	< 10.0	8.6	2.1 J	0.50 J	**8300**	< 0.20	4.0 J	8.8 J	**19.0**	0.086 J	4.2 J	1.3 J	**67.0 J**	< 100	2200	**570**	**1000**	99.0 J	**5000**	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	57.0	< 2.0	< 5.0	0.25 J	7.9	4.8 J	0.40 J	**8900**	< 0.20	3.3 J	9.2 J	< 5.0	< 5.0	0.78 J	0.51 J	20.0	< 100	1400	**600 J**	**1100 J**	120	**5800**	< 0.010
		2004 02 (Summer)	< 1.0	< 1.0	61.0	< 1.0	< 1.0	< 10.0	9.3	3.7	0.19 J	**7400**	< 0.20	< 5.0	13.0	< 1.0	< 1.0	0.19 J	< 10.0	< 20.0	< 50.0	2100	**530**	**980**	120	**5300**	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	51.0 J	< 4.0	< 5.0	< 10.0	6.0 J	< 10.0	< 10.0	**7060**	< 0.40	**32.0 J**	14.0 J	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	71.6 J	**590**	**1080**	147	**5490**	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	57.3 J	< 4.0	< 5.0	< 10.0	8.4 J	1.4 J	< 10.0	**7700**	< 0.40	< 50.0	6.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	72.1 J	**550**	**1020**	106	**4470 J**	< 0.10
		2002 04 (Winter)	< 50.0	< 5.0	67.0	< 2.0	< 5.0	< 10.0	8.4 J	6.3 J	0.057 J	**7400**	< 0.20	3.2 J	12.0 J	< 5.0	< 5.0	< 2.0	2.9 J	< 20.0	17.0 J	2700	**510**	**970**	110	**4800**	< 0.010
		2002 02 (Summer)	< 50.0	< 5.0	65.0	< 2.0	< 5.0	3.4 J	9.0 J	7.8 J	< 3.0	**7100**	< 0.20	< 20.0	< 20.0	< 5.0	4.8 J	< 2.0	1.6 J	< 28.0	< 100	1400	**550**	**1000**	110	**5200**	< 0.010
	M003-B	2007 01 (Spring)	0.78 J	< 5.0	88.0	< 2.0	< 5.0	< 0.82	0.96 J	0.68 J	< 1.7	**6700**	< 0.088	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 3.1	< 20.0	< 8.5	**7200**	**320 J**	**860**	**180**	**5700**	-
		2006 01 (Spring)	0.093 J	< 5.0	90.0	0.57 J	< 5.0	1.3 J	1.4	< 10.0	< 3.0	**7100**	**0.27**	< 20.0	1.6 J	3.4 J	1.7 J	< 5.0	< 10.0	6.3 J	< 100	**7800 J**	**360 J**	**990 J**	**190 J**	**6700 J**	-
		2005 02 (Summer)	0.42 J	1.3 J	110	< 2.0	< 5.0	< 10.0	1.7	1.4 J	0.40 J	**7600**	< 0.20	3.2 J	4.5 J	**28.0**	< 5.0	< 5.0	0.78 J	**55.0**	< 100	**11000**	**350**	**970**	**180**	**6600**	< 0.010
		2004 04 (Winter)	0.21 J	< 5.0	100	< 2.0	< 5.0	0.41 J	1.9	4.4 J	0.37 J	**8600**	< 0.20	3.2 J	5.8 J	< 5.0	< 5.0	< 5.0	0.64 J	21.0	4.6 J	**9700**	**380 J**	**1100 J**	**230**	**7500**	< 0.010
		2004 02 (Summer)	< 1.0	< 1.0	100	< 1.0	< 1.0	< 10.0	2.3	7.5	0.32 J	**7600**	< 0.20	< 5.0	11.0	< 1.0	< 1.0	< 1.0	< 10.0	< 20.0	< 50.0	**12000**	**380**	**1000**	**240**	**7200**	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	79.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6440**	< 0.40	**22.5 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**8040**	**315**	**919**	**269**	**6900**	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	103	< 4.0	0.56 J	< 10.0	2.4 J	< 10.0	< 10.0	**7900**	< 0.40	< 50.0	1.9 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**9360**	**409**	**1110**	< 244	**6420 J**	< 0.10
		2002 04 (Winter)	< 50.0	< 5.0	130	< 2.0	< 5.0	< 10.0	3.3 J	9.8 J	0.077 J	**7800**	< 0.20	3.5 J	13.0 J	**58.0**	< 5.0	< 2.0	3.6 J	< 20.0	3.5 J	**9200**	**370**	**1000**	**230**	**7000**	< 0.010
		2002 02 (Summer)	0.13 J	< 5.0	130	< 50.0	0.089 J	7.9 J	2.5 J	4.6 J	< 3.0	**7300**	0.061 J	< 20.0	5.8 J	< 5.0	3.0 J	< 2.0	2.4 J	< 20.0	< 2500	**7300**	**370**	**1000**	**210**	**6900**	< 0.010
	M025-C	2007 01 (Spring)	< 0.13	3.7 J	240	< 2.0	< 5.0	1.5 J	0.28 J	0.40 J	< 3.0	1700	< 0.20	0.65 J	1.0 J	< 5.0	< 5.0	< 5.0	5.6 J	< 20.0	68.0 J	5100	95.0	160	62.0	1200	-
		2006 01 (Spring)	< 1.0	5.1	320	< 2.0	< 5.0	< 10.0	0.41 J	< 10.0	< 3.0	**2000**	< 0.20	< 20.0	< 20.0	< 5.0	3.0 J	4.4 J	< 10.0	3.2 J	43.0 J	**7000**	110	190	68.0	1100	-
		2005 02 (Summer)	< 1.0	6.3	320	< 2.0	< 5.0	1.8 J	0.46 J	0.99 J	< 3.0	**2000**	< 0.20	0.56 J	2.1 J	2.9 J	< 5.0	0.74 J	0.85 J	33.0	25.0 J	**8500**	110	180	58.0	1100	< 0.010
		2005 01 (Spring)	< 1.0	4.6 J	270	< 2.0	< 5.0	0.96 J	< 1.0	< 10.0	< 3.0	**1800**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	19.0 J	110 J	**6800**	94.0	190 J	69.0	1200	< 0.010
		2004 04 (Winter)	< 1.0	5.5	270	< 2.0	< 5.0	1.1 J	0.36 J	1.2 J	0.10 J	**1900**	< 0.20	< 20.0	1.6 J	**< 5.0**	< 5.0	< 5.0	0.73 J	7.5 J	3.8 J	**6900**	96.0	170	57.0	980	< 0.010
		2004 02 (Summer)	< 1.0	< 2.2	260	< 1.0	< 1.0	< 1.4 UJ	0.53 J	1.5	< 1.0	**2000**	< 0.20	0.59 J	1.3	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**7300**	110	190	66.0	1300	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	230	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1770**	< 1.0	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**6820**	94.5	172	64.4 J	1120	< 0.10
		2003 04 (Winter)	< 5.0	10.5 J	435	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2430**	**0.25 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**11500**	140	238	80.7	1420	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0 UJ	406	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2310**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**9820**	131	234	130 J	434	< 0.10
		2003 02 (Summer)	< 50.0	8.7 J	337	< 4.0	< 5.0	< 10.0	< 10.0	1.0 J	< 10.0	**2030**	< 0.40	< 50.0	1.6 J	< 20.0	< 10.0	< 50.0	< 50.0	2.8 J	< 200	**8620**	110	185	59.6	950 J	< 0.10
		2003 01 (Spring)	< 1.0	7.5	300	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**1900**	< 0.20	< 20.0	< 20.0	2.4 J	< 5.0	< 1.0	< 10.0	0.99 J	< 100	**8300**	110	190	61.0 J	1200	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWMU	M025-C	2002 04 (Winter)	< 50.0	5.3	380	< 2.0	< 5.0	< 10.0	0.50 J	1.1 J	0.051 J	2400	< 0.20	1.3 J	2.4 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	8900	130	220	73.0	1400	< 0.010
		2002 03 (Fall)	0.082 J	5.7	230	< 2.0	< 5.0	< 10.0	0.48 J	< 10.0	< 3.0	2000	< 0.20	1.2 J	2.1 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	3100	110	190	63.0	1200	< 0.010
		2002 02 (Summer)	< 50.0	4.5 J	280	< 2.0	< 5.0	10.0 J	< 10.0	0.95 J	< 3.0	2000	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	2.3 J	< 26.0	< 100	6300	100	200	66.0	1300	< 0.010
	M027-B	2007 01 (Spring)	< 0.12	35.0	450	< 2.0	< 5.0	< 0.61	0.20 J	< 10.0	< 3.0	5500	< 0.20	2.0 J	0.71 J	< 5.0	< 5.0	< 5.0	5.0 J	< 20.0	< 11.0	13000	270	600	62.0	3300	-
		2006 01 (Spring)	< 1.0	53.0	480	< 2.0	< 5.0	< 10.0	0.59 J	< 10.0	< 3.0	5800	0.11 J	2.2 J	< 20.0	< 5.0	4.9 J	10.0	< 10.0	< 20.0	< 100	11000	280	590	72.0	3200	-
		2005 02 (Summer)	0.26 J	42.0	470	< 2.0	< 5.0	0.79 J	0.51 J	1.7 J	< 3.0	5000	< 0.20	< 20.0	3.7 J	6.3	< 5.0	< 5.0	0.40 J	30.0	< 100	19000	230	480	52.0	3100	< 0.010
		2004 04 (Winter)	< 1.0	33.0	490	< 2.0	< 5.0	< 10.0	0.73 J	3.2 J	0.35 J	5800	< 0.20	< 20.0	3.4 J	< 5.0	< 5.0	< 5.0	< 10.0	12.0 J	< 100	16000	270	570	65.0	3300	< 0.010
		2004 02 (Summer)	0.090 J	34.0	460	< 1.0	< 1.0	< 1.3	0.87 J	2.5	0.050 J	5700	< 0.20	< 5.0	4.1	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	17000	310	650	68.0	3900	< 0.010
		2003 04 (Winter)	< 5.0	39.7 J	431	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5310	< 0.40	14.0 J	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	14700	265	592	79.2	3540	< 0.10
		2003 02 (Summer)	< 50.0	48.3 J	487	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5320	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	12800	277	567	54.2 J	2780	< 0.10
		2002 04 (Winter)	< 50.0	42.0	400	< 2.0	< 5.0	< 10.0	0.53 J	2.2 J	0.036 J	4600	< 0.20	2.1 J	2.6 J	18.0	< 5.0	< 2.0	< 10.0	< 20.0	4.5 J	9700	230	490	54.0	2800	< 0.010
		2002 02 (Summer)	< 50.0	40.0	500	< 2.0	< 5.0	5.6 J	< 10.0	2.6 J	< 3.0	5600	< 0.20	< 20.0	< 20.0	< 5.0	0.92 J	< 2.0	1.3 J	260	< 100	11000	260	550	63.0	3000	< 0.010
	M027-C	2007 01 (Spring)	< 1.0	7.1	92.0	< 2.0	< 5.0	< 0.50	0.43 J	< 10.0	< 3.0	7100	< 0.20	2.2 J	0.77 J	< 5.0	< 5.0	< 5.0	2.8 J	< 20.0	< 5.3	3100	430	890	100	4600	-
		2006 01 (Spring)	< 1.0	16.0	79.0	< 2.0	< 5.0	< 10.0	1.0	< 10.0	< 3.0	6900	< 0.20	2.3 J	< 20.0	< 5.0	6.3	10.0	< 10.0	< 20.0	< 100	2500	360	760	69.0	3600	-
		2005 02 (Summer)	0.30 J	9.8	92.0	< 2.0	< 5.0	0.95 J	0.99 J	2.9 J	< 3.0	6700	< 0.20	< 20.0	4.8 J	12.0	< 5.0	< 5.0	0.54 J	50.0	< 100	5100	410	780	91.0	3800	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	80.0 J	< 2.0	< 5.0	< 10.0	1.3	4.4 J	0.37 J	6900	0.065 J	< 20.0	4.3 J	< 5.0	< 5.0	< 5.0	< 10.0	17.0 J	< 100	2700	400	830	100	4500	< 0.010
		2004 02 (Summer)	0.18 J	< 1.0	80.0	< 1.0	< 1.0	< 1.5	1.8	6.2	0.078 J	6800	< 0.20	< 5.0	7.3	< 1.0	< 1.0	< 1.0	6.7 J	< 1.0	< 50.0	3800	420	880	110	4500	< 0.010
		2003 04 (Winter)	< 5.0	5.9 J	73.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	6190	0.25 J	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	2880	382	837	123	4520	< 0.10
		2003 02 (Summer)	< 50.0	8.7 J	72.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	6280	< 0.40	< 50.0	1.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	2220	378	780	83.9	3510 J	< 0.10
		2002 04 (Winter)	< 50.0	11.0	88.0	< 2.0	< 5.0	< 10.0	1.3 J	2.7 J	0.090 J	6400	< 0.20	2.2 J	3.4 J	22.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	3200	370	780	87.0	4000	< 0.010
		2002 02 (Summer)	< 50.0	6.0	75.0 J	< 2.0	< 5.0	3.6 J	< 10.0	2.8 J	< 3.0	6100	< 0.20	< 20.0	< 20.0	< 5.0	3.5 J	< 2.0	1.1 J	< 20.0	< 100	2500	390	830 J	95.0	4200	< 0.010
	M028-C	2007 01 (Spring)	< 0.14	7.7	150	< 2.0	0.074 J	< 0.67	0.094 J	< 10.0	< 3.0	6100	0.023 J	1.4 J	2.2 J	< 5.0	0.096 J	< 5.0	< 1.1	< 20.0	26.0 J	5100	690	880	100	5200	-
		2006 01 (Spring)	0.11 J	17.0	140	0.44 J	< 5.0	0.95 J	1.2	1.8 J	< 3.0	6600	0.11 J	1.1 J	< 20.0	< 5.0	3.5 J	2.1 J	< 10.0	< 20.0	< 100	5900	670	1000	120	5800	-
		2005 02 (Summer)	0.25 J	9.8	170	< 2.0	< 5.0	< 10.0	0.75 J	1.8 J	< 3.0	6500	< 0.20	1.7 J	3.9 J	20.0	< 5.0	< 5.0	0.37 J	53.0	< 100	8900	570	910	100	5600	< 0.010
		2005 01 (Spring)	< 1.0	9.9	150	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	6200	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	6.7 J	86.0 J	5600	600	1000 J	140	5800	< 0.010
		2004 04 (Winter)	0.071 J	< 5.0	230	< 2.0	< 5.0	0.38 J	0.89 J	5.5 J	0.48 J	6600	< 0.20	1.6 J	5.1 J	< 5.0	< 5.0	< 5.0	< 10.0	23.0	0.96 J	5900	640 J	930 J	110	5600	< 0.010
		2004 02 (Summer)	< 1.0	< 1.0	180	< 1.0	< 1.0	< 10.0	1.2	6.1	0.60 J	6100	< 0.20	< 5.0	8.2	< 1.0	< 1.0	< 1.0	< 100	< 200	< 50.0	8500	610	900	120	5600	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	133	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5960	< 1.0	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	5830	480	1090	129 J	6140	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	164	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5560	< 0.40	12.2 J	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	5420	476	880	135	5710	< 0.10
		2003 03 (Fall)	< 25.0 UJ	14.5 J	249	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	6670	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	5760	635	984	112 J	4930 J	< 0.10
		2003 02 (Summer)	< 50.0	16.5 J	184	< 4.0	0.54 J	< 10.0	< 10.0	< 10.0	< 10.0	6870	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	6230	598	1020	117 J	5040	< 0.10

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-5

Groundwater Sample Analytical Results Dissolved Metals and Total Cyanide at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWQZ	M028-C	2003 01 (Spring)	< 1.0	< 5.0	200	< 2.0	< 5.0	< 10.0	< 10.0	3.1 J	< 3.0	6800	< 0.20	< 20.0	4.7 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 100	7700	620	1100	100	5800	< 0.010
		2002 04 (Winter)	< 50.0	15.0 J	< 270	< 2.0	< 5.0	< 10.0 UJ	0.47 J	3.3 J	0.035 J	6500	< 0.20	1.5 J	2.7 J	28.0 J	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	6100 J	660	950	110	5600	< 0.010
		2002 03 (Fall)	< 50.0	< 5.0	200	< 2.0	< 5.0	< 10.0	0.59 J	< 10.0	< 3.0	5400	< 0.20	2.1 J	3.7 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	7200	620	940	100	5300	< 0.010
		2002 02 (Summer)	< 50.0	0.52 J	150	< 2.0	< 5.0	2.9 J	< 10.0	4.2 J	< 3.0	6100	< 0.20	< 20.0	< 20.0	< 5.0	1.5 J	< 2.0	1.3 J	< 20.0	< 100	6300	530	1000	110	5700	< 0.010
	M030-C	2007 01 (Spring)	< 0.11	< 5.0	55.0 J	< 2.0	< 5.0	< 10.0	0.26 J	< 10.0	< 3.0	5700	< 0.20	< 20.0	< 20.0	< 5.0	0.091 J	< 5.0	< 1.3	< 2.3	< 12.0	530	350	970	160	7600	-
		2006 01 (Spring)	< 1.0	16.0	55.0	0.43 J	< 5.0	2.3 J	0.99 J	1.9 J	< 3.0	5700	< 0.20	3.8 J	< 20.0	< 5.0	4.0 J	4.5 J	< 10.0	< 20.0	< 100	490	390	1100	180	8600	-
		2005 02 (Summer)	< 1.0	2.1 J	62.0	< 2.0	< 5.0	0.91 J	0.88 J	3.6 J	< 3.0	5700	< 0.20	3.9 J	4.7 J	33.0 J	< 5.0	< 5.0	0.27 J	100	4.8 J	1700	360	960	160	8000	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	57.0	< 2.0	< 5.0	0.37 J	0.92 J	5.3 J	0.34 J	4800	< 0.20	4.1 J	4.9 J	< 5.0	< 5.0	< 5.0	< 10.0	19.0 J	1.2 J	1300	370 J	1100 J	180	8800	< 0.010
		2004 02 (Summer)	0.15 J	< 1.0	58.0	< 1.0	< 1.0	2.1	1.2	3.8	0.56 J	5000	< 0.20	< 5.0	9.2	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	1700	380	1100	190	8400	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	51.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	3580	< 0.40	26.0 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	435	332	962	225	8750	< 0.10
		2003 02 (Summer)	< 50.0	6.6 J	62.0 J	< 4.0	0.63 J	< 10.0	1.9 J	< 10.0	< 10.0	4680	< 0.40	6.7 J	2.5 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	514	430	1150	202 J	7260	< 0.10
		2002 04 (Winter)	< 50.0	< 5.0	69.0	< 2.0	< 5.0	< 10.0	1.5 J	9.1 J	0.071 J	3500	< 0.20	4.9 J	9.1 J	54.0	< 5.0	< 2.0	4.4 J	< 20.0	4.9 J	2100	370	980	170	7700	< 0.010
		2002 02 (Summer)	< 50.0	< 5.0	53.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	3900	0.27	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	6.8 J	< 20.0	< 100 UJ	370	390	1000	150	8100	-
	M031-C	2007 01 (Spring)	< 1.0	< 5.0	120 J	< 2.0	< 5.0	< 0.59	< 0.10	0.34 J	< 3.0	6700	< 0.20	< 20.0 J	< 20.0	< 5.0	< 5.0	< 5.0	< 2.6	< 3.4	< 11.0	2700	480	890	100	5100	-
		2006 01 (Spring)	< 1.0	9.6	150	0.36 J	< 5.0	1.4 J	0.89 J	1.8 J	< 3.0	6200	< 0.20	0.88 J	< 20.0	1.9 J	3.0 J	< 5.0	< 10.0	< 20.0	< 100	2700	520	950	100	5400	-
		2005 02 (Summer)	0.11 J	5.2	180	< 2.0	0.16 J	< 10.0	0.80 J	1.4 J	0.29 J	5900	< 0.20	1.0 J	3.5 J	16.0	< 5.0	< 5.0	0.36 J	48.0	< 100	5100	480	810	96.0	5000	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	170	< 2.0	< 5.0	< 10.0	0.92 J	5.3 J	0.18 J	6400	< 0.20	< 20.0	4.8 J	< 5.0	< 5.0	< 5.0	< 10.0	29.0	< 100	2700	540	920	120	5600	< 0.010
		2004 02 (Summer)	0.18 J	< 1.0	120	< 1.0	< 1.0	< 1.4 UJ	1.0	5.8	0.20 J	5900	< 0.20	1.1 J	4.3	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	2600	510	900	100	5600	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	126	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5330	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	2110	449	830	129	3440	< 0.10
		2003 02 (Summer)	< 50.0	8.3 J	130	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	7090	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	2980	582	1060	124 J	5040	< 0.10
		2002 04 (Winter)	< 50.0	9.7 J	99.0	< 2.0	< 5.0	< 10.0 UJ	0.64 J	2.6 J	0.048 J	6800	< 0.20	1.4 J	3.8 J	27.0 J	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	2400 J	510	960	110	6200	< 0.010
		2002 02 (Summer)	< 50.0	0.94 J	92.0	< 2.0	< 5.0	2.8 J	< 10.0	3.6 J	< 3.0	5700	< 0.20	< 20.0	< 20.0	< 5.0	1.6 J	< 2.0	1.1 J	470	< 100	2900	450	860	100	5000	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7.1-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M001-A	2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M002-A	2007 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M003-A	2007 01 (Spring)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2006 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M003-A	2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M025-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48 UJ	< 0.48 UJ	< 0.48 UJ	< 0.48 UJ	< 0.95
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M027-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 04 (Winter)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M027-A	2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M028-A	2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M028-E	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48 UJ	< 0.48 UJ	< 0.48 UJ	< 0.48 UJ	< 0.95
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 04 (Winter)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M030-A	2007 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-6

Groundwater Sample Analytical Results Polychlorinated Biphenyls at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M030-A	2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48

Table 7.1-7

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event	AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M001-A	2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)		< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M002-A	2007 01 (Spring)		< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)		< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
	M003-A	2007 01 (Spring)		< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050 UJ	< 0.050	< 0.50 UJ	< 0.90
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)		< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M025-A	2007 01 (Spring)		< 0.050	< 0.050 UJ	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0060 J	< 0.50	< 1.0
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	0.0070 J	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)		< 0.040	0.014 J	0.083	< 0.040	0.015 J	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M027-A	2007 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.050	< 0.050	0.020 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-7

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M027-A	2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M028-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	0.030 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.030 J	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	0.050 J	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	0.040 J	< 0.050	0.010 J	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0060 J	0.020 J	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	0.098	0.015 J	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M028-E	2007 01 (Spring)	< 0.050	0.020 J	0.060 J	< 0.050 UJ	< 0.050 UJ	< 0.050	0.0080 J	0.070 J	0.040 J	0.040 J	0.020 J	< 0.050	< 0.10	< 0.10	< 0.10	0.010 J	< 0.10	0.030 J	0.060 J	< 0.50	< 1.0
		2006 01 (Spring)	0.010 J	< 0.050	0.020 J	0.030 J	0.0090 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	0.0060 J	< 0.050	< 0.10	< 0.10	0.030 J	< 0.10	< 0.10	< 0.050	0.0030 J	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	0.020 J	< 0.050	< 0.050	< 0.050	0.030 J	0.010 J	< 0.10	< 0.10	< 0.10	0.040 J	< 0.050	< 0.10	0.030 J	< 0.10	< 0.10	0.020 J	< 0.050	0.080	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050 UJ	0.060 J	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	0.020 J	< 0.10 UJ	0.020 J	0.020 J	0.020 J	< 0.050 UJ	< 0.10 UJ	0.020 J	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	0.0070 J	< 0.050 UJ	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	0.030 J	0.020 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.080 J	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050 J	0.060	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	0.040 J	0.030 J	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.010 J	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	0.14	0.084	2.4	0.054	0.031 J	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	0.069 J	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M030-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	0.070 J	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	< 3.0 UJ	10.2 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	11.8	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	12.6 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.2	12.6	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.2	< 750	< 10.0
		2004 01 (Spring)	< 0.96	14.4	< 0.14	< 0.82	-	< 5.4	-	< 0.78	< 87.1	< 20.8	< 33.7	< 7.0	< 5.1	< 177	< 577	< 108	0.069	< 0.030	-	0.088	-	< 9.7	< 335	< 8.8
		2003 04 (Winter)	< 1.5	22.9	< 0.60	< 3.7	-	-	-	< 2.2	< 373	< 66.9	< 127	< 21.3	< 48.3	< 173	< 1310	< 228	-	-	-	-	-	95.9	< 652	74.7
		2003 03 (Fall)	< 2.4	30.2	1.2	< 2.8	1.2	-	-	< 2.0	< 192	< 30.8	< 134	< 36.5	< 52.2	< 183	< 2340	< 242	-	-	-	-	-	< 40.0	< 115	< 35.2
		2003 02 (Summer)	< 2.3	21.1	< 1.8	< 3.7	-	-	-	< 2.2	597	< 78.8	< 208	< 18.8	< 27.8	< 178	< 1970	< 102	-	-	-	-	-	54.5	< 744	< 44.5
		2003 01 (Spring)	< 2.3 UJ	15.2	< 1.4	< 5.7	-	-	-	< 1.8	< 268	< 52.0	< 197	< 27.0	< 24.0	< 183	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.87 UJ	11.4	< 0.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.8	37.3	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.5	11.0	< 0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M001-E	2007 01 (Spring)	< 3.0	27.2	0.25 J	< 5.0	0.25	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	28.1	0.38 J	< 5.0	0.38	-	-	< 5.0	41.2 J	< 20.0	< 50.0	< 15.0	< 10.0	427 J	-	< 250	< 0.20	-	< 0.20	0.096 J	-	12.2	< 750	11.2
		2006 01 (Spring)	2.3 J	47.4 J	< 0.50	< 5.0	-	-	-	27.5	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.040 J	-	< 0.20	0.030 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	1.8 J	11.7 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	28.8	0.17 J	< 5.0	0.17	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 5.7	11.4 J	0.20 J	< 5.0 UJ	0.20	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	21.7	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 2.4	44.3	< 1.0	< 1.1	-	-	-	< 2.2	217	< 30.3	< 86.3	< 10.0	< 25.1	< 184	< 983	< 64.5	-	-	-	-	-	31.6	< 260	< 12.0
		2003 04 (Winter)	< 2.9	48.9	< 0.98	< 4.4	-	-	-	< 2.4	573	< 32.9	< 143	< 29.3	< 46.2	< 169	< 1210	< 309	-	-	-	-	-	76.4	< 771	42.5
		2003 03 (Fall)	< 4.2	47.2	< 0.61	< 3.7	-	-	-	< 2.2	< 233	< 61.5	< 215	< 36.1	< 53.1	< 182	< 1680	< 51.0	-	-	-	-	-	< 24.3	< 311	< 42.4
		2003 02 (Summer)	< 4.2	36.2	< 1.0	5.3	5.3	-	-	< 2.7	280	< 49.5	< 177	< 33.6	< 38.8	< 168	< 1130	< 61.0	-	-	-	-	-	< 74.2	< 725	< 26.9
		2003 01 (Spring)	< 3.8 UJ	38.5	< 1.1	< 4.4	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 181	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 3.0 UJ	40.1	< 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.2	29.9	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 3.5	2.1	< 0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M002-A	2007 01 (Spring)	2.2 J	11.1	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.6	-	< 0.20	1.2	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	17.9	< 0.50	< 5.0	-	-	-	2.1 J	< 100	< 20.0	< 50.0	< 15.0	< 10.0	357 J	-	< 250	1.1	-	< 0.20	0.75	-	14.6	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	8.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.92	-	< 0.20	1.1	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	37.1	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	2.5 J	25.4	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 5.1	8.9 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	6.7	20.8	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.3	-	-	0.86	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 1.6	13.9	< 0.17	< 0.90	-	< 8.0	-	< 0.37	< 126	< 32.7	< 56.4	< 10.4	< 7.4	< 177	< 922	< 157	1.3	< 0.23	-	1.1	-	< 13.6	< 513	< 12.7
		2003 04 (Winter)	< 1.0	11.5	< 0.64	< 3.4	-	-	-	< 1.9	< 231	< 47.0	< 138	< 19.5	< 23.3	< 170	< 1930	< 315	-	-	-	-	-	78.2	< 633	58.5
		2003 03 (Fall)	< 6.0	36.5	< 0.77	< 3.8	-	-	-	< 1.9	< 330	< 73.8	< 202	< 20.8	< 53.0	< 182	< 1490	< 90.0	-	-	-	-	-	< 65.9	< 253	< 39.4
		2003 02 (Summer)	< 3.4	21.5	< 1.3	< 5.1	-	-	-	< 2.0	< 274	< 23.0	< 152	< 14.5	< 40.5	< 184	< 1410	< 201	-	-	-	-	-	51.9	< 707	< 40.1
		2003 01 (Spring)	< 2.5 UJ	14.3	< 1.2	< 5.0	-	-	-	< 1.7	< 201	< 52.0	< 197	< 27.0	< 24.0	< 181	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 2.7 UJ	12.2	< 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	3.6	29.0	< 0.67 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	3.3	22.8	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M003-A	2007 01 (Spring)	1.6 J	3.3	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.65	-	< 0.20	0.52	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	< 0.50	2.3 J	2.3	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.74	-	< 0.20	1.1	-	< 10.0	< 750	11.4
		2006 01 (Spring)	< 3.0 UJ	6.2 J	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.36	-	< 0.20	0.40	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	6.6 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	9.3	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	4.3 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	4.8	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.38	4.8	< 0.23	< 0.88	-	< 4.9	-	< 0.77	< 49.0	< 17.3	< 31.3	< 7.1	< 4.5	< 174	< 517	< 90.0	0.40	< 0.028	-	0.41	-	< 9.1	< 87.2	< 9.3
		2003 04 (Winter)	< 0.58 UJ	5.4	< 0.57	< 3.2	-	-	-	< 1.9	< 193	< 56.1	< 94.9	< 26.4	< 45.6	< 174	< 1130	< 287	-	-	-	-	-	< 6.0	< 633	< 31.2
		2003 03 (Fall)	< 1.2	5.8	< 0.74	< 4.2	-	-	-	< 1.9	< 225	< 74.0	< 229	< 36.7	< 37.4	< 182	< 1660	< 140	-	-	-	-	-	< 49.5	< 300	< 37.4
		2003 02 (Summer)	< 1.0	4.2	< 1.1	< 3.4	-	-	-	< 1.8	< 266	< 46.7	< 164	< 19.4	< 45.3	< 190	< 1470	< 48.4	-	-	-	-	-	61.8	< 585	< 27.1
		2003 01 (Spring)	< 2.2 UJ	4.0	< 0.93	< 3.9	-	-	-	< 2.3	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M003-A	2002 04 (Winter)	1.4 J	2.0	< 0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	2.9	3.6	< 0.68 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	3.3	5.4	< 0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M004-A	2005 02 (Summer)	< 3.0	19.5	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	15.7 J	< 0.50	2.6 J	2.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	15.7	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.57	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 1.7	18.8	< 1.1	< 4.3	-	-	-	< 2.2	< 296	< 56.2	< 108	< 16.8	< 41.2	< 170	< 1020	< 349	-	-	-	-	-	66.5	< 691	< 48.8
		2003 02 (Summer)	< 1.7	17.6	< 1.6	< 3.2	-	-	-	< 2.0	433	< 54.5	< 218	< 26.7	< 32.7	< 209	< 1340	< 134	-	-	-	-	-	< 60.3	< 692	< 36.8
		2002 04 (Winter)	2.1 J	13.6	< 0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.8	19.3	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M005-A	2007 01 (Spring)	< 3.0	15.3	< 0.50	< 5.0	-	-	-	< 5.0	38.4 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.44	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	24.1	< 0.50	< 5.0	-	-	-	< 5.0	52.7 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	14.0	< 750	16.9
		2006 01 (Spring)	< 3.0	21.6	0.29 J	< 5.0	0.29	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	0.19 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	16.2 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	19.3	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	31.5 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
	M006-A	2007 01 (Spring)	2.7 J	6.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.39	-	< 0.20	0.31	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	13.2	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.25	-	< 0.20	0.11 J	-	15.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	11.8 J	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.23	-	< 0.20	0.33	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	13.1	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	13.7 J	< 0.50	2.2 J	2.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	7.2	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 1.6	15.2	< 0.57	< 2.7	-	-	-	< 2.0	< 148	< 60.3	< 164	< 13.1	< 30.2	< 171	< 1240	< 319	-	-	-	-	-	58.2	< 535	< 17.4
		2003 02 (Summer)	< 1.2	12.9	< 2.1	< 3.9	-	-	-	< 2.3	448	< 43.1	< 127	< 26.3	< 51.9	< 186	< 1840	< 29.3	-	-	-	-	-	< 31.0	< 632	< 47.7
		2002 04 (Winter)	< 1.5 UJ	14.5	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.7	9.9	< 0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M007-A	2007 01 (Spring)	< 3.0	26.2	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.16 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M007-A	2006 03 (Fall)	< 3.0	< 3.0	1.5	< 5.0	1.5	-	-	< 5.0	< 100	< 20.0	< 50.0	7.7 J	< 10.0	< 500	-	< 250	1.9	-	< 0.20	1.4	-	< 10.0	< 750	10.5
		2005 02 (Summer)	< 3.0 UJ	9.4 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	6.2 J	< 0.50	2.9 J	2.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	5.7	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 0.77	11.2	1.5	< 4.1	1.5	-	-	< 2.0	< 301	< 54.2	< 194	< 19.9	< 44.0	< 170	< 1380	< 196	-	-	-	-	-	62.2	< 606	< 33.8
		2003 02 (Summer)	< 1.2	9.3	< 1.7	< 3.2	-	-	-	< 2.2	< 301	< 40.8	< 110	< 32.4	< 50.7	< 182	< 1560	< 217	-	-	-	-	-	50.6	< 636	< 28.0
		2002 04 (Winter)	< 0.91 UJ	7.7	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 4.9	12.5	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M025-A	2007 01 (Spring)	2.0 J	4.8	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	119	1.2	1.7 J	2.9	-	-	< 5.0	98.6 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	9.2	0.65	< 5.0	0.65	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.097 J	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	47.3	2.1	< 5.0	2.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 27.7	102	0.95	< 5.0	0.95	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 10.3 UJ	28.0	1.8	< 5.0	1.8	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 968	< 10.0
		2003 04 (Winter)	< 11.9 UJ	77.3	1.6	< 3.5	1.6	-	-	< 2.2	< 148	< 59.5	< 102	< 19.2	< 46.2	< 175	< 1740	< 211	-	-	-	-	-	< 12.0	< 699	< 43.6
		2003 02 (Summer)	< 3.8	29.2	3.7	< 4.0	3.7	-	-	< 2.3	865	< 26.3	< 203	< 27.5	< 28.7	< 144	< 323	< 84.5	-	-	-	-	-	45.7	< 628	< 22.5
		2002 04 (Winter)	< 18.9 UJ	95.5	< 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.3	< 130	< 0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M026-A	2007 01 (Spring)	24.9	112 J	< 0.50	< 5.0	-	-	-	< 5.0	115	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.61	-	< 0.20	0.24	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	259	< 0.50	< 5.0	-	-	-	< 5.0	269	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.98	-	< 0.20	0.96	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	25.9 J	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.23	-	< 0.20	0.16 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	179	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 39.5	121 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 34.0	210	< 0.17	< 0.77	-	< 9.6	< 11.6	< 0.64	< 200	< 49.0	< 134	< 16.7	< 12.1	< 380	-	< 103	0.73	< 0.20	-	0.61	-	< 23.0 UJ	-	< 22.0 UJ
		2003 04 (Winter)	< 64.1 UJ	243	< 0.56	< 3.5	-	-	-	< 1.9	< 21.0	< 52.2	< 95.5	< 37.1	< 36.0	< 173	< 1660	< 214	-	-	-	-	-	< 5.0	< 695	< 36.2
		2003 02 (Summer)	< 45.0	190	< 2.1	< 3.8	-	-	-	< 2.0	< 271	< 32.4	< 148	< 29.2	< 63.1	< 178	< 1800	< 2.2	-	-	-	-	-	< 44.0	< 820	< 32.1
		2002 04 (Winter)	< 10.0 UJ	59.5	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M026-A	2002 02 (Summer)	< 9.9	271	< 0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M026-E	2005 02 (Summer)	< 3.0	52.1	0.33 J	< 5.0	0.33	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 29.4	106 J	0.48 J	< 5.0	0.48	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 9.6	40.0	< 0.18	< 0.81	-	< 7.9	< 9.2	< 0.49	< 120	< 31.0	< 114	< 12.8	< 7.2	< 380	-	< 126	< 0.20	< 0.20	-	< 0.20	-	< 22.0 UJ	-	< 20.0 UJ
		2003 04 (Winter)	< 55.8	188	< 0.98	< 4.4	-	-	-	< 1.8	< 228	< 52.5	< 212	< 16.3	< 54.2	< 169	< 1710	< 0.0000	-	-	-	-	-	59.5	< 650	< 31.3
		2003 02 (Summer)	< 7.6	40.2	< 2.5	< 3.7	-	-	-	< 2.0	809	< 55.1	< 106	< 25.8	< 46.4	< 180	< 1040	< 180	-	-	-	-	-	48.5	< 699	< 53.1
		2002 04 (Winter)	< 38.3 UJ	150	1.4	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.99	64.3	0.87	-	0.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-A	2007 01 (Spring)	< 3.0	37.2	0.33 J	< 5.0	0.33	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.26	-	< 0.20	0.16 J	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	23.4	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.31	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	31.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	0.10 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	44.7	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	37.4	0.24 J	< 5.0	0.24	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 4.2	33.7 J	0.27 J	< 5.0	0.27	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 5.4	20.6	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 2.7	48.4	0.24	< 0.83	0.24	< 3.0	-	< 0.64	< 34.5	< 11.6	< 22.8	< 4.8	< 3.0	< 170	< 352	< 61.0	0.21	< 0.025	-	0.14	-	< 5.8	106	< 6.2
		2003 04 (Winter)	< 5.6 UJ	44.1	0.80	< 4.0	0.80	-	-	< 2.1	443	< 53.9	< 112	< 26.9	< 35.3	< 176	< 2100	< 115	-	-	-	-	-	< 14.0	< 703	< 32.7
		2003 03 (Fall)	< 3.2	47.5	1.2	< 3.8	1.2	-	-	< 1.9	< 213	< 37.8	< 154	< 34.0	< 25.5	< 181	< 1970	< 69.0	-	-	-	-	-	< 14.0	< 199	< 43.8
		2003 02 (Summer)	< 4.4	41.2	< 3.2	< 3.5	-	-	-	< 2.2	< 214	< 50.4	< 207	< 26.3	< 49.8	< 188	< 1400	< 109	-	-	-	-	-	< 49.3	< 692	< 23.3
		2003 01 (Spring)	< 5.7 UJ	40.6	< 1.3	< 5.3	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 179	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.8 UJ	33.5	< 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.9	58.1	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	7.5	30.2	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M028-A	2007 01 (Spring)	1.2 J	21.4 J	0.42 J	< 5.0	0.42	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 03 (Fall)	< 3.0	31.4	0.98	< 5.0	0.98	-	-	0.71 J	-	< 20.0	< 50.0	< 15.0	< 10.0	411 J	-	< 250	< 0.20	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	15.6 J	0.45 J	< 5.0	0.45	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	1.3 J	30.7	0.75	< 5.0	0.75	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-A	2005 01 (Spring)	< 3.0 UJ	31.1	0.73	< 5.0	0.73	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	24.1 J	0.60	< 5.0 UJ	0.60	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	31.6	< 0.54	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.92	20.3	0.50	< 0.86	0.50	< 2.3	-	< 0.66	< 32.8	< 9.7	< 18.7	< 3.4	< 2.3	< 169	< 295	< 63.8	< 0.028	< 0.026	-	< 0.034	-	< 4.2	< 277	< 4.1
		2003 04 (Winter)	< 1.5 UJ	28.6	1.3	< 3.4	1.3	-	-	< 1.7	< 103	< 52.4	< 159	< 23.1	< 12.0	< 173	< 1250	< 267	-	-	-	-	-	< 15.8	< 532	< 22.7
		2003 03 (Fall)	4.6	49.8	1.5	< 3.5	1.5	-	-	< 2.6	< 205	< 72.4	< 220	< 17.0	< 58.8	< 160	< 1760	< 292	-	-	-	-	-	< 37.2	< 363	< 43.6
		2003 02 (Summer)	< 1.1	29.7	< 1.0	< 2.9	-	-	-	< 1.6	413	< 53.4	< 152	< 17.5	< 83.6	< 179	< 1530	< 131	-	-	-	-	-	< 42.0	< 731	< 32.6
		2003 01 (Spring)	< 1.6 UJ	23.4	1.9	< 4.3	1.9	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 178	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.2 UJ	22.6	< 0.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	2.9	44.3	0.87 J	-	0.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.8	30.1	0.67	-	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M028-E	2007 01 (Spring)	< 3.0	38.3	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	31.4	0.34 J	1.7 J	2.0	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	28.7	< 0.50	< 5.0	-	-	-	< 5.0	47.9 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	44.9	0.19 J	< 5.0	0.19	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	35.5	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.1	30.1 J	0.24 J	< 5.0 UJ	0.24	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 4.5	39.9	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 1.0	35.5	0.16	1.9	2.0	< 3.6	-	< 0.78	< 76.7	< 17.8	< 32.0	< 6.1	< 4.0	< 174	< 501	< 125	< 0.033	< 0.028	-	< 0.023	-	< 7.6	< 875	< 7.1
		2003 04 (Winter)	< 3.4 UJ	41.3	< 0.54	< 4.1	-	-	-	< 2.1	< 219	< 46.6	< 196	< 27.2	< 31.0	< 162	< 2100	< 170	-	-	-	-	-	< 19.0	< 758	< 53.5
		2003 03 (Fall)	< 4.7	52.3	< 1.1	< 3.5	-	-	-	< 1.9	< 180	< 61.8	< 149	< 28.0	< 50.2	< 182	< 1830	< 435	-	-	-	-	-	< 38.1	< 231	< 39.7
		2003 02 (Summer)	< 2.8	47.0	< 0.82	< 3.0	-	-	-	< 1.6	610	< 48.9	< 208	< 35.5	< 53.9	< 176	< 929	< 215	-	-	-	-	-	< 47.3	< 697	< 20.0
		2003 01 (Spring)	< 2.2 UJ	40.0	< 0.74	< 5.9	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 182	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.5 UJ	36.3	0.94	-	0.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M029-A	2007 01 (Spring)	< 3.0	29.7 J	0.32 J	< 5.0	0.32	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 03 (Fall)	< 3.0	23.5	< 0.50	< 5.0	-	-	-	< 5.0	66.5 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	19.7 J	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-A	2005 02 (Summer)	< 3.0 UJ	13.9 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	18.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	14.0 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	8.9	24.7	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 1.6	22.2	< 0.96	< 0.98	-	-	-	< 2.0	< 132	< 22.6	< 75.0	< 8.9	< 23.4	< 181	< 868	< 108	-	-	-	-	-	20.8	< 264	32.2
		2003 04 (Winter)	< 2.0 UJ	28.5	< 0.63	< 3.8	-	-	-	< 2.3	< 396	< 51.6	< 53.4	< 11.0	< 54.3	< 179	< 1940	< 271	-	-	-	-	-	< 28.0	< 672	< 41.4
		2003 03 (Fall)	< 1.1	28.5 J	< 1.2	< 4.1	-	-	-	< 1.8	< 90.0 UJ	< 68.5	< 26.1	< 19.5	< 22.9	< 219	< 1490	< 162	-	-	-	-	-	< 66.6	< 525	< 44.6
		2003 02 (Summer)	< 1.4	26.2	< 1.00	< 2.8	-	-	-	< 1.7	419	< 58.2	< 87.6	< 22.0	< 32.6	< 180	< 2170	< 113	-	-	-	-	-	< 83.4	< 634	< 19.7
		2003 01 (Spring)	< 1.9 UJ	25.1	< 0.94	< 3.9	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 179	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.4 UJ	26.4	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 7.2	30.8	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	0.93	15.1	< 0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M029-E	2005 02 (Summer)	< 3.0	16.4	0.51	< 5.0	0.51	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 4.0	14.6 J	0.57	< 5.0 UJ	0.57	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	140	65.7	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 780	< 10.0
		2003 04 (Winter)	< 2.1 UJ	26.9	1.0	< 3.5	1.0	-	-	< 1.6	< 334	< 64.2	< 57.9	< 13.5	< 53.8	< 162	< 1220	< 137	-	-	-	-	-	< 52.4	< 758	< 23.4
		2003 02 (Summer)	< 2.0	23.5	< 0.84	< 3.0	-	-	-	< 2.5	< 333	< 57.1	< 171	< 32.7	< 31.2	< 174	< 1230	< 122	-	-	-	-	-	< 42.0	< 656	< 19.4
		2002 04 (Winter)	< 1.4 UJ	22.1	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.5	9.5	< 0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M030-A	2007 01 (Spring)	0.92 J	4.0 J	< 0.50	2.3 J	2.3	-	-	< 5.0	< 100	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	0.30	-	0.052 J	0.21	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	4.8	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.39	-	< 0.20	0.31	-	-	< 750	< 10.0
		2006 01 (Spring)	2.3 J	51.4 J	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.63	-	< 0.20	0.35	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	5.7	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	4.5	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	3.8 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	7.2	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.55	5.5	< 0.13	< 0.80	-	< 3.5	-	< 0.80	< 74.3	< 15.3	< 28.9	< 4.9	< 5.2	< 173	< 452	< 92.0	0.31	< 0.025	-	0.18	-	< 6.4	< 227	< 6.2

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M030-A	2003 04 (Winter)	< 0.38	4.3	< 0.63	< 3.5	-	-	-	< 2.1	< 195	< 67.2	< 28.9	< 15.7	< 38.5	< 169	< 1540	< 281	-	-	-	-	-	71.9	< 620	< 28.5
		2003 03 (Fall)	< 0.38	6.9 J	< 0.65	< 4.3	-	-	-	< 2.0	< 350 UJ	< 57.1	< 107	< 17.6	< 25.5	< 184	< 1060	< 316	-	-	-	-	-	< 56.7	< 740	< 28.7
		2003 02 (Summer)	< 0.37	6.3	< 2.2	< 4.1	-	-	-	< 2.2	701	< 50.6	< 189	< 29.8	< 36.4	< 187	< 1160	< 15.4	-	-	-	-	-	< 39.3	< 574	< 27.9
		2003 01 (Spring)	< 0.49 UJ	4.4	< 0.93	< 3.5	-	-	-	< 3.0	< 201	< 52.0	< 197	< 27.0	< 24.0	< 178	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.47 UJ	3.0	< 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.9	9.2	< 0.68 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.81	3.6	< 0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M031-A	2007 01 (Spring)	1.3 J	9.9	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.25	-	< 0.20	< 0.36	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	11.2	< 0.50	2.5 J	2.5	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	0.075 J	-	< 10.0	< 750	12.1
		2006 01 (Spring)	< 3.0	6.8	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.91	-	< 0.20	0.64	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	16.3	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	10.8	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	13.0 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	13.8	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 784	< 10.0
		2004 01 (Spring)	< 0.73	11.4	< 1.2	< 1.0	-	-	-	< 1.8	< 61.9	< 21.6	< 95.6	< 10.7	< 25.7	< 184	< 807	< 82.8	-	-	-	-	-	< 11.3	< 238	< 15.9
		2003 04 (Winter)	2.9 J	11.4	< 0.72	< 3.6	-	-	-	< 1.7	< 375	< 77.5	< 172	< 17.4	< 33.5	< 159	< 1920	< 107	-	-	-	-	-	< 17.0	< 764	30.2
		2003 03 (Fall)	< 0.68	15.6 J	< 0.92	< 4.1	-	-	-	< 1.9	< 182 UJ	< 58.9	< 154	< 21.8	< 46.4	< 183	< 1160	< 234	-	-	-	-	-	< 52.6	< 567	< 35.2
		2003 02 (Summer)	< 0.83	13.8	< 0.78	< 3.5	-	-	-	< 1.8	447	< 57.1	< 109	< 21.3	< 52.5	< 187	< 1550	< 35.2	-	-	-	-	-	< 35.5	< 742	< 28.3
		2003 01 (Spring)	< 0.56 UJ	12.6	< 1.1	< 3.6	-	-	-	< 1.9	< 237	< 52.0	< 197	< 27.0	< 24.0	< 175	< 1190	< 184	-	-	-	-	-	< 122	< 602	< 34.0
		2002 04 (Winter)	< 0.79 UJ	10.7	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.5	17.6	< 0.64 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.7	14.9	< 0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M032-A	2007 01 (Spring)	< 3.0	10.9	< 0.50	< 5.0	-	-	-	113	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.14 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	12.4	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	0.059 J	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	10.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.27	-	0.026 J	0.24	1.6	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	15.5	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	15.0 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M032-A	2004 02 (Summer)	< 3.0	12.1	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 1.3 UJ	15.0	< 0.45	< 3.6	-	-	-	< 2.4	< 198	< 59.9	< 98.2	< 18.7	< 26.0	< 173	< 1790	< 233	-	-	-	-	-	< 0.41	< 678	< 34.4
		2003 02 (Summer)	< 1.4	16.1	< 0.78	< 2.8	-	-	-	< 1.7	595	< 78.2	< 121	< 36.4	< 36.2	< 180	< 1640	< 174	-	-	-	-	-	< 48.5	< 744	< 33.6
		2002 04 (Winter)	< 7.3	158	< 0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	15.1	13.6	< 0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M033-A	2007 01 (Spring)	< 3.0	10.4	< 0.50	3.7 J	3.7	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.19 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	10.8	0.14 J	< 5.0	0.14	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 01 (Spring)	< 3.0	10.5	< 0.50	1.9 J	1.9	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	15.8	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	8.1	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	10.5 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	14.4	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.75	12.8	< 0.86	< 1.0	-	-	-	< 1.8	< 60.1	< 18.4	< 98.4	< 11.8	< 24.5	< 184	< 680	< 125	-	-	-	-	-	21.6	< 237	< 14.6
		2003 04 (Winter)	< 1.5 UJ	15.1	< 0.56	< 3.8	-	-	-	< 1.9	< 245	< 55.0	< 136	< 25.8	< 35.4	< 176	< 1700	< 98.0	-	-	-	-	-	< 20.0	< 670	< 25.8
		2003 03 (Fall)	< 1.6	21.0	< 1.1	< 4.1	-	-	-	< 2.3	< 342	< 70.7	< 117	< 24.1	< 39.8	< 171	< 1560	< 215	-	-	-	-	-	< 39.8	< 747	< 28.4
		2003 02 (Summer)	< 1.2	14.9	< 0.87	< 3.3	-	-	-	< 2.2	482	< 52.6	< 122	< 22.9	< 33.6	< 173	< 1050	< 291	-	-	-	-	-	< 46.4	< 832	< 21.5
		2003 01 (Spring)	< 1.4 UJ	15.3	< 0.86	< 5.0	-	-	-	< 2.0	< 201	< 52.0	< 197	< 27.0	< 24.0	< 182	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.97 UJ	15.9	< 0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 2.3	11.7	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.0	18.2	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M034-A	2007 01 (Spring)	< 3.0	38.8	< 0.50	1.5 J	1.5	-	-	4.5 J	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	26.3	< 0.50	< 5.0	-	-	-	3.9 J	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	22.2 J	< 0.50	< 5.0	-	-	-	4.8 J	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	29.4	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	22.7	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	19.7 J	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	15.2	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M034-A	2004 01 (Spring)	< 0.32	4.1	< 0.80	1.6	1.6	-	-	4.4	< 183	< 34.2	< 110	< 18.1	< 17.6	811	< 932	< 110	-	-	-	-	-	23.8	< 223	< 25.1
		2003 04 (Winter)	< 1.9 UJ	24.1	< 0.72	< 3.7	-	-	-	5.0	< 311	< 64.2	< 72.9	< 32.2	< 26.6	< 161	< 1230	< 75.6	-	-	-	-	-	< 18.4	< 584	52.3
		2003 03 (Fall)	< 0.98	26.7	< 1.2	< 3.8	-	-	-	5.3	< 121	< 32.6	< 104	< 19.3	< 13.5	< 410	< 984	< 97.9	-	-	-	-	-	< 22.7	< 364	< 13.7
		2003 02 (Summer)	< 1.2	30.4	< 1.1	< 3.6	-	-	-	4.8	873	< 83.1	< 127	< 21.1	< 25.6	< 184	< 1770	< 109	-	-	-	-	-	< 47.6	< 591	< 32.9
		2003 01 (Spring)	< 0.57 UJ	15.4	< 1.0	< 4.2	-	-	-	< 2.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 182	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.82	18.3	< 0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	29.3	27.7	< 0.64 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.6	26.2	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M035-A	2007 01 (Spring)	< 3.0	6.7	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.29	-	< 0.20	< 0.18	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	6.9	< 0.50	< 5.0	-	-	-	< 5.0	-	-	< 50.0	-	< 10.0	< 500	-	-	0.22	-	0.045 J	0.19 J	-	9.7 J	-	-
		2005 02 (Summer)	< 3.0	7.8	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	1.6 J	3.4	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	1.3 J	7.9 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0 UJ	5.0	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 1130	< 10.0
		2004 01 (Spring)	< 2.4	< 3.5	< 0.80	< 0.76	-	-	-	< 1.6	213	< 25.5	< 84.9	< 9.8	< 21.5	< 184	< 981	< 86.9	-	-	-	-	-	< 18.1	< 260	15.3
		2003 04 (Winter)	< 0.78 UJ	6.3	< 0.64	< 3.9	-	-	-	< 2.1	< 271	< 29.7	< 71.5	< 29.2	< 23.0	< 174	< 1130	< 275	-	-	-	-	-	< 17.0	< 684	41.0
		2003 03 (Fall)	< 0.87	9.4	< 0.75	< 3.7	-	-	-	< 1.8	< 281	< 51.3	< 163	< 47.4	< 65.0	< 182	< 2400	< 179	-	-	-	-	-	< 52.7	< 285	< 55.2
		2003 02 (Summer)	< 2.6	9.7	< 0.86	< 2.7	-	-	-	< 2.0	664	< 59.3	< 172	< 35.3	< 33.2	< 181	< 2340	< 114	-	-	-	-	-	< 27.8	< 513	< 40.0
		2003 01 (Spring)	< 1.3 UJ	6.6	< 0.74	< 4.2	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.2	2.7	0.70	-	0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.7	8.7	< 0.64 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.8	9.6	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWBZ	M001-B	2007 01 (Spring)	< 3.0	125	0.98	1.8 J	2.8	-	-	< 5.0	105	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	4.7	-	< 0.20	3.3	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	108	1.1	< 5.0	1.1	-	-	< 5.0	106	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.9	-	< 0.20	2.8	-	8.6 J	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	377 J	0.84	3.4 J	4.3	-	-	< 5.0	62.1 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.7	-	0.14 J	3.1	0.72	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	< 3.0	0.95	2.1 J	3.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 50.9	< 29.8	0.86	< 5.0 UJ	0.86	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M001-B	2004 02 (Summer)	< 40.7	< 32.1	0.87	< 5.0	0.87	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.3	-	-	2.4	-	< 10.0	< 931	< 10.0
		2003 04 (Winter)	< 31.9	95.8	0.89	< 6.1	0.89	-	-	< 2.0	< 385	< 50.2	< 145	< 20.4	< 39.0	< 170	< 1240	< 325	-	-	-	-	-	59.0	< 660	< 31.6
		2003 02 (Summer)	< 62.4	< 88.3	8.4	< 4.3	8.4	-	-	< 1.7	< 276	< 11.5	< 155	< 26.0	< 52.0	< 184	< 2040	< 32.1	-	-	-	-	-	< 31.9	< 705	< 43.1
		2002 04 (Winter)	< 44.5 UJ	< 67.4	2.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	12.0	139	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M003-B	2007 01 (Spring)	< 3.0	167	1.4	2.8 J	4.2	-	-	< 5.0	199	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.23	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	172	1.8	2.2 J	4.0	-	-	< 5.0	199	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.62	-	< 0.20	0.54	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	241	1.2	< 5.0	1.2	-	-	< 5.0	179	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.22	-	< 0.20	0.27	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	144	0.83	2.7 J	3.5	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 52.9	66.6 J	1.6	< 5.0 UJ	1.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 29.8	93.2	1.2	< 5.0	1.2	< 5.0	< 5.0	< 5.0	216	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.59	-	-	< 0.50	-	< 10.0	< 1030	< 10.0
		2003 04 (Winter)	< 36.8	227	1.5	< 4.7	1.5	-	-	< 2.1	< 261	< 61.4	< 183	< 18.1	< 57.9	< 199	< 1190	< 168	-	-	-	-	-	50.9	< 645	< 23.4
		2003 02 (Summer)	< 37.2	190	5.0	11.5	16.5	-	-	< 2.2	559	< 39.4	< 107	< 36.1	< 42.6	< 174	< 1480	< 180	-	-	-	-	-	55.8	< 779	< 42.8
		2002 04 (Winter)	< 46.0 UJ	194	3.1	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	7.3	182	0.75	-	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M025-C	2007 01 (Spring)	< 3.0	52.3 J	0.61	< 5.0	0.61	-	-	< 5.0	114	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	50.6	0.46 J	2.0 J	2.5	-	-	< 5.0	75.0 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	44.2 J	0.45 J	2.1 J	2.5	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	0.065 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	58.2	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 14.0	22.3	0.52	< 5.0	0.52	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 13.1	26.4	< 0.52	< 5.0	-	< 5.0	< 5.0	< 5.0	< 101	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 10.3 UJ	59.4	< 0.83	< 3.6	-	-	-	< 2.2	< 91.0	< 38.8	< 176	20.0	< 44.7	< 174	< 1420	< 116	-	-	-	-	-	< 8.0	< 668	< 34.7
		2003 02 (Summer)	< 10.8	53.2	< 2.0	< 4.8	-	-	-	< 2.3	< 165	< 62.7	< 114	< 20.7	< 48.7	< 184	< 1560	< 51.8	-	-	-	-	-	< 26.9	< 645	< 35.7
		2002 04 (Winter)	< 6.1 UJ	56.4	1.8	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.99	< 67.0	< 0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-B	2007 01 (Spring)	< 3.0	136 J	0.71	< 5.0	0.71	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.33	-	< 0.20	0.33	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	200	0.77	< 5.0	0.77	-	-	< 5.0	87.4 J	< 20.0	< 50.0	< 15.0	< 10.0	418 J	-	< 250	0.24	-	< 0.20	0.19 J	-	< 10.0	< 750	< 10.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M027-B	2006 01 (Spring)	< 3.0 UJ	32.4 J	< 0.50	< 5.0	-	-	-	< 5.0	60.5 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.22	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	62.3 J	1.2	3.3 J	4.5	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 15.7	40.2 J	0.78	< 5.0	0.78	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 18.3	25.8	1.0	< 5.0	1.0	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.58	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 21.0	< 33.6	1.5	< 4.2	1.5	-	-	< 2.2	< 328	< 57.2	< 189	< 25.5	< 32.6	< 171	< 1010	< 163	-	-	-	-	-	59.7	< 840	< 35.3
		2003 02 (Summer)	< 28.4	80.5	2.1	< 3.6	2.1	-	-	< 2.1	376	< 16.0	< 223	< 26.0	< 39.8	< 178	< 1890	< 180	-	-	-	-	-	< 35.8	< 516	< 32.8
		2002 04 (Winter)	< 25.8 UJ	< 35.9	< 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 3.9	173	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-C	2007 01 (Spring)	< 3.0	184 J	1.0	< 5.0	1.0	-	-	< 5.0	103	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.5	-	0.075 J	1.1	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	59.0	1.4	1.8 J	3.2	-	-	< 5.0	93.0 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.6	-	< 0.20	1.1	-	8.2 J	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	< 3.0	0.63	< 5.0	0.63	-	-	< 5.0	72.7 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.7	-	< 0.20	1.2	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	109 J	1.0	1.7 J	2.7	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 30.5	80.7 J	1.1	< 5.0	1.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 29.8	< 57.1	1.3	< 5.2	1.3	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.8	-	-	1.1	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 23.5 UJ	87.8	1.1	< 3.8	1.1	-	-	< 1.8	442	< 78.5	< 156	< 27.4	< 30.8	< 178	< 1510	< 246	-	-	-	-	-	< 29.0	< 735	< 19.5
		2003 02 (Summer)	< 35.3	97.8	6.9	< 5.8	6.9	-	-	< 2.3	< 271	< 32.4	< 148	< 29.2	< 63.1	< 176	< 1800	< 2.2	-	-	-	-	-	< 44.0	< 820	< 32.1
		2002 04 (Winter)	< 30.4 UJ	101	2.5	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 3.9	117	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M028-C	2007 01 (Spring)	< 3.0	481 J	1.5	< 5.0	1.5	-	-	< 5.0	128	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.32	-	< 0.20	0.17 J	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	88.9	0.97	3.5 J	4.5	-	-	< 5.0	119	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	0.37	-	< 0.20	0.15 J	-	11.4	< 750	< 10.0
		2006 01 (Spring)	< 3.0	106	0.57	2.3 J	2.9	-	-	2.6 J	86.9 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.28	-	< 0.20	0.18 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	90.1	0.45 J	2.9 J	3.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	3.7	1.1	< 5.0	1.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 49.7	56.5 J	1.1	< 5.0 UJ	1.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 66.6	< 69.0	1.1	< 5.0	1.1	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 38.8	148	3.9	2.6	6.5	-	-	< 1.7	< 139	< 37.8	< 48.6	< 20.7	< 16.3	< 183	< 786	< 116	-	-	-	-	-	22.9	< 209	34.8
		2003 04 (Winter)	< 44.3	116	1.6	< 4.3	1.6	-	-	< 1.7	< 55.4	< 36.6	< 92.2	< 26.6	< 227	< 170	< 1370	< 172	-	-	-	-	-	< 36.0	< 790	31.6

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-8

Groundwater Sample Analytical Results Radionuclides at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M028-C	2003 03 (Fall)	< 43.1	108	1.4	11.8	13.2	-	-	< 1.7	< 187	< 80.2	< 110	< 32.0	< 41.8	< 179	< 1930	< 290	-	-	-	-	-	41.9	< 367	< 38.3
		2003 02 (Summer)	< 56.7	106	< 2.0	7.4	7.4	-	-	< 1.8	446	< 51.2	< 90.6	< 40.1	< 48.7	< 179	< 2010	< 101	-	-	-	-	-	< 29.8	< 733	< 28.3
		2003 01 (Spring)	< 51.7 UJ	137	3.2	9.7	12.9	-	-	< 1.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 181	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 31.5 UJ	119	1.9	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	5.7	92.9	0.91 J	-	0.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.1	265	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M030-C	2007 01 (Spring)	< 3.0	110	0.48 J	< 5.0	0.48	-	-	< 5.0	185	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.92	-	< 0.20	0.82	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	95.4	0.43 J	< 5.0	0.43	-	-	< 5.0	171	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.76	-	< 0.20	0.63	-	-	< 750	-
		2006 01 (Spring)	< 3.0	144	0.59	1.8 J	2.4	-	-	< 5.0	160	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.88	-	< 0.20	0.67	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	0.39 J	< 5.0	0.39	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 63.7	32.3 J	0.39 J	< 5.0 UJ	0.39	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 27.8	< 58.1	< 0.65	< 5.0	-	< 5.0	< 5.0	< 5.0	167	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.67	-	-	< 0.72	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 74.7 UJ	140	< 0.90	< 3.3	-	-	-	< 1.9	< 692	< 68.7	< 164	< 22.3	< 55.8	< 266	< 1350	< 264	-	-	-	-	-	< 7.0	< 643	< 25.1
		2003 02 (Summer)	< 61.6	187	< 1.4	4.3	4.3	-	-	< 2.5	774	< 35.8	< 211	< 28.4	< 50.5	< 176	< 1600	< 132	-	-	-	-	-	< 43.5	< 612	< 32.6
		2002 04 (Winter)	< 66.8 UJ	142	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	8.1	261	0.75	-	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M031-C	2007 01 (Spring)	< 3.0	89.8	1.1	2.4 J	3.5	-	-	< 5.0	141	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.14 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	94.9	1.3	< 5.0	1.3	-	-	< 5.0	103	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.25	-	< 0.20	0.14 J	-	-	< 750	-
		2006 01 (Spring)	< 3.0	7.6	1.3	2.5 J	3.8	-	-	4.8 J	63.8 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.094 J	-	< 0.20	< 0.20	< 0.0000	11.7	< 750	< 10.0
		2005 02 (Summer)	< 3.0	90.1	1.4	2.1 J	3.5	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 37.6	82.7 J	1.3	< 5.0	1.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 40.4 UJ	46.6	1.6	< 5.0	1.6	< 5.0	< 5.0	< 5.0	< 103	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 58.7 UJ	87.7	1.2	< 4.2	1.2	-	-	< 1.9	< 65.6	< 49.3	< 121	25.6	< 3.0	< 174	< 824	< 249	-	-	-	-	-	< 0.64	< 672	< 1.7
		2003 02 (Summer)	< 40.5	88.7	3.5	< 3.3	3.5	-	-	< 1.9	< 369	< 65.4	< 15.1	< 34.3	< 43.8	< 177	< 2170	< 16.7	-	-	-	-	-	< 66.2	< 520	< 24.3
		2002 04 (Winter)	< 38.6 UJ	108	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	4.2	250	0.62	-	0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M001-A	03/20/07	7.44	0.88	-36.6
		04/19/06	7.51	3.37	9.0
		08/25/05	7.35	0.85	-176.0
		03/16/05	7.35	0.09	-54.0
		11/22/04	7.75	0.45	-81.0
		06/16/04	7.56	0.17	-212.0
		04/05/04	7.51	0.18	65.0
		12/18/03	7.79	0.17	-137.0
		09/24/03	7.94	0.27	-68.0
		07/07/03	7.76	0.23	141.0
		04/15/03	7.69	0.18	98.0
		12/26/02	7.88	0.30	-24.0
		09/18/02	7.95	0.90	-99.2
		06/27/02	7.74	2.30	-63.0
First	M001-E	03/20/07	***8.87***	0.20	-163.5
		10/04/06	***8.66***	0.13	-286.7
		04/18/06	***8.80***	0.14	-268.0
		08/24/05	***9.59***	0.76	-303.0
		03/16/05	***8.72***	0.00	-288.0
		11/22/04	***8.71***	0.16	-40.0
		06/16/04	8.43	1.63	203.0
		03/09/04	8.41	0.14	89.0
		12/18/03	***8.54***	0.19	-206.0
		09/24/03	***8.74***	0.21	35.0
		07/08/03	***8.65***	0.13	110.0
		04/15/03	***8.79***	0.19	150.0
		12/26/02	***9.03***	0.00	-240.0
		09/18/02	***8.60***	0.50	-132.2
		06/27/02	6.65	4.20	-234.0
First	M002-A	03/20/07	7.39	0.97	-37.7
		10/04/06	6.85	0.82	17.3
		04/20/06	7.47	4.04	52.0
		08/25/05	6.63	0.53	3.0
		03/16/05	7.08	1.91	32.0
		11/22/04	6.79	1.72	215.0
		06/16/04	6.59	8.30	4.0
		04/06/04	6.79	1.18	154.0
		12/18/03	7.36	3.91	89.5
		09/24/03	6.88	1.14	97.0
		07/03/03	6.80	0.34	-298.0
		04/15/03	6.89	2.37	221.0
		12/26/02	7.46	6.40	-11.0
		09/19/02	6.67	7.70	24.5
		06/26/02	6.91	2.40	120.0
First	M003-A	03/20/07	7.31	1.99	34.6
		10/04/06	7.07	1.93	-13.9
		04/18/06	7.15	1.95	56.0

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M003-A	08/24/05	6.69	5.02	61.0
		03/16/05	6.32	0.06	-17.0
		11/22/04	6.98	0.17	142.0
		06/17/04	6.67	0.52	-152.0
		04/05/04	7.02	0.34	80.0
		12/19/03	7.26	0.26	34.0
		09/24/03	7.06	0.27	7.0
		07/07/03	7.15	0.14	22.0
		04/21/03	6.83	0.34	9.0
		12/26/02	6.85	1.12	2.0
		09/19/02	6.63	0.51	-40.0
		06/26/02	6.96	1.10	1.0
First	M004-A	03/21/07	14.51	5.82	292.2
		04/18/06	6.89	3.30	140.0
		08/25/05	6.97	0.83	-41.0
		11/23/04	6.92	0.77	188.0
		06/17/04	6.82	1.96	-41.0
		12/18/03	7.06	0.48	74.0
		07/07/03	7.24	0.11	44.0
		12/26/02	7.25	4.57	130.0
		06/26/02	7.22	2.20	115.0
First	M005-A	03/20/07	7.03	0.94	319.7
		10/04/06	7.33	0.41	-136.7
		04/17/06	7.54	0.76	-104.0
		08/24/05	6.75	0.41	-156.0
		03/16/05	6.45	0.00	-171.0
		11/23/04	7.22	0.66	-23.0
		06/17/04	7.11	0.32	-67.0
First	M006-A	03/21/07	6.62	0.08	78.5
		10/04/06	6.87	0.77	-79.5
		04/18/06	6.96	0.82	4.0
		08/25/05	6.70	0.48	-47.0
		11/23/04	6.75	0.72	108.0
		06/17/04	6.42	0.32	-48.0
		12/18/03	6.82	0.26	-159.0
		07/07/03	6.63	0.21	85.0
		12/26/02	6.72	0.02	-12.0
		06/26/02	6.72	0.01	-54.8
First	M007-A	03/21/07	7.30	0.63	-43.8
		10/04/06	7.11	0.84	-0.5
		08/29/05	7.48	0.00	-200.0
		11/23/04	7.09	0.55	128.0
		06/18/04	7.26	0.28	-74.0
		12/18/03	7.21	0.27	14.0
		07/07/03	7.58	0.23	141.0
		12/26/02	7.64	0.01	-104.0
		06/26/02	7.27	0.16	-75.0

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M025-A	03/22/07	8.15	0.46	-204.6
		10/04/06	7.44	0.37	-318.2
		04/20/06	7.93	0.94	-217.0
		08/26/05	7.50	3.99	-293.0
		03/16/05	7.33	0.00	-353.0
		11/24/04	7.82	0.18	-129.0
		06/21/04	7.41	0.24	-275.0
		04/05/04	7.84	0.12	268.0
		12/19/03	7.66	0.29	109.0
		09/30/03	7.76	0.22	-242.0
		07/07/03	7.80	0.16	-272.0
		04/15/03	8.37	0.16	-183.0
		12/27/02	7.50	4.57	-90.0
		09/18/02	7.09	0.28	-248.0
		07/01/02	7.80	0.15	-183.2
First	M026-A	03/21/07	7.29	1.46	-51.2
		10/04/06	7.47	0.09	84.2
		04/18/06	7.53	0.40	-51.0
		08/26/05	8.33	2.73	51.0
		11/23/04	7.58	4.41	45.0
		06/24/04	7.02	2.41	-111.0
		12/19/03	7.16	4.93	185.0
		07/07/03	7.46	1.56	-177.0
		12/27/02	7.93	4.29	7.0
		07/01/02	7.50	2.50	120.0
First	M026-E	08/26/05	8.08	0.89	-204.0
		11/23/04	7.20	0.13	48.0
		06/24/04	7.33	0.32	-204.0
		12/18/03	6.87	0.18	-173.0
		07/07/03	7.30	0.18	-144.0
		12/27/02	7.67	3.91	-127.0
		07/01/02	7.85	2.10	-115.0
First	M027-A	03/21/07	12.32	1.29	276.7
		10/04/06	6.83	0.37	-267.1
		04/19/06	7.12	1.06	34.0
		08/26/05	6.55	0.35	-29.0
		03/16/05	7.20	0.00	-14.0
		11/23/04	7.25	0.16	38.0
		06/17/04	6.79	6.10	-31.0
		04/05/04	7.05	0.17	112.0
		12/19/03	7.24	0.59	-54.9
		09/24/03	6.95	0.54	-91.0
		07/07/03	7.21	0.37	164.0
		04/15/03	7.10	2.20	-47.0
		12/27/02	6.99	0.02	1.0
		09/18/02	6.97	1.90	-76.7
		06/28/02	7.18	0.80	43.0

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M027-E	08/26/05	6.70	0.65	-156.0
		03/16/05	7.85	0.00	-175.0
		11/23/04	7.22	0.16	-28.0
		06/17/04	7.02	***23.80***	-84.0
		03/10/04	7.99	0.05	-45.0
		12/19/03	7.29	0.69	-122.1
		09/24/03	7.15	0.29	-165.0
First	M028-A	03/21/07	7.48	0.60	-119.4
		10/05/06	6.92	0.27	120.3
		04/18/06	6.80	0.06	-61.0
		09/07/05	7.00	3.17	-107.0
		03/16/05	7.21	0.62	-130.0
		11/22/04	6.81	1.55	-13.0
		06/16/04	6.63	***9.70***	-100.0
		04/05/04	6.92	0.68	14.0
		12/19/03	7.16	0.56	-62.0
		09/24/03	6.98	0.16	-160.0
		07/08/03	7.36	0.15	24.0
		04/15/03	7.10	2.60	-84.0
		12/27/02	7.34	0.06	-91.0
		09/18/02	6.94	0.45	-168.0
		07/01/02	7.32	2.20	-120.0
First	M028-E	03/22/07	17.15	3.87	336.9
		10/04/06	6.41	0.21	-287.4
		04/19/06	7.04	0.00	-155.0
		08/25/05	6.55	0.00	-159.0
		03/16/05	6.99	0.00	-199.0
		11/22/04	6.33	0.36	-40.0
		06/17/04	6.29	1.70	-143.0
		04/05/04	6.52	0.13	-179.0
		12/19/03	6.86	0.74	-162.3
		09/24/03	6.63	0.10	-144.0
		07/08/03	6.57	0.09	9.0
		04/16/03	6.47	0.19	-25.0
		12/31/02	7.03	3.96	-124.0
First	M029-A	03/21/07	8.07	0.38	-129.7
		10/05/06	7.88	0.19	-316.9
		04/18/06	7.59	0.03	-221.0
		08/25/05	***9.01***	0.78	-250.0
		03/16/05	8.15	0.00	-259.0
		11/22/04	8.17	0.13	-199.0
		06/16/04	8.00	0.21	-105.0
		03/10/04	8.25	0.38	77.0
		12/19/03	7.91	0.10	-183.3
		09/29/03	8.00	0.29	11.0
		07/08/03	7.96	0.25	-185.0
		04/15/03	8.00	2.20	-144.0

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Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M029-A	12/27/02	7.80	0.00	-167.0
		09/18/02	8.11	0.80	-196.7
		06/27/02	7.95	2.30	-139.0
First	M029-E	08/26/05	7.26	0.81	-230.0
		11/22/04	8.10	0.15	-200.0
		06/16/04	7.93	0.27	-90.0
		12/22/03	8.04	0.49	-17.0
		07/10/03	7.91	0.85	-173.0
		12/27/02	7.34	***12.26***	-206.6
		06/27/02	8.02	2.20	-152.0
First	M030-A	03/21/07	7.15	1.70	-11.0
		10/05/06	7.07	0.56	-198.4
		04/18/06	6.32	0.43	185.0
		08/25/05	7.26	0.27	-155.0
		03/16/05	6.17	0.00	73.0
		11/22/04	7.61	0.29	108.0
		06/17/04	7.19	0.67	-257.0
		04/05/04	6.95	1.95	175.0
		12/18/03	6.60	0.89	149.0
		09/29/03	7.34	0.39	155.0
		07/07/03	6.98	0.68	167.0
		04/15/03	6.50	8.90	213.0
		12/26/02	6.97	6.48	99.0
		09/19/02	7.45	0.30	-38.0
		06/27/02	6.55	2.60	-237.0
First	M031-A	03/22/07	7.08	0.58	28.2
		10/05/06	7.09	0.26	-270.8
		04/19/06	7.45	0.20	-159.0
		08/26/05	6.63	0.44	-161.0
		03/17/05	6.68	0.00	-115.0
		11/23/04	7.21	0.18	239.0
		06/17/04	6.94	0.18	-267.0
		03/10/04	7.31	0.18	84.0
		12/22/03	6.97	0.94	349.0
		09/29/03	7.43	0.19	51.0
		07/08/03	7.26	0.19	-80.0
		04/17/03	7.18	0.21	201.0
		12/27/02	6.16	0.77	14.1
		09/17/02	7.49	1.30	2.2
		06/28/02	7.22	2.30	-31.0
First	M031-E	08/25/05	8.34	0.75	-241.0
		03/17/05	6.44	0.00	-119.0
		11/23/04	7.62	0.11	111.0
		06/17/04	7.24	0.10	-279.0
		03/10/04	7.59	0.09	-28.0
		12/19/03	7.61	0.18	-103.0
		09/29/03	7.40	0.19	33.0

Table 7.1-9
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Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M032-A	03/22/07	6.92	0.60	-74.8
		10/05/06	7.08	0.49	-125.7
		04/19/06	7.41	0.09	732.0
		08/26/05	7.14	2.94	-144.0
		11/23/04	7.02	0.50	12.0
		06/17/04	6.86	0.26	-53.0
		12/19/03	7.06	0.32	172.0
		07/08/03	7.22	0.11	45.0
		12/30/02	6.79	8.82	-108.1
		06/26/02	7.11	0.09	-116.5
First	M033-A	03/22/07	16.71	1.59	305.6
		10/05/06	7.59	0.70	-108.9
		04/19/06	7.86	0.91	-226.0
		08/26/05	8.24	0.78	-196.0
		03/17/05	6.66	0.00	-214.0
		11/22/04	7.16	0.45	33.0
		06/16/04	7.38	0.21	-0.7
		03/10/04	7.69	0.43	81.0
		12/19/03	7.40	0.35	174.0
		09/25/03	7.47	0.31	-103.0
		07/10/03	7.72	0.15	-99.0
		04/16/03	7.33	0.13	121.0
		12/27/02	7.63	0.00	-208.0
		09/17/02	7.48	0.90	-159.3
		06/28/02	7.17	2.00	-85.0
First	M034-A	03/22/07	7.09	0.31	-110.7
		10/05/06	6.91	0.14	-190.4
		04/18/06	7.09	0.38	-145.0
		08/26/05	7.63	0.77	-182.0
		03/17/05	6.22	1.26	-189.0
		11/22/04	6.64	0.55	-24.0
		06/16/04	6.75	0.24	-0.6
		03/10/04	6.93	0.10	89.0
		12/22/03	7.03	1.21	-134.4
		09/25/03	6.84	0.40	-72.0
		07/08/03	7.00	0.15	-135.0
		04/16/03	6.74	0.24	42.0
		12/30/02	6.38	***36.92***	-138.5
		09/17/02	6.80	0.80	-125.7
		06/28/02	6.71	1.70	95.0
First	M035-A	03/22/07	7.34	0.44	-51.9
		10/05/06	7.24	0.27	-69.8
		04/19/06	7.12	1.10	10.0
		08/26/05	7.63	0.77	-182.0
		03/17/05	7.31	0.21	-72.0
		11/23/04	7.12	0.17	98.0
		06/21/04	6.63	3.40	110.0

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M035-A	03/10/04	7.20	0.50	106.0
		12/19/03	7.13	0.43	198.0
		09/24/03	7.14	0.43	4.0
		07/08/03	7.37	0.21	-99.0
		04/21/03	7.04	0.45	158.0
		12/30/02	6.52	***17.71***	23.1
		09/17/02	7.09	1.20	-47.4
		06/28/02	7.14	0.90	-127.0
Second	M001-B	03/20/07	7.17	0.76	-59.9
		10/04/06	7.05	0.38	-223.1
		04/18/06	6.87	0.11	-51.0
		08/25/05	7.65	0.80	-96.0
		11/22/04	7.08	0.18	81.0
		06/16/04	6.81	1.70	104.0
		12/18/03	6.80	0.16	-174.0
		07/07/03	7.05	0.14	210.0
		12/26/02	7.34	0.00	-95.0
		07/02/02	6.90	0.18	-46.1
Second	M003-B	03/20/07	7.13	0.43	-93.7
		10/04/06	6.63	0.03	63.7
		04/20/06	6.82	0.95	-128.0
		08/25/05	6.87	1.01	-121.0
		11/22/04	6.74	0.15	147.0
		06/16/04	6.76	0.30	-221.0
		12/18/03	6.69	0.25	-26.0
		07/07/03	6.99	0.12	52.0
		12/26/02	6.87	0.17	-81.0
		07/01/02	6.78	0.03	-82.3
Second	M025-C	03/21/07	7.08	0.52	-127.7
		10/04/06	6.84	0.34	-253.5
		04/18/06	6.83	0.29	-183.0
		08/26/05	7.10	3.11	-196.0
		03/17/05	6.41	0.96	-215.0
		11/24/04	7.19	0.20	-57.0
		06/21/04	6.94	0.19	-253.0
		03/09/04	7.73	0.08	-114.0
		12/19/03	6.86	0.17	-19.0
		09/30/03	7.23	0.32	-168.0
		07/07/03	7.24	0.09	-172.0
		04/15/03	6.96	0.20	-3.0
		12/26/02	7.38	0.00	-173.0
		09/19/02	6.86	NM	-162.0
		07/01/02	6.90	1.68	-150.9
Second	M027-B	03/21/07	18.08	5.40	344.4
		10/04/06	6.90	0.13	-181.0
		04/18/06	7.18	0.55	-167.0
		08/29/05	7.02	0.00	-216.0

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M027-B	11/23/04	7.10	0.20	-90.0
		06/17/04	6.89	3.70	-163.0
		12/18/03	6.92	0.38	36.0
		07/08/03	7.13	0.16	13.0
		12/27/02	7.19	0.00	-190.0
		07/02/02	6.97	0.18	-127.0
Second	M027-C	03/21/07	18.70	0.50	356.2
		10/04/06	6.92	0.10	-188.3
		04/18/06	7.19	0.48	-159.0
		08/29/05	7.01	0.00	-251.0
		11/23/04	7.12	0.24	-31.0
		06/17/04	6.88	3.50	-192.0
		12/19/03	7.14	1.09	-217.0
		07/07/03	6.94	0.16	-67.0
		12/27/02	7.16	4.36	-182.0
		07/02/02	6.97	0.12	-81.4
Second	M028-C	03/21/07	7.09	0.64	-135.6
		10/05/06	7.10	0.06	-156.4
		04/19/06	7.38	0.00	-182.0
		08/25/05	7.05	0.61	-204.0
		03/17/05	7.43	0.05	-236.0
		11/22/04	7.19	0.35	-113.0
		06/16/04	6.99	0.12	-290.0
		03/09/04	7.83	0.11	-144.0
		12/18/03	7.57	0.30	-181.2
		09/24/03	7.12	0.09	-140.0
		07/08/03	7.07	0.15	24.0
		04/16/03	7.24	0.11	-130.0
		12/27/02	7.48	0.10	-269.0
		09/18/02	7.07	0.22	-153.0
		07/02/02	7.06	0.42	-126.3
Second	M030-C	03/22/07	7.73	0.26	-158.0
		10/05/06	7.55	0.01	-287.4
		04/19/06	7.74	0.62	-231.0
		08/26/05	***8.51***	0.74	-227.0
		11/22/04	7.82	0.13	13.0
		06/17/04	7.49	0.13	-255.0
		12/19/03	7.70	0.18	-84.0
		07/08/03	7.86	0.14	-133.0
		12/26/02	8.22	3.59	-233.0
		07/15/02	7.66	2.50	-24.0
Second	M031-C	03/22/07	7.09	0.28	-151.7
		10/05/06	7.02	0.05	-132.6
		04/19/06	7.36	1.29	-252.0
		08/25/05	7.90	0.71	-247.0
		11/23/04	7.38	0.12	-19.0
		06/21/04	6.90	0.28	-253.0

Table 7.1-9
Groundwater Sampling Field Parameters at Operable Unit 3 - IR Sites 1 and 32
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M031-C	12/19/03	7.13	0.16	-146.0
		07/08/03	7.05	0.14	-67.0
		12/27/02	7.39	0.00	-242.0
		07/02/02	7.06	0.32	-87.6

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 7.1-10

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M002-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M003-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M004-A	2007 01 (Spring)	< 0.0050	< 0.0050	0.056	0.28	< 0.050	40.0	64.0	390	390	< 10.0	< 10.0	< 0.040	570
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	1.0	< 0.050	16.0	20.0	270	270	< 1.0	< 1.0	< 0.040	1820
		2005 02 (Summer)	< 0.0050	< 0.0050	0.99	< 0.050	< 0.050	87.0	26.0	410	410	< 1.0	< 1.0	< 0.040	530
		2004 04 (Winter)	< 0.0050	< 0.0050	0.12	0.090	< 0.050	93.0	33.0	480	480	< 1.0	< 1.0	< 0.040	640
		2004 02 (Summer)	< 0.010	< 0.010	0.18	0.020 J	< 0.050	100	34.0	460	460	< 1.0	< 1.0	< 0.040	610
		2003 04 (Winter)	0.0010 J	< 0.0030	0.63	< 0.10	< 0.10	121	27.8	498	498	< 5.0	-	< 1.0	-
		2003 02 (Summer)	0.0006 J	< 0.0030	0.29	< 0.10	< 0.10	104	35.9	411	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	2.4	< 0.050	53.0	63.0	450	450	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.20	< 0.050	< 0.050	130	26.0	450	450	< 1.0	< 1.0	< 0.040	-
	M006-A	*2002 02 (Summer)*	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M007-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M027-A	2007 01 (Spring)	< 0.0050	< 0.0050	0.31	0.060	< 0.10	610	150	550	550	< 10.0	< 10.0	< 0.040	1740
		2006 01 (Spring)	< 0.0050	< 0.0050	0.030	0.42	< 0.050	72.0	150	400	400	< 1.0	< 1.0	< 0.040	880
		2005 02 (Summer)	< 0.0050	< 0.0050	0.056	< 0.050	< 0.10	600	150	520	520	< 1.0	< 1.0	< 0.040	1280

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-10

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-A	2004 04 (Winter)	< 0.0050	< 0.0050	0.079	< 0.050	< 0.10	770	170	540	540	< 1.0	< 1.0	< 0.040	2020
		2004 02 (Summer)	< 0.010	< 0.010	0.035	0.030 J	< 0.10	600	180	550	550	< 1.0	< 1.0	< 0.040	1690
		2003 04 (Winter)	< 0.0030	< 0.0030	0.055	0.22	< 1.0	783	195 J	553	553	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.024	< 0.10	< 1.0	706	214	498	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.018	3.2	0.030 J	110	260	510	510	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.025	< 0.10	< 0.10	420	190	570	570	< 1.0	< 1.0	-	-
	M028-A	2005 02 (Summer)	1.8	< 0.0050	4.4	< 0.050	< 0.050	110	0.33 J	350	350	< 1.0	< 1.0	0.070	470
		2004 04 (Winter)	2.5	4.0	5.1	< 0.050	< 0.050	160	15.0	370	370	< 1.0	< 1.0	0.12 J	660
		2004 02 (Summer)	0.88	0.11	3.0	0.020 J	< 0.050	110	31.0	320	320	< 1.0	< 1.0	< 0.040	550
		2003 04 (Winter)	0.50	0.17	1.1	< 0.10	< 0.10	118	24.4	377	377	< 5.0	-	< 1.0	-
		2003 02 (Summer)	0.97	0.054	3.6	0.23	< 0.10	76.1	0.72	281	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	2.0	< 0.050	67.0	160	380	380	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	0.83	0.13	3.2	< 0.050	< 0.050	74.0	10.0	350	350	< 1.0	< 1.0	0.090	-
	M028-E	2007 01 (Spring)	2.2	14.0	13.0	< 0.050	< 0.050	380	< 0.50	380	380	< 10.0	< 10.0	< 0.040	1020
		2006 01 (Spring)	2.3	2.2	7.0	< 0.050	< 0.050	120	20.0	280	280	< 1.0	< 1.0	0.060	870
		2005 02 (Summer)	2.5	6.9	9.9	< 0.050	< 0.10	540	< 0.50	360	360	< 1.0	< 1.0	< 0.040	1200

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-10

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-E	2004 04 (Winter)	1.9	22.0	17.0	< 0.050	< 0.050	420	0.097 J	380	380	< 1.0	< 1.0	0.070 J	1330
		2004 02 (Summer)	2.6	13.0	14.0	0.090	< 0.10	570	< 0.50	380	380	< 1.0	< 1.0	< 0.040	1380
		2003 04 (Winter)	0.71	1.7	4.8	< 0.10	< 0.10	421	0.75	424	424	< 5.0	-	< 1.0	-
		2003 02 (Summer)	1.0	3.6	7.1	< 0.10	< 1.0	370	0.34 J	318	-	-	-	< 1.0	-
		2002 04 (Winter)	1.9	9.2	14.0	< 0.050	< 0.050	190	< 0.50	360	360	< 1.0	< 1.0	0.11	-
	M032-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M033-A	2007 01 (Spring)	0.0040 J	< 0.0050	2.1	0.080	< 0.050	22.0	14.0	320	320	< 10.0	< 10.0	< 0.040	420
		2006 01 (Spring)	0.0030 J	< 0.0050	1.5	0.020 J	< 0.050	16.0	13.0	220	220	< 1.0	< 1.0	< 0.040	400
		2005 02 (Summer)	0.011	< 0.0050	4.8	< 0.050	< 0.050	37.0	1.9	400	400	< 1.0	< 1.0	< 0.040	350
		2004 04 (Winter)	0.0080	< 0.0050	2.2	< 0.050	< 0.050	43.0	4.8	390	390	< 1.0	< 1.0	0.15 J	520
		2004 02 (Summer)	0.024	< 0.010	6.8	< 0.050	< 0.050	52.0	1.1	380	380	< 1.0	< 1.0	< 0.040	500
		2003 04 (Winter)	0.0044	< 0.0030	1.0	0.089 J	< 0.10	65.6	5.0	434	434	< 5.0	-	< 1.0	-
		2003 02 (Summer)	0.010	< 0.0030	1.4	< 0.10	< 0.10	41.8	3.8	358	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	2.1	< 0.050	< 0.050	57.0	15.0	440	440	< 1.0	< 1.0	0.060	-
		2002 02 (Summer)	< 0.010	< 0.010	2.5	< 0.050	< 0.050	58.0	2.5	340	340	< 1.0	< 1.0	< 0.040	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-10

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M003-B	2007 01 (Spring)	< 0.0050	< 0.0050	0.073	0.90	< 1.0	8200	360	620	620	< 10.0	< 10.0	< 0.040 UJ	22400
		2006 01 (Spring)	< 0.0050	< 0.0050	0.074	< 1.3	< 2.5	13000 J	900	1000	1000	< 1.0	< 1.0	< 0.040	22900
		2005 02 (Summer)	< 0.0050	< 0.0050	0.081	< 1.0	< 2.5	14000	630	1100	1100	< 1.0	< 1.0	< 0.040	23100
		2004 04 (Winter)	< 0.0050	< 0.0050	0.093	< 1.3	< 1.3	13000	660	940	940	< 1.0	< 1.0	< 0.040 UJ	24400
		2004 02 (Summer)	< 0.010	< 0.010	0.086	< 1.3	< 1.3	14000	610	980	980	< 1.0	< 1.0	< 0.040	21400
		2003 04 (Winter)	< 0.0030	< 0.0030	0.054	< 1.0	< 10.0	11300	613	1010	1010	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.057	< 1.0	< 10.0	3080	606	972	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	0.077	< 1.3	< 1.3	14000	630	1000	1000	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	0.062	< 0.50	< 0.50	13000	600	1000	1000	< 1.0	< 1.0	< 0.040	-
	M028-C	2007 01 (Spring)	< 0.0050	< 0.0050	0.0050	< 1.0	< 1.3	11000	1400	410	410	< 10.0	< 10.0	0.050	19400
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0060	< 1.0	< 1.0	11000	1300	400	400	< 1.0	< 1.0	< 0.040	21500
		2005 02 (Summer)	< 0.0050	< 0.0050	0.0040 J	< 1.0	< 1.3	12000	1400	480	480	< 1.0	< 1.0	< 0.040	19800
		2004 04 (Winter)	< 0.0050	< 0.0050	0.0050	< 1.0	< 1.3	12000	1300	400	400	< 1.0	< 1.0	< 0.040 UJ	22500
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	12000	1300	430	430	< 1.0	< 1.0	< 0.040	19900
		2003 04 (Winter)	< 0.0030	< 0.0030	0.0027 J	< 1.0	< 10.0	9610	1350	474	474	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0028 J	< 1.0	< 10.0	12700	1430	416	-	-	-	< 1.0	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 7.1-10

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M028-C	2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	11000	1400	440	440	< 1.0	< 1.0	0.18	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	12000	1300	450	450	< 1.0	< 1.0	< 0.040	-

Table 7.1-11

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Well No.	Event Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG1-01-D	2006 04 (Winter)	-	-	-	-	-	-	-	1.3	3.2	< 0.66	1.9	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	8.7	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	3.6	< 0.013	< 0.0013	< 0.0013	< 0.0001	80.0	16.0	< 0.66	1.1	3.0	17.0	< 6.6	< 0.66	< 0.66	14.0	19.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	5.6	< 0.66	< 0.66	< 0.66
		2006 02 (Summer)	-	-	-	-	-	-	-	< 2.7	6.5	2.8	11.0	< 27.0 UJ	< 2.7	< 2.7	11.0	17.0	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	770	< 2.7	< 2.7	< 2.7
		2005 02 (Summer)	4.3	< 0.013	< 0.0013	< 0.0013	< 0.0001	81.0	15.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	17.0	22.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-01-S	2007 01 (Spring)	1.9	< 0.013	< 0.0013	< 0.0013	< 0.0001	79.0	19.0	< 0.67	< 0.67	0.97	4.8	< 6.7	< 0.67	< 0.67	8.2	9.4	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	26.0	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.64	< 0.64	< 0.64	< 0.64	< 6.4	< 0.64	< 0.64	4.8	5.2	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	23.0	< 0.64	< 0.64	< 0.64
		2006 03 (Fall)	2.4	< 0.013	< 0.0013	< 0.0013	< 0.0001	79.0	19.0	< 0.67	16.0	7.4	32.0	< 6.7	< 0.67	< 0.67	7.2	9.4	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	16.0	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 0.92	< 0.92	< 0.92	< 0.92	< 9.2	< 0.92	< 0.92	12.0	11.0	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	9.5	< 0.92	< 0.92	< 0.92
		2006 01 (Spring)	0.69	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	21.0	< 0.67	< 0.67	< 0.67	3.0	< 6.7	< 0.67	< 0.67	4.5	4.2	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	0.87	< 0.013	< 0.0013	< 0.0013	0.0001	78.0	21.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	4.6	4.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	5.6	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	0.33	< 0.013	< 0.0013	< 0.0013	0.0002	79.0	20.0	< 0.67	< 0.67	< 0.67	0.70	< 6.7	< 0.67	< 0.67	2.1	2.4	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-02-D	2006 03 (Fall)	1.2	< 0.014	< 0.0014	< 0.0014	0.11	87.0	12.0	< 0.68	36.0	12.0	52.0	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	28.0	< 0.68	< 0.68	< 0.68
		2006 02 (Summer)	-	-	-	-	-	-	-	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	1.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	4.0	< 0.67	< 0.67	< 0.67
	MG1-02-S	2007 01 (Spring)	0.11	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.64	1.5	1.6	8.1	< 6.4	< 0.64	< 0.64	< 0.64	1.4	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	14.0	< 0.64	< 0.64	< 0.64
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.64	2.0	2.4	11.0	< 6.4	< 0.64	< 0.64	< 0.64	0.84	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	80.0	< 0.64	< 0.64	< 0.64
		2006 03 (Fall)	0.091	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.67	2.4	6.2	32.0	< 6.7	< 0.67	< 0.67	< 0.67	1.4	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	15.0	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 2.6	2.7	3.3	12.0	< 26.0	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	20.0	< 2.6	< 2.6	< 2.6
		2006 01 (Spring)	0.093	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7 UJ	< 0.67	< 0.67	< 0.67	1.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	8.3	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	0.083	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	1.5	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	0.071	< 0.013	< 0.0013	< 0.0013	0.0001	79.0	21.0	2.8	2.4	< 0.67	1.3	17.0	< 0.67	< 0.67	< 0.67	1.6	< 0.67	0.90	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	4.7	< 0.67	< 0.67	< 0.67
	MG1-03-D	2007 01 (Spring)	2.0	< 0.013	< 0.0013	< 0.0013	0.013	80.0	18.0	< 5.2	< 5.2	< 5.2	< 5.2	< 52.0	< 5.2	< 5.2	< 5.2	6.6	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	48.0	< 5.2	< 5.2	< 5.2
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	0.77	5.1	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	67.0	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	2.4	< 0.013	< 0.0013	< 0.0013	0.0003	82.0	16.0	< 0.67	3.9	3.9	17.0	< 6.7	< 0.67	< 0.67	2.4	6.1	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	26.0	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 10.0	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	110	< 10.0	< 10.0	< 10.0
		2005 02 (Summer)	3.8	< 0.013	< 0.0013	< 0.0013	0.0004	80.0	16.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	4.0	11.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	3.0	< 0.67	< 0.67	< 0.67
	MG1-03-S	2007 01 (Spring)	0.16	< 0.013	< 0.0013	< 0.0013	0.0002	78.0	22.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	2.9	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	46.0	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.64	< 0.64	< 0.64	< 0.64	< 6.4	< 0.64	< 0.64	< 0.64	0.77	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	47.0	< 0.64	< 0.64	< 0.64
		2006 03 (Fall)	0.13	< 0.013	< 0.0013	< 0.0013	0.0002	78.0	22.0	< 0.67	< 0.67	0.68	2.4	< 6.7	< 0.67	< 0.67	< 0.67	2.2	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	6.4	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 3.8	< 3.8	< 3.8	< 3.8	< 38.0	< 3.8	< 3.8	< 3.8	8.5	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	38.0	< 3.8	< 3.8	< 3.8

Table 7.1-11

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG1-01-D	2006 04 (Winter)	< 0.66	< 0.66	< 0.66	0.53 J	< 0.66	< 0.66	9.0	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	0.97	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.66	< 0.66	3.5	< 2.6	< 0.66	< 0.66	1.1	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 02 (Summer)	< 2.7	< 2.7	4.1	< 11.0	< 2.7	< 2.7	< 2.7	< 2.7	< 5.4	< 2.7	< 2.7	< 2.7	< 2.7	< 11.0	< 2.7	< 2.7	< 2.7
		2005 02 (Summer)	< 0.67	< 0.67	3.5	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
	MG1-01-S	2007 01 (Spring)	< 0.67	< 0.67	2.9	0.92 J	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	3.0	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.64	< 0.64	1.5	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64	< 1.3	< 0.64	< 0.64	< 0.64	1.7	< 2.6	< 0.64	< 0.64 UJ	< 0.64
		2006 03 (Fall)	< 0.67	< 0.67	3.2	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.8	< 2.7	0.82	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 0.92	< 0.92	2.6	1.3 J	< 0.92	< 0.92	< 0.92	< 0.92	< 1.8	< 0.92	< 0.92	< 0.92	< 0.92	< 3.7	< 0.92	< 0.92 UJ	< 0.92
		2006 01 (Spring)	< 0.67	< 0.67	1.0	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.67	< 0.67	1.2	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 0.67	< 0.67	0.97	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-02-D	2006 03 (Fall)	< 0.68	< 0.68	< 0.68	2.6 J	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	1.7	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67 UJ	< 0.67
	MG1-02-S	2007 01 (Spring)	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64	< 1.0	< 0.64	< 0.64	< 0.64	2.0	< 2.6	< 0.64	< 0.64	< 0.64
		2006 04 (Winter)	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64	< 1.3	< 0.64	< 0.64	< 0.64	2.1	< 2.6	< 0.64	< 0.64 UJ	< 0.64
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	0.91	< 1.3	< 0.67	< 0.67	< 0.67	1.4	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 2.6	< 2.6	< 2.6	< 10.0	< 2.6	< 2.6	< 2.6	< 2.6	< 5.2	< 2.6	< 2.6	< 2.6	< 2.6	< 10.0	< 2.6	< 2.6 UJ	< 2.6
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 0.67	0.87	0.72	< 2.7	< 0.67	< 0.67	< 0.67	0.90	< 1.0	< 0.67	< 0.67	< 0.67	2.2	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-03-D	2007 01 (Spring)	< 5.2	< 5.2	< 5.2	< 21.0 UJ	< 5.2	< 5.2	< 5.2	< 5.2	< 10.4	< 5.2	< 5.2	< 5.2	< 5.2	< 21.0	< 5.2	< 5.2	< 5.2
		2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66 UJ	< 1.3	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.67	< 0.67	2.3	2.0 J	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	2.3	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 10.0	< 10.0	< 10.0	< 41.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.6	< 10.0	< 10.0	< 10.0	< 10.0	< 41.0	< 10.0	< 10.0	< 10.0
		2005 02 (Summer)	< 0.67	< 0.67	3.3	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
	MG1-03-S	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.6	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64 UJ	< 1.3	< 0.64	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64 UJ	< 0.64
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	0.91 J	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	0.91	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 3.8	< 3.8	< 3.8	< 15.0	< 3.8	< 3.8	< 3.8	< 3.8	< 7.5	< 3.8	< 3.8	< 3.8	< 3.8	< 15.0	< 3.8	< 3.8 UJ	< 3.8

Table 7.1-11

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Well No.	Event Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG1-03-S	2006 01 (Spring)	0.44	< 0.013	< 0.0013	< 0.0013	0.0002	78.0	21.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7 UJ	< 0.67	< 0.67	< 0.67	6.7	< 0.67	1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	16.0	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	0.11	< 0.013	< 0.0013	< 0.0013	0.0002	78.0	22.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	2.4	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	3.3	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	0.15	< 0.014	< 0.0014	< 0.0014	0.0040	78.0	22.0	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	1.2	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	3.6	< 0.68	< 0.68	< 0.68
	MG1-04-D	2007 01 (Spring)	2.2	< 0.014	0.0032	< 0.0014	2.4	77.0	18.0	1.6	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70	< 0.70	1.8	< 0.70	2.4	< 0.70	< 0.70	< 0.70	< 0.70	7.8	65.0	< 0.70	< 0.70	< 0.70
		2006 03 (Fall)	3.6	< 0.013	< 0.0013	< 0.0013	< 0.0001	79.0	17.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 3.4	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 8.0	< 8.0	< 8.0	< 8.0	< 80.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	50.0	< 8.0	< 8.0	< 8.0
		2006 01 (Spring)	4.4	< 0.015	0.064	< 0.0015	49.0	44.0	2.3	< 22.0	< 22.0	< 22.0	< 22.0	< 220	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	300	< 87.0	< 22.0	< 22.0	< 22.0
		2005 02 (Summer)	1.9	< 0.013	< 0.0013	< 0.0013	0.0010	79.0	19.0	< 0.67	0.81	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	2.6 J	< 0.67	< 0.67	< 0.67
	MG1-04-S	2007 01 (Spring)	0.48	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.65	< 0.65	< 0.65	< 0.65	22.0	< 0.65	1.7	< 0.65	0.77	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	68.0	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	100	< 0.68	< 0.68	< 0.68
		2006 03 (Fall)	0.77	< 0.014	< 0.0014	< 0.0014	< 0.0001	78.0	21.0	< 0.68	0.75	2.2	10.0	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 6.2	< 0.68	< 0.68	< 0.68
		2006 02 (Summer)	-	-	-	-	-	-	-	< 1.8	< 1.8	< 1.8	< 1.8	< 18.0	< 1.8	< 1.8	< 1.8	1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	340	< 1.8	< 1.8	< 1.8
		2006 01 (Spring)	1.5	< 0.013	< 0.0013	< 0.0013	0.072	78.0	20.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	0.87	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	4.8	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	0.13	< 0.013	< 0.0013	< 0.0013	0.0002	78.0	22.0	1.5	1.9	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	0.92	< 0.67	< 0.67	6.2	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	1.0	< 0.013	< 0.0013	< 0.0013	0.0001	81.0	18.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-05-D	2007 01 (Spring)	1.6	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	20.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	0.83	5.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	69.0	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.66	< 0.66	< 0.66	1.2	< 6.6	< 0.66	< 0.66	< 0.66	2.4	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	77.0	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	0.94	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	21.0	< 0.67	1.1	2.8	14.0	< 6.7	< 0.67	< 0.67	1.4	6.8	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 9.7	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 1.8	< 1.8	< 1.8	< 1.8	< 18.0	< 1.8	< 1.8	2.0	11.0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	57.0	< 1.8	< 1.8	< 1.8
		2006 01 (Spring)	3.2	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	19.0	< 0.67	1.0	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	1.2	4.3	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	1.3	< 0.014	< 0.0014	< 0.0014	< 0.0001	78.0	21.0	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	2.1	9.7	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	4.7	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	3.8	< 0.014	< 0.0014	< 0.0014	< 0.0001	80.0	16.0	< 0.72	3.7	1.1	5.8	< 7.2	< 0.72	< 0.72	1.8	3.7	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	6.0	< 0.72	< 0.72	< 0.72
	MG1-05-S	2007 01 (Spring)	1.3	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	20.0	< 0.67	61.0	2.5	11.0	< 6.7	< 0.67	3.7	< 0.67	6.2	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	38.0	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	0.96	4.7	< 0.66	< 0.66	< 0.66	< 0.66	6.8	< 0.66	< 0.66	54.0	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	0.69	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	21.0	< 0.66	3.4	5.0	21.0	< 6.6	< 0.66	< 0.66	0.81	3.3	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 23.0	< 0.66	< 0.66	< 0.66
		2006 02 (Summer)	-	-	-	-	-	-	-	< 5.6	< 5.6	< 5.6	< 5.6	< 56.0	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	400	< 5.6	< 5.6	< 5.6
		2006 01 (Spring)	1.7	< 0.013	< 0.0013	< 0.0013	0.0001	77.0	21.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	1.1	7.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	3.0	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	0.61	< 0.013	< 0.0013	< 0.0013	0.0001	78.0	21.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	0.87	5.3	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	20.0	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	3.3	< 0.013	< 0.0013	< 0.0013	< 0.0001	80.0	17.0	< 0.67	< 0.67	< 0.67	< 0.67	7.0	< 0.67	< 0.67	0.74	3.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67

Table 7.1-11

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 3 - IR Sites 1 and 32

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG1-03-S	2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	0.85	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
	MG1-04-D	2007 01 (Spring)	< 0.70	< 0.70	< 0.70	< 2.8 UJ	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	2.8	< 2.8	< 0.70	< 0.70	< 0.70
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	1.8	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 8.0	< 8.0	< 8.0	< 32.0	< 8.0	< 8.0	35.0	< 8.0	< 16.1	< 8.0	< 8.0	< 8.0	< 8.0	< 32.0	< 8.0	< 8.0	< 8.0
		2006 01 (Spring)	< 22.0	< 22.0	< 22.0	< 87.0	< 22.0	< 22.0	< 22.0	< 22.0	< 43.4	< 22.0	< 22.0	< 22.0	< 22.0	< 87.0	< 22.0	< 22.0	< 22.0
		2005 02 (Summer)	< 0.67	< 0.67	5.8	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	1.3	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
	MG1-04-S	2007 01 (Spring)	< 0.65	< 0.65	< 0.65	< 2.6 UJ	< 0.65	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	5.1	< 2.6	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68 UJ	< 1.4	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 03 (Fall)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	0.99	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 02 (Summer)	< 1.8	< 1.8	< 1.8	< 7.1	< 1.8	< 1.8	< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 1.8	< 7.1	< 1.8	< 1.8	< 1.8
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.0	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	1.4	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-05-D	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.8	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66 UJ	< 1.3	< 0.66	< 0.66	< 0.66	0.88	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.1	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 1.8	< 1.8	< 1.8	< 7.4	< 1.8	< 1.8	< 1.8	< 1.8	< 3.7	< 1.8	< 1.8	< 1.8	< 1.8	< 7.4	< 1.8	< 1.8	< 1.8
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.0	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	1.1	< 2.9	1.5	< 0.72	< 0.72
	MG1-05-S	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	1.5	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	7.6	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.66	0.99	0.77	4.1	< 0.66	< 0.66	0.69	< 0.66 UJ	< 1.3	< 0.66	< 0.66	< 0.66	2.2	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	1.7	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 02 (Summer)	< 5.6	< 5.6	< 5.6	< 23.0	< 5.6	< 5.6	< 5.6	< 5.6	< 11.3	< 5.6	< 5.6	< 5.6	< 5.6	< 23.0	< 5.6	< 5.6	< 5.6
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	0.82	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	4	17	2.0 J	M007-A	21 Mar 2007	57.0 J	M028-E	2003 01 (Spring)
Benzene (UG/L)	7	17	85.0	M028-E	22 Mar 2007	85.0 J	M028-E	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	1	17	0.60	M035-A	22 Mar 2007	1.1	M027-A	2003 04 (Winter)
Toluene (UG/L)	4	17	3400	M028-E	22 Mar 2007	2800	M028-E	2003 01 (Spring)
Trichloroethene (UG/L)	8	17	14.0	M002-A	20 Mar 2007	39.0	M002-A	2002 04 (Winter)
1,1-Dichloroethene (UG/L)	2	17	34.0 J	M028-E	22 Mar 2007	34.0 J	M028-E	2003 01 (Spring)
Ethylbenzene (UG/L)	5	17	69.0	M028-E	22 Mar 2007	80.0	M028-E	2003 02 (Summer)
Bromodichloromethane (UG/L)	1	17	0.080 J	M035-A	05 Oct 2006	--	NA	NA
cis-1,2-Dichloroethene (UG/L)	14	17	6500	M028-E	22 Mar 2007	14000	M028-E	2003 01 (Spring)
M,P-xylenes (UG/L)	6	17	240	M028-E	22 Mar 2007	300	M028-E	2003 02 (Summer)
Bromoform (UG/L)	1	17	0.20 J	M035-A	05 Oct 2006	--	NA	NA
O-xylene (UG/L)	5	17	100	M028-E	22 Mar 2007	140	M028-E	2003 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	8	17	64.0	M028-E	22 Mar 2007	30.0 J	M028-E	2003 04 (Winter)
1,1-Dichloroethane (UG/L)	4	17	35.0 J	M028-E	22 Mar 2007	35.0 J	M028-E	2003 01 (Spring)
Bromomethane (UG/L)	1	17	0.60 J	M029-A	21 Mar 2007	--	NA	NA
Naphthalene (UG/L)	4	17	430	M001-E	20 Mar 2007	360	M001-E	2003 02 (Summer)
1,2-Dichloroethane (UG/L)	6	17	1.0	M032-A	05 Oct 2006	3.1	M028-E	2003 04 (Winter)
Carbon Disulfide (UG/L)	6	17	0.30 J	M025-A	04 Oct 2006	4.9	M028-A	2002 03 (Fall)
Carbon Tetrachloride (UG/L)	1	17	0.20 J	M003-A	20 Mar 2007	0.60	M003-A	2006 01 (Spring)
Chlorobenzene (UG/L)	5	17	120	M028-E	04 Oct 2006	150	M028-E	2003 02 (Summer)
1,2-Dichlorobenzene (UG/L)	5	17	79.0	M028-E	22 Mar 2007	65.0	M028-E	2003 01 (Spring)
Vinyl Chloride (UG/L)	10	17	31000	M028-E	22 Mar 2007	35000	M028-E	2003 01 (Spring)
1,3-Dichlorobenzene (UG/L)	1	17	0.80	M034-A	05 Oct 2006	1.5	M028-E	2003 02 (Summer)
Chloroform (UG/L)	1	17	0.20 J	M003-A	20 Mar 2007	0.50	M003-A	2006 01 (Spring)
1,4-Dichlorobenzene (UG/L)	3	17	3.3	M034-A	05 Oct 2006	16.0 J	M028-E	2004 02 (Summer)
Chloromethane (UG/L)	4	17	1.1	M033-A	05 Oct 2006	0.91 J	M004-A	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
2-Chlorotoluene (UG/L)	1	17	0.20 J	M034-A	22 Mar 2007	0.30 J	M034-A	2006 01 (Spring)
4-Chlorotoluene (UG/L)	1	17	0.10 J	M034-A	05 Oct 2006	--	NA	NA
1,2-Dichloropropane (UG/L)	1	17	0.10 J	M034-A	22 Mar 2007	2.2	M034-A	2002 04 (Winter)
Isopropylbenzene (UG/L)	5	17	15.0 J	M028-E	04 Oct 2006	40.0	M028-E	2003 01 (Spring)
Isopropyl Ether (UG/L)	1	17	0.30 J	M034-A	22 Mar 2007	1.2 J	M028-E	2003 03 (Fall)
Methylene Chloride (UG/L)	1	17	0.20 J	M005-A	20 Mar 2007	0.60 J	M033-A	2005 01 (Spring)
Methyl ethyl ketone (MEK) (UG/L)	6	17	0.40 J	M007-A	04 Oct 2006	--	NA	NA
n-Butylbenzene (UG/L)	2	17	2.7	M034-A	05 Oct 2006	9.0	M028-E	2005 01 (Spring)
n-Propylbenzene (UG/L)	4	17	19.0 J	M028-E	04 Oct 2006	39.0	M028-E	2003 01 (Spring)
p-Isopropyltoluene (UG/L)	1	17	1.2	M034-A	05 Oct 2006	8.7	M028-E	2003 03 (Fall)
sec-Butylbenzene (UG/L)	4	17	8.6 J	M028-E	04 Oct 2006	13.0	M028-E	2002 04 (Winter)
Tert-butyl alcohol (UG/L)	4	17	7.3 J	M005-A	04 Oct 2006	16.0 J	M028-E	2003 04 (Winter)
Tert-butylbenzene (UG/L)	5	17	0.60	M034-A	05 Oct 2006	0.90	M034-A	2003 01 (Spring)
1,2,4-Trimethylbenzene (UG/L)	6	17	160	M028-E	22 Mar 2007	210	M028-E	2003 02 (Summer)
1,3,5-Trimethylbenzene (UG/L)	2	17	33.0 J	M028-E	04 Oct 2006	40.0	M028-E	2003 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	3	8	2.9 J	M028-C	21 Mar 2007	1.8 J	M028-C	2003 01 (Spring)
Trichloroethene (UG/L)	1	8	0.80	M030-C	22 Mar 2007	--	NA	NA
Tert-butyl alcohol (UG/L)	1	8	2.0 J	M001-B	20 Mar 2007	8.4 J	M030-C	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
Acenaphthene (UG/L)	3	15	7.0 J	M001-E	20 Mar 2007	6.8 J	M001-E	2006 01 (Spring)
Fluorene (UG/L)	3	15	2.3 J	M001-E	20 Mar 2007	2.8 J	M001-E	2006 01 (Spring)
Naphthalene (UG/L)	3	15	190	M001-E	20 Mar 2007	240	M001-E	2006 01 (Spring)
Phenanthrene (UG/L)	2	15	1.8 J	M001-E	20 Mar 2007	2.3 J	M001-E	2006 01 (Spring)
Pyrene (UG/L)	1	15	0.44 J	M032-A	22 Mar 2007	11.0	M028-E	2004 01 (Spring)
bis(2-Chloroisopropyl)ether (UG/L)	2	15	2.3 J	M001-E	20 Mar 2007	3.6 J	M034-A	2005 02 (Summer)
bis(2-Ethylhexyl)phthalate (UG/L)	1	15	3.9 J	M034-A	22 Mar 2007	350	M027-A	2003 03 (Fall)
Dibenzofuran (UG/L)	1	15	0.92 J	M034-A	22 Mar 2007	1.8 J	M001-E	2006 01 (Spring)
1,2-Dichlorobenzene (UG/L)	3	15	67.0 J	M028-E	22 Mar 2007	80.0 J	M028-E	2003 01 (Spring)
1,4-Dichlorobenzene (UG/L)	1	15	1.6 J	M034-A	22 Mar 2007	13.0	M028-E	2004 02 (Summer)
2,4-Dimethylphenol (UG/L)	2	15	3100	M028-E	22 Mar 2007	3900	M028-E	2003 01 (Spring)
Di-n-Butyl Phthalate (UG/L)	3	15	0.71 J	M034-A	22 Mar 2007	0.44 J	M028-E	2004 02 (Summer)
2-Methylnaphthalene (UG/L)	2	15	7.7 J	M001-E	20 Mar 2007	8.9 J	M001-E	2006 01 (Spring)
2-Methylphenol (o-Cresol) (UG/L)	1	15	570	M028-E	22 Mar 2007	850	M028-E	2003 01 (Spring)
n-Nitrosodiphenylamine (UG/L)	1	15	0.48 J	M034-A	22 Mar 2007	1.9 J	M034-A	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Organochlorine Pesticides								
alpha-BHC (UG/L)	1	7	0.020 J	M028-E	22 Mar 2007	0.084	M028-E	2004 01 (Spring)
beta-BHC (UG/L)	1	7	0.060 J	M028-E	22 Mar 2007	2.4	M028-E	2004 01 (Spring)
gamma-Chlordane (UG/L)	1	7	0.0080 J	M028-E	22 Mar 2007	0.020 J	M028-E	2005 01 (Spring)
4,4'-DDD (UG/L)	1	7	0.070 J	M028-E	22 Mar 2007	--	NA	NA
4,4'-DDE (UG/L)	1	7	0.040 J	M028-E	22 Mar 2007	0.080 J	M028-E	2004 04 (Winter)
4,4'-DDT (UG/L)	1	7	0.040 J	M028-E	22 Mar 2007	0.030 J	M028-E	2004 02 (Summer)
Dieldrin (UG/L)	1	7	0.020 J	M028-E	22 Mar 2007	0.069 J	M028-E	2004 01 (Spring)
Endrin aldehyde (UG/L)	1	7	0.010 J	M028-E	22 Mar 2007	--	NA	NA
Heptachlor (UG/L)	1	7	0.030 J	M028-E	22 Mar 2007	0.010 J	M028-E	2004 02 (Summer)
Heptachlor epoxide (UG/L)	2	7	0.060 J	M028-E	22 Mar 2007	0.080	M028-E	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Ethane (MG/L)	2	4	2.2	M028-E	22 Mar 2007	2.6	M028-E	2004 02 (Summer)
Ethene (MG/L)	1	4	14.0	M028-E	22 Mar 2007	22.0	M028-E	2004 04 (Winter)
Methane (MG/L)	4	4	13.0	M028-E	22 Mar 2007	17.0	M028-E	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	2	2	0.073	M003-B	20 Mar 2007	0.093	M003-B	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	8	18	8.5	M027-A	21 Mar 2007	17.0	M001-A	2006 01 (Spring)
Arsenic (UG/L)	11	18	12.0	M007-A	21 Mar 2007	47.7 J	M028-E	2003 03 (Fall)
Barium (UG/L)	18	18	260 J	M025-A	22 Mar 2007	958	M025-A	2003 02 (Summer)
Cadmium (UG/L)	4	18	1.3 J	M027-A	21 Mar 2007	5.1	M027-A	2006 01 (Spring)
Chromium (UG/L)	1	18	1.3 J	M026-A	21 Mar 2007	4.7 J	M001-A	2006 01 (Spring)
Cobalt (UG/L)	15	18	0.91 J	M003-A	20 Mar 2007	6.1 J	M003-A	2002 03 (Fall)
Copper (UG/L)	17	18	4.4 J	M028-A	21 Mar 2007	20.0	M001-A	2006 01 (Spring)
Lead (UG/L)	1	18	0.76 J	M033-A	22 Mar 2007	3.6 J	M028-A	2004 01 (Spring)
Manganese (UG/L)	17	18	2200	M028-E	22 Mar 2007	6760	M001-E	2003 04 (Winter)
Mercury (UG/L)	2	18	0.047 J	M007-A	21 Mar 2007	0.30 J	M032-A	2003 04 (Winter)
Molybdenum (UG/L)	9	18	5.4 J	M001-E	20 Mar 2007	38.5 J	M026-A	2003 04 (Winter)
Nickel (UG/L)	10	18	9.8 J	M030-A	21 Mar 2007	53.7	M028-A	2004 01 (Spring)
Selenium (UG/L)	2	18	0.30 J	M030-A	21 Mar 2007	22.0	M026-E	2002 04 (Winter)
Silver (UG/L)	1	18	0.11 J	M029-A	21 Mar 2007	2.7 J	M026-A	2006 01 (Spring)
Thallium (UG/L)	1	18	0.48 J	M029-A	21 Mar 2007	6.1	M028-E	2005 01 (Spring)
Vanadium (UG/L)	13	18	9.3 J	M030-A	21 Mar 2007	15.0	M003-A	2006 01 (Spring)
Zinc (UG/L)	10	18	110	M031-A	22 Mar 2007	1200	M031-A	2006 01 (Spring)
Aluminum (UG/L)	5	18	110	M001-A	20 Mar 2007	120	M029-A	2005 01 (Spring)
Iron (UG/L)	13	18	19000	M028-E	22 Mar 2007	27000	M028-E	2004 04 (Winter)
Calcium (MG/L)	18	18	250	M026-A	21 Mar 2007	540	M026-E	2004 04 (Winter)
Magnesium (MG/L)	18	18	470	M026-A	21 Mar 2007	1100	M026-A	2004 04 (Winter)
Potassium (MG/L)	18	18	130	M026-A	21 Mar 2007	427 J	M025-A	2003 03 (Fall)
Sodium (MG/L)	18	18	3200	M026-A	21 Mar 2007	8400	M026-A	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	8	0.78 J	M003-B	20 Mar 2007	0.64 J	M001-B	2005 02 (Summer)
Arsenic (UG/L)	4	8	35.0	M027-B	21 Mar 2007	53.0	M027-B	2006 01 (Spring)
Barium (UG/L)	8	8	450	M027-B	21 Mar 2007	500	M027-B	2002 02 (Summer)
Cadmium (UG/L)	1	8	0.074 J	M028-C	21 Mar 2007	0.63 J	M030-C	2003 02 (Summer)
Chromium (UG/L)	1	8	1.5 J	M025-C	21 Mar 2007	10.0 J	M025-C	2002 02 (Summer)
Cobalt (UG/L)	7	8	7.7	M001-B	20 Mar 2007	9.3	M001-B	2004 02 (Summer)
Copper (UG/L)	4	8	0.68 J	M003-B	20 Mar 2007	9.8 J	M003-B	2002 04 (Winter)
Manganese (UG/L)	8	8	7900	M001-B	20 Mar 2007	8900	M001-B	2004 04 (Winter)
Mercury (UG/L)	1	8	0.023 J	M028-C	21 Mar 2007	0.27	M003-B	2006 01 (Spring)
Molybdenum (UG/L)	4	8	2.2 J	M027-C	21 Mar 2007	32.0 J	M001-B	2003 04 (Winter)
Nickel (UG/L)	5	8	5.0 J	M001-B	20 Mar 2007	14.0 J	M001-B	2003 04 (Winter)
Silver (UG/L)	3	8	0.096 J	M028-C	21 Mar 2007	8.1	M001-B	2006 01 (Spring)
Vanadium (UG/L)	3	8	5.6 J	M025-C	21 Mar 2007	6.8 J	M030-C	2002 02 (Summer)
Zinc (UG/L)	1	8	0.89 J	M001-B	20 Mar 2007	470	M031-C	2002 02 (Summer)
Aluminum (UG/L)	2	8	68.0 J	M025-C	21 Mar 2007	110 J	M025-C	2005 01 (Spring)
Iron (UG/L)	7	8	13000	M027-B	21 Mar 2007	19000	M027-B	2005 02 (Summer)
Calcium (MG/L)	8	8	690	M028-C	21 Mar 2007	670	M028-C	2006 01 (Spring)
Magnesium (MG/L)	8	8	1100	M001-B	20 Mar 2007	1150	M030-C	2003 02 (Summer)
Potassium (MG/L)	8	8	180	M003-B	20 Mar 2007	269	M003-B	2003 04 (Winter)
Sodium (MG/L)	8	8	7600	M030-C	22 Mar 2007	8800	M030-C	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	4	4	550	M027-A	21 Mar 2007	570	M027-A	2002 02 (Summer)
Alkalinity, bicarbonate (MG/L)	4	4	550	M027-A	21 Mar 2007	570	M027-A	2002 02 (Summer)
Total Dissolved Solids (MG/L)	4	4	1740	M027-A	21 Mar 2007	2020	M027-A	2004 04 (Winter)
Nitrate (MG/L)	3	4	0.28	M004-A	21 Mar 2007	3.2	M027-A	2002 04 (Winter)
Chloride (MG/L)	4	4	610	M027-A	21 Mar 2007	783	M027-A	2003 04 (Winter)
Sulfate (as SO4) (MG/L)	3	4	150	M027-A	21 Mar 2007	260	M027-A	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	2	2	620	M003-B	20 Mar 2007	1100	M003-B	2005 02 (Summer)
Sulfide (MG/L)	1	2	0.050	M028-C	21 Mar 2007	0.18	M028-C	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	2	2	620	M003-B	20 Mar 2007	1100	M003-B	2005 02 (Summer)
Total Dissolved Solids (MG/L)	2	2	22400	M003-B	20 Mar 2007	24400	M003-B	2004 04 (Winter)
Nitrate (MG/L)	1	2	0.90	M003-B	20 Mar 2007	--	NA	NA
Chloride (MG/L)	2	2	11000	M028-C	21 Mar 2007	14000	M003-B	2005 02 (Summer)
Sulfate (as SO4) (MG/L)	2	2	1400	M028-C	21 Mar 2007	1430	M028-C	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (First Water-Bearing Zone)								
Radionuclides								
Alpha (900.0) (PCI/L)	8	18	24.9	M026-A	21 Mar 2007	140	M029-E	2004 02 (Summer)
Beta (900.0) (PCI/L)	18	18	259	M026-A	04 Oct 2006	271	M026-A	2002 02 (Summer)
Bismuth 214 (901.1) (PCI/L)	5	17	15.0	M006-A	04 Oct 2006	95.9	M001-A	2003 04 (Winter)
Lead 212 (901.1) (PCI/L)	1	18	7.7 J	M007-A	04 Oct 2006	--	NA	NA
Lead 214 (901.1) (PCI/L)	5	18	16.9	M005-A	04 Oct 2006	74.7	M001-A	2003 04 (Winter)
Potassium 40 (901.1) (PCI/L)	5	18	269	M026-A	04 Oct 2006	873	M034-A	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	8	18	1.5	M007-A	04 Oct 2006	3.7	M025-A	2003 02 (Summer)
Radium (Sum) (PCI/L)	7	18	3.7	M033-A	22 Mar 2007	556	M002-A	2003 04 (Winter)
Ra-228 (904.0) (PCI/L)	7	18	3.7 J	M033-A	22 Mar 2007	5.3	M001-E	2003 02 (Summer)
Strontium (Sr) Total (905.0) (PCI/L)	4	18	113	M032-A	22 Mar 2007	27.5	M001-E	2006 01 (Spring)
Tritium (906.0) (PCI/L)	3	18	427 J	M001-E	04 Oct 2006	811	M034-A	2004 01 (Spring)
Uranium 233/234 (908.0) (PCI/L)	12	18	1.9	M007-A	04 Oct 2006	1.3	M002-A	2004 02 (Summer)
Uranium 235/236 (U02RC) (PCI/L)	2	18	0.052 J	M030-A	21 Mar 2007	0.026 J	M032-A	2006 01 (Spring)
Uranium 238 (908.0) (PCI/L)	11	18	1.4	M007-A	04 Oct 2006	1.1	M002-A	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 7.1-12

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 3 - IR Sites 1 and 32

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 3 - IR Sites 1 and 32 (Second Water-Bearing Zone)								
Radionuclides								
Beta (900.0) (PCI/L)	8	8	481 J	M028-C	21 Mar 2007	377 J	M001-B	2006 01 (Spring)
Bismuth 214 (901.1) (PCI/L)	3	8	11.4	M028-C	05 Oct 2006	59.7	M027-B	2003 04 (Winter)
Potassium 40 (901.1) (PCI/L)	8	8	199	M003-B	20 Mar 2007	774	M030-C	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	8	8	1.8	M003-B	04 Oct 2006	8.4	M001-B	2003 02 (Summer)
Radium (Sum) (PCI/L)	6	8	3.5	M028-C	05 Oct 2006	501	M027-B	2003 04 (Winter)
Ra-228 (904.0) (PCI/L)	6	8	3.5 J	M028-C	05 Oct 2006	11.8	M028-C	2003 03 (Fall)
Tritium (906.0) (PCI/L)	1	8	418 J	M027-B	04 Oct 2006	--	NA	NA
Uranium 233/234 (908.0) (PCI/L)	7	8	4.7	M001-B	20 Mar 2007	3.7	M001-B	2006 01 (Spring)
Uranium 235/236 (U02RC) (PCI/L)	1	8	0.075 J	M027-C	21 Mar 2007	0.14 J	M001-B	2006 01 (Spring)
Uranium 238 (908.0) (PCI/L)	7	8	3.3	M001-B	20 Mar 2007	3.1	M001-B	2006 01 (Spring)

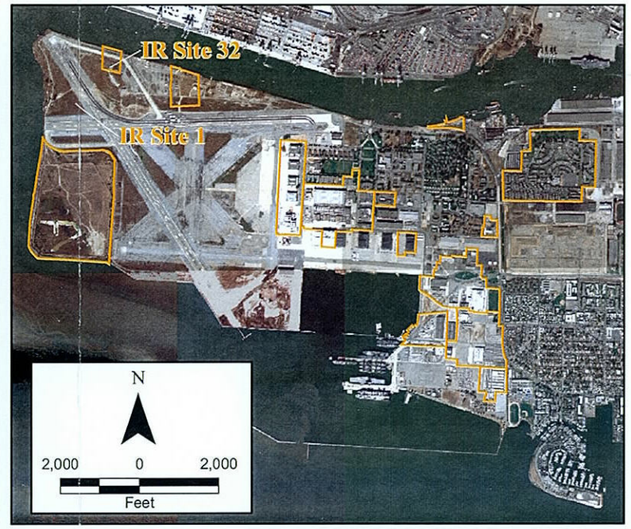
Result exceeds Maximum Contaminant Level (MCL)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

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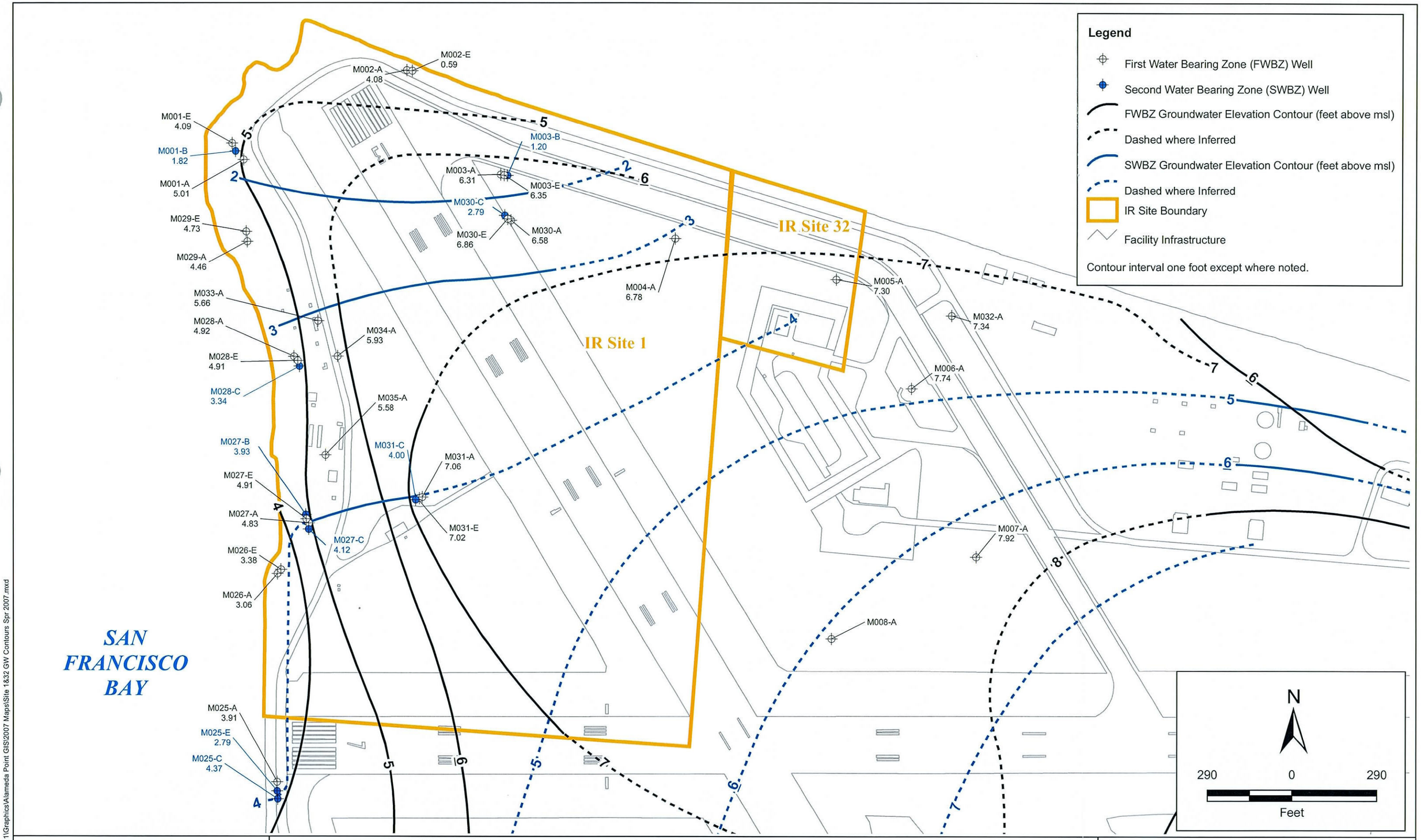
FIGURE 7.1-1
OPERABLE UNIT 3 - IR SITES 1 AND 32
SITE AND WELL LOCATION MAP



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Site 1&32 GW Contours Spr 2007.mxd

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FIGURE 7.1-2
OPERABLE UNIT 3 - IR SITES 1 AND 32
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

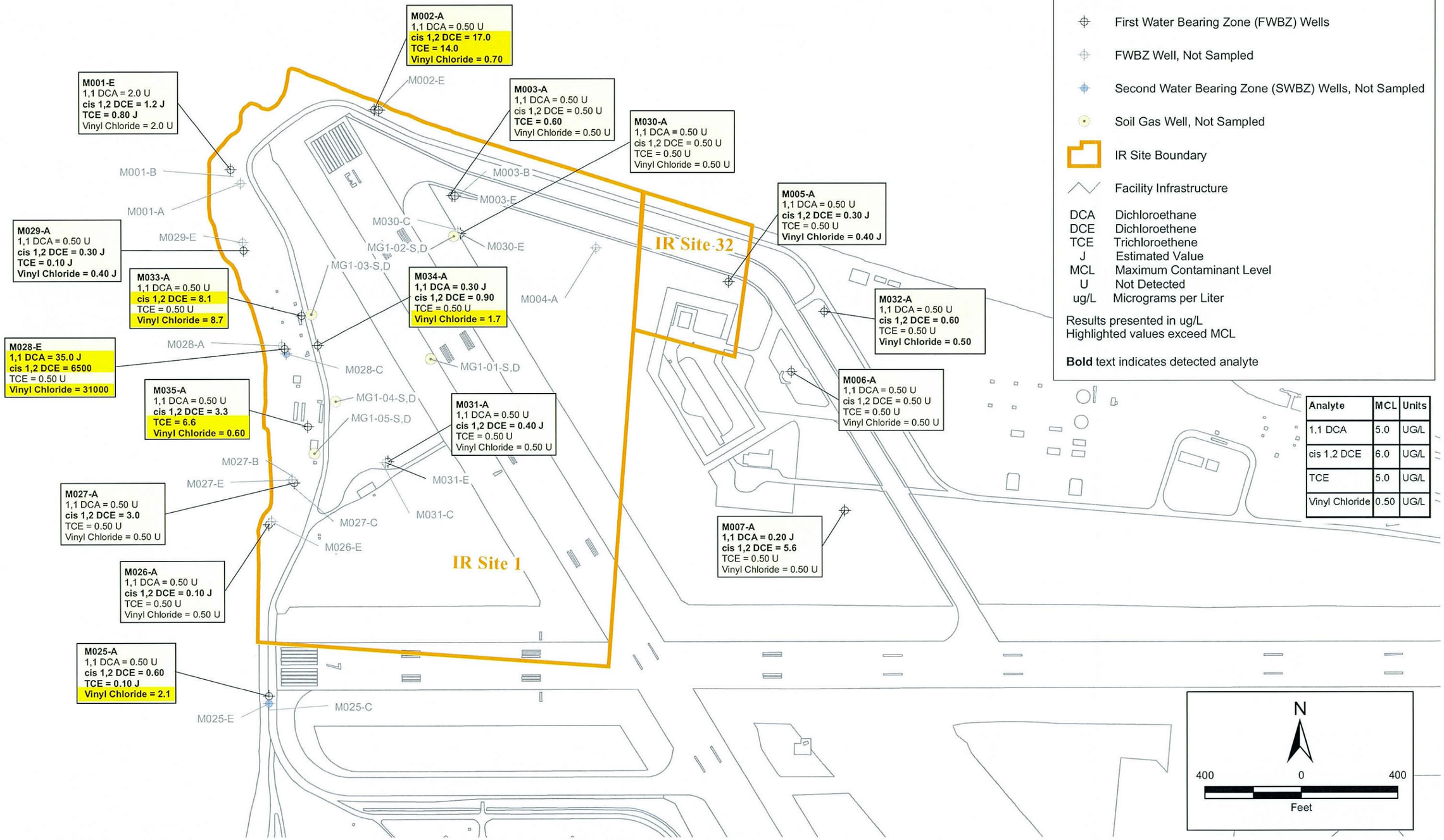

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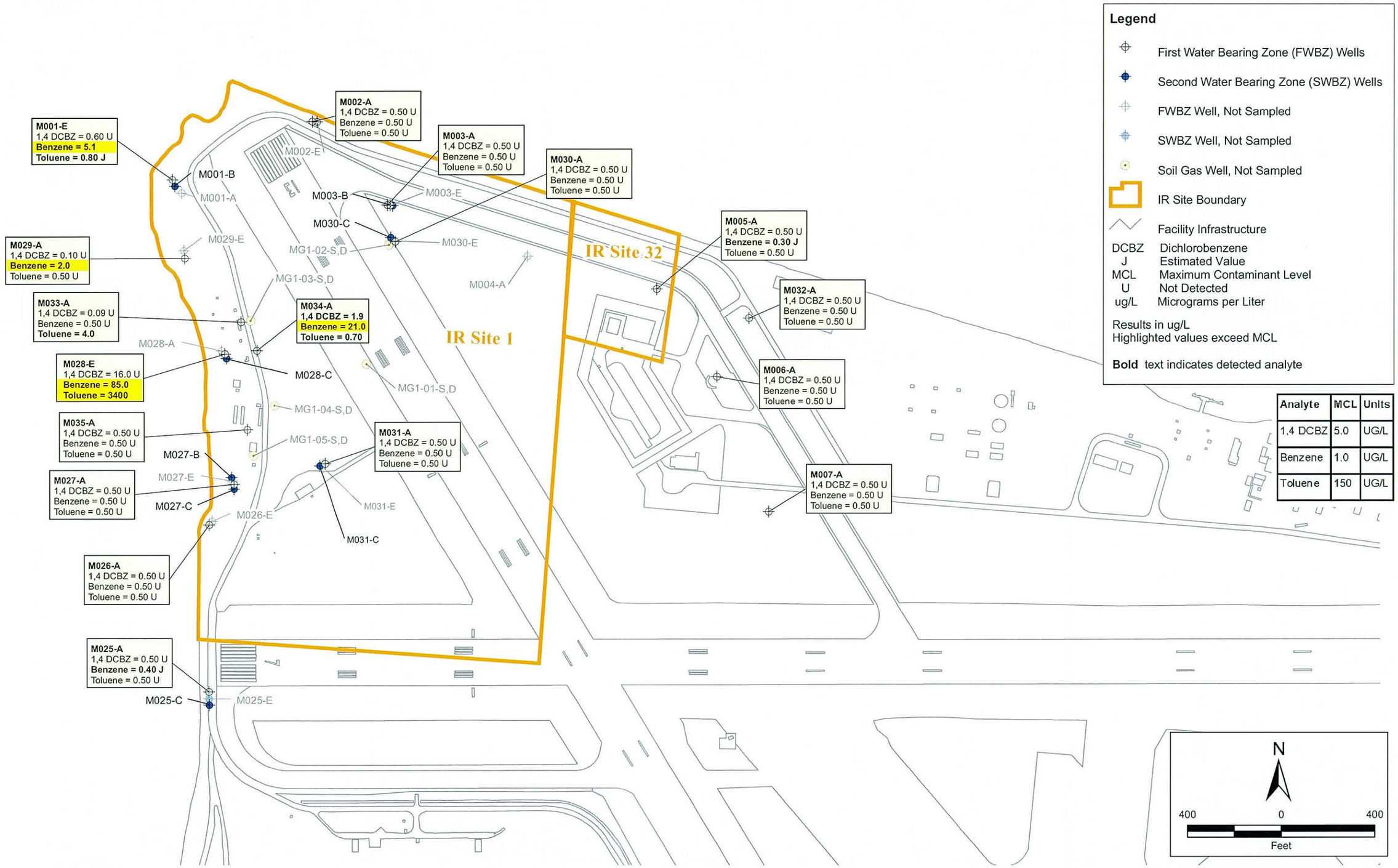
FIGURE 7.1-3
OPERABLE UNIT 3 - IR SITES 1 AND 32
GROUNDWATER CONCENTRATIONS OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2007

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 1&32 Chlorinated HydroC Map.mxd



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 1&32 Aromatic HydroC Map.mxd

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FIGURE 7.1-4
OPERABLE UNIT 3 - IR SITES 1 AND 32
GROUNDWATER CONCENTRATIONS OF SELECTED
AROMATIC HYDROCARBONS ABOVE CRITERIA
SPRING 2007

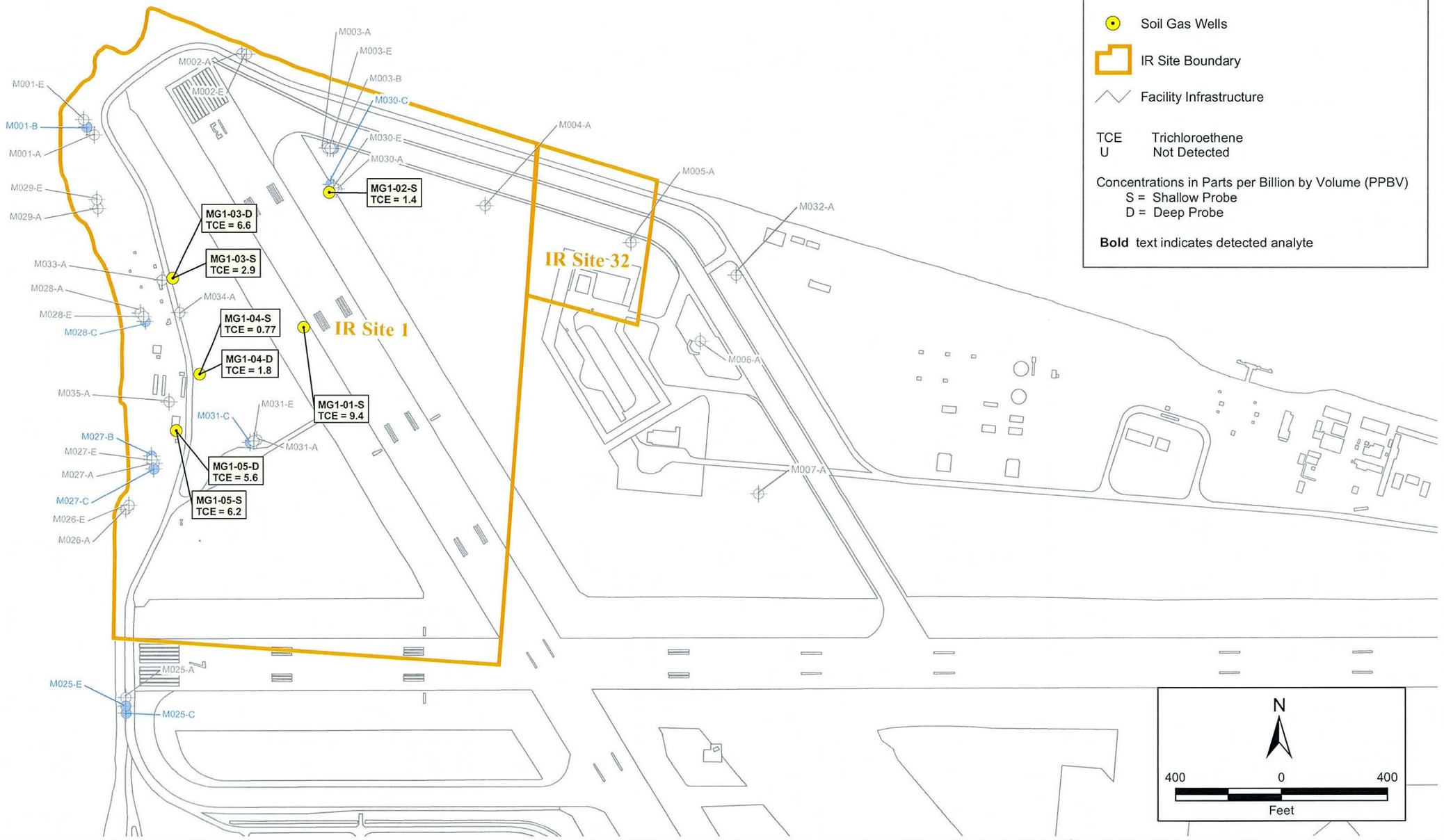

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FIGURE 7.1-5
OPERABLE UNIT 3 - IR SITES 1 AND 32
SELECTED SOIL GAS ANALYTICAL DETECTIONS
SPRING 2007

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 1&32 Soil Gas Detect Map.mxd

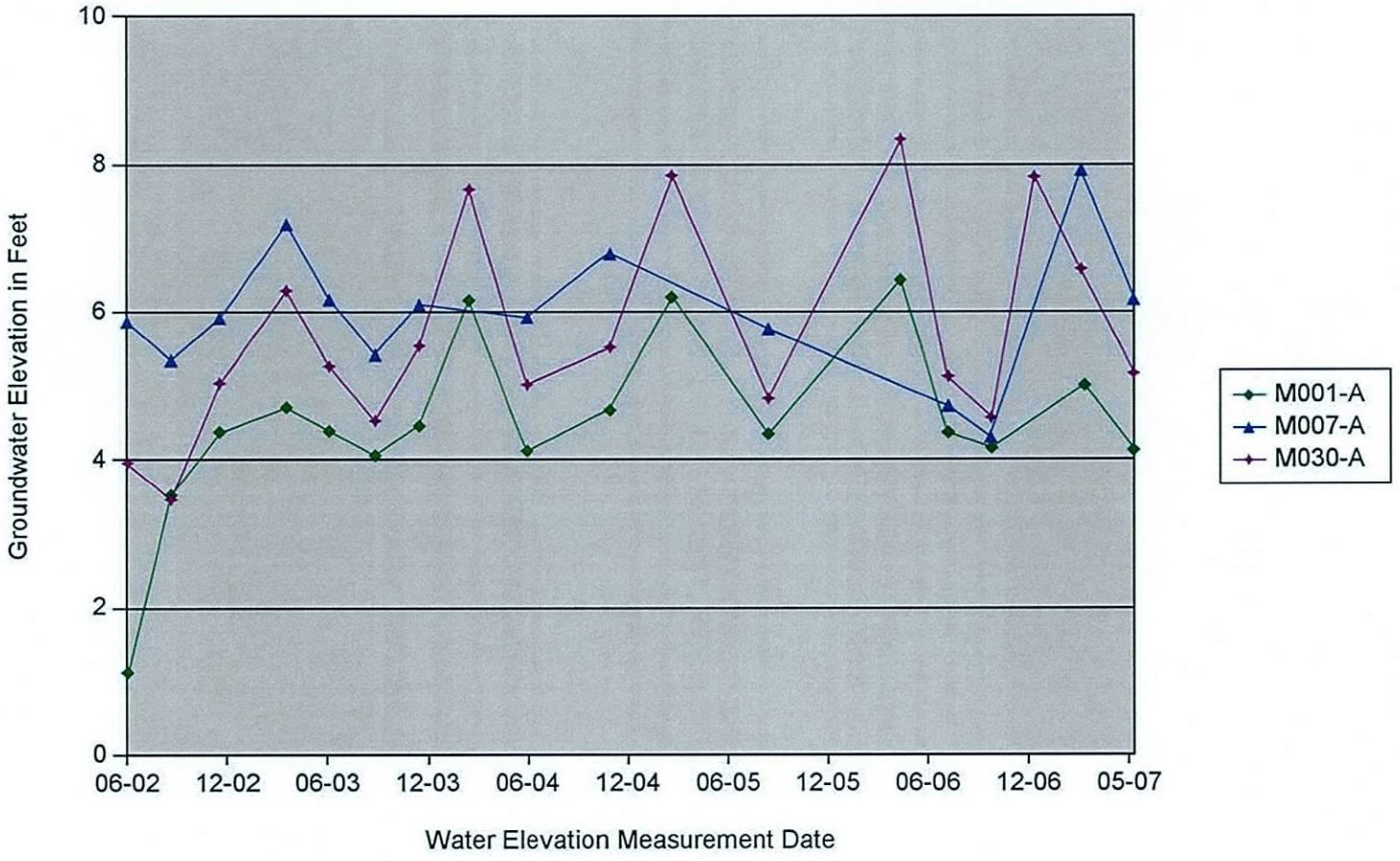

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FIGURE 7.1-6a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 3- IR SITES 1 & 32:
NORTH-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Sites 1&32\Figure 7.1-6a.ai

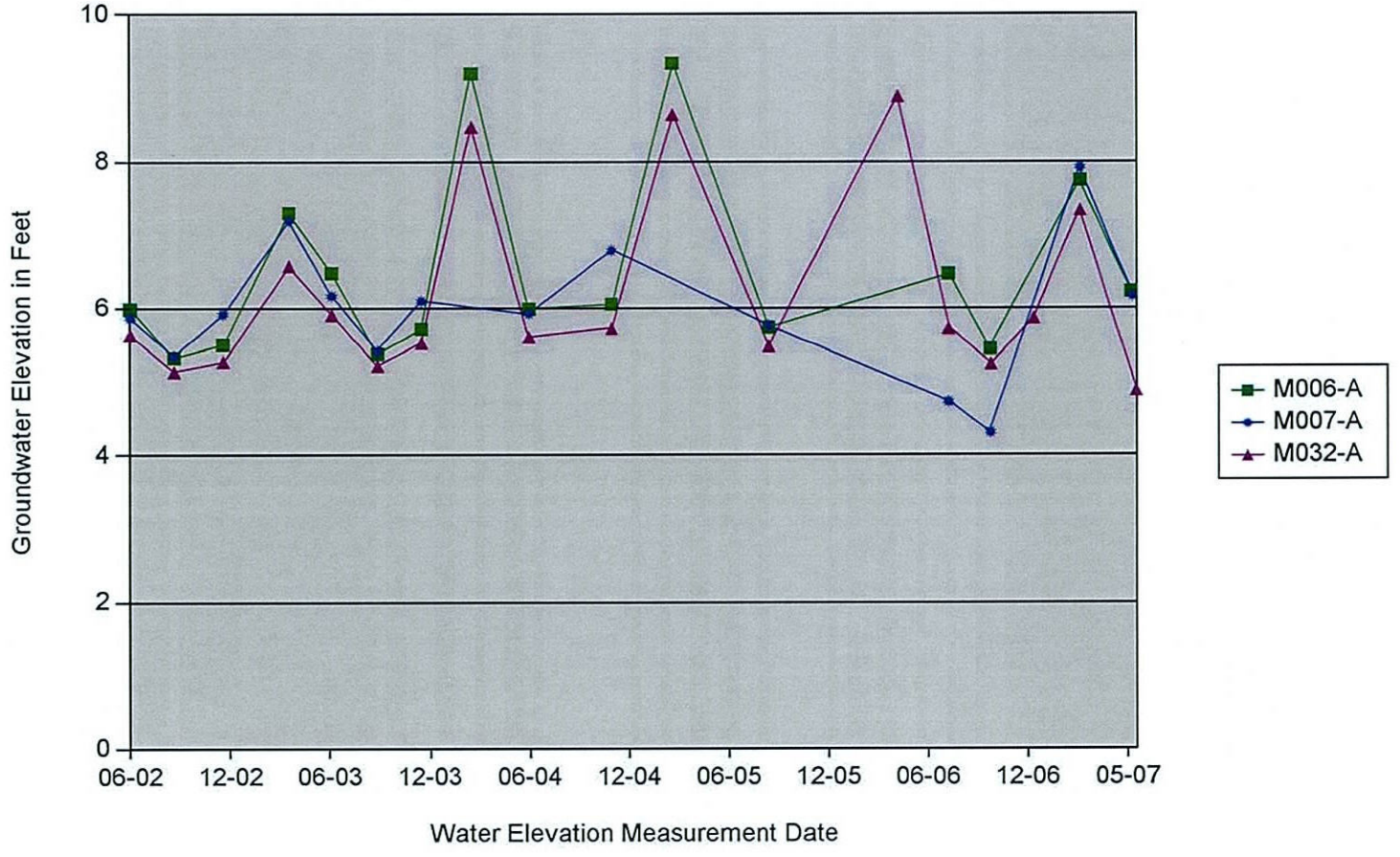

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FIGURE 7.1-6b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 3- IR SITES 1 & 32:
NORTH-SOUTH ORIENTED FWBZ WELLS NEAR SITE 32
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Sites 1&32\Figure 7.1-6b.ai

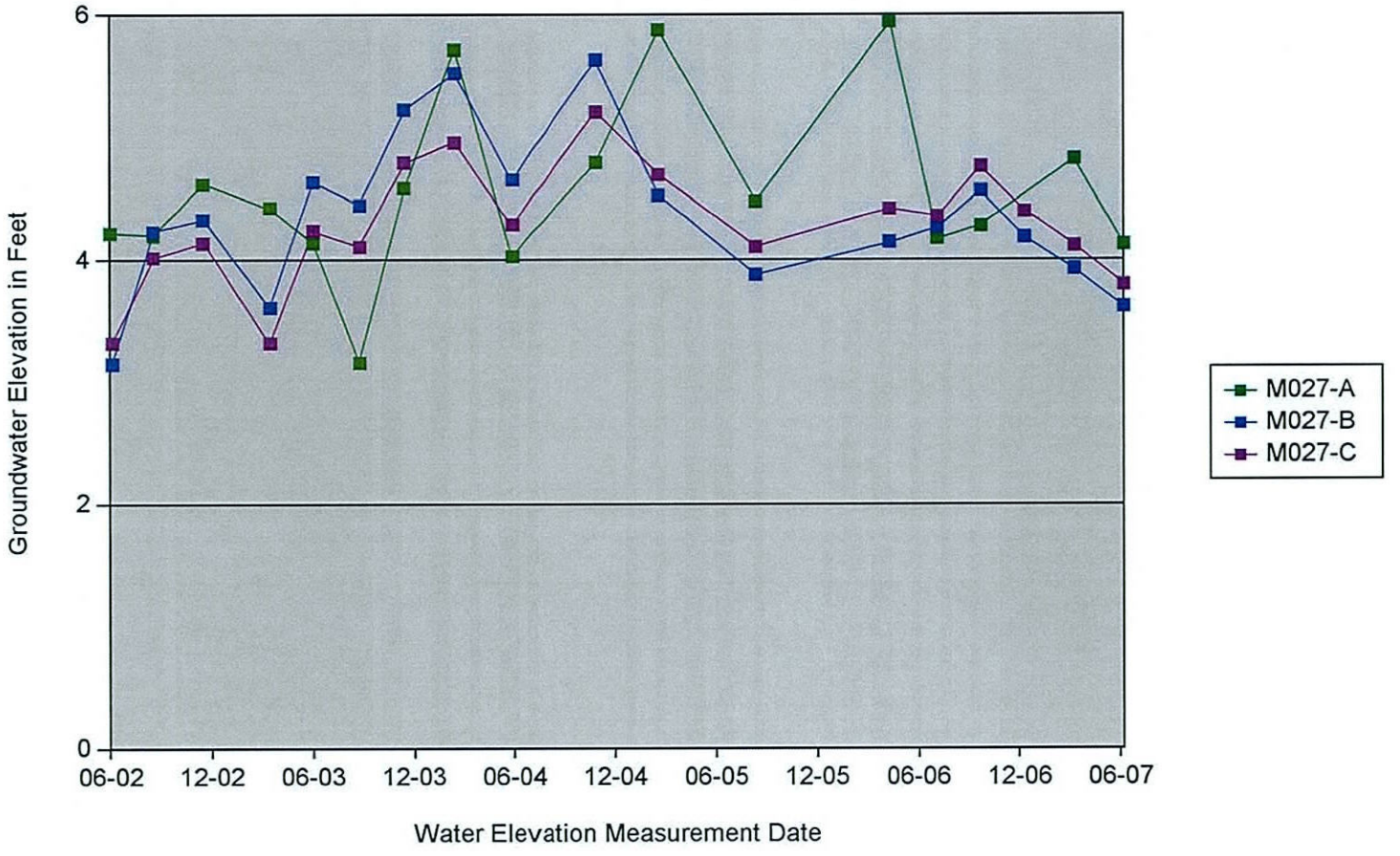

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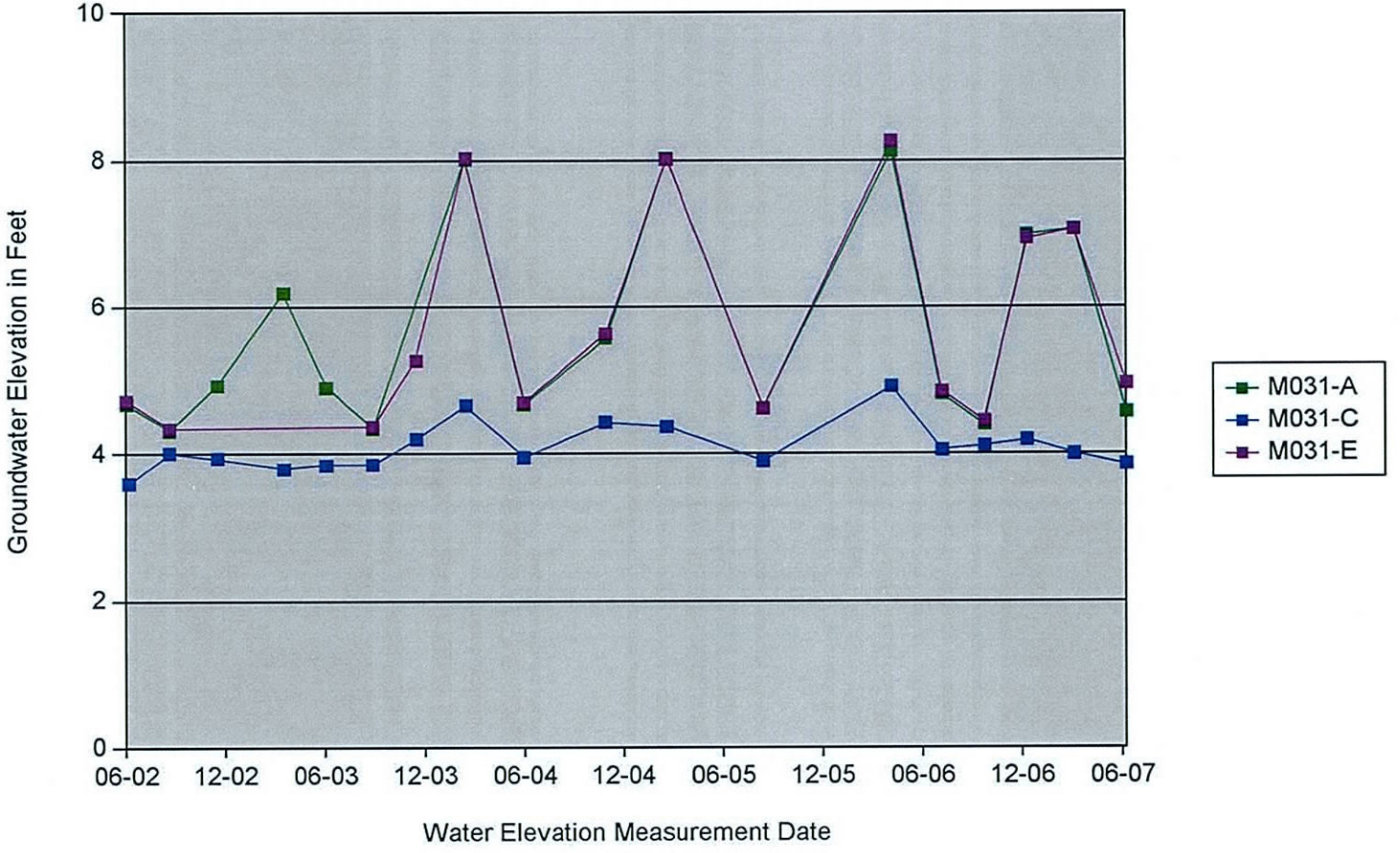
FIGURE 7.1-6c
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 3- IR SITES 1 & 32:
CLUSTERED WELLS WITHIN ZONE OF TIDAL INFLUENCE AT SITE 1
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Sites 1&32\Figure 7.1-6c.ai



2002 Projects\02-125.11\Graphics\Hydrographs\Sites 1&32\Figure 7.1-6cdai

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FIGURE 7.1-6d
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 3- IR SITES 1 & 32:
CLUSTERED WELLS OUTSIDE ZONE OF TIDAL INFLUENCE AT SITE 1
SUMMER 2002 THROUGH SPRING 2007

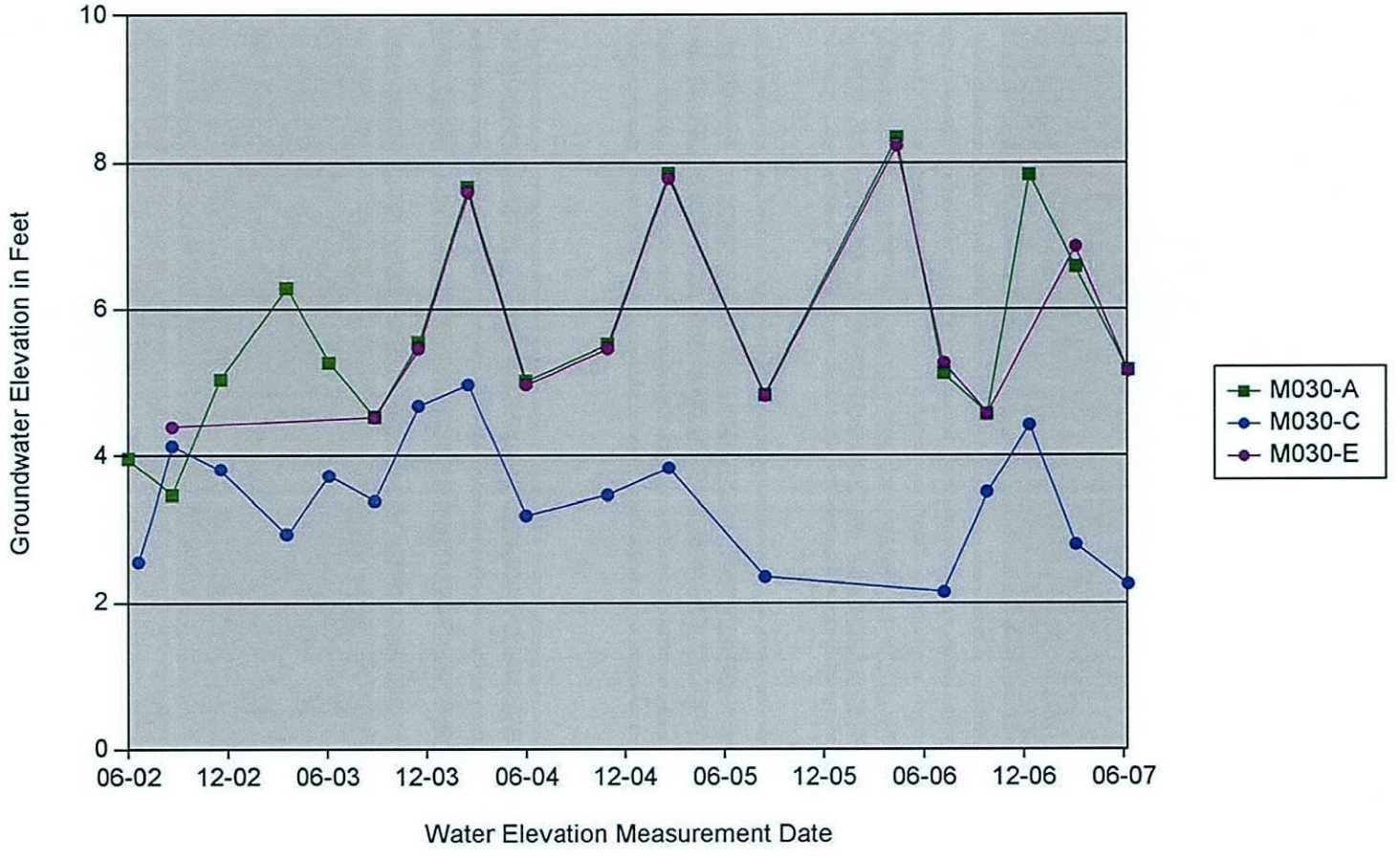

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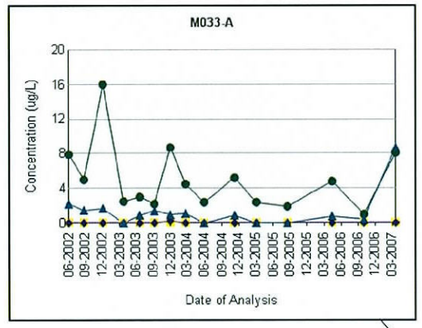
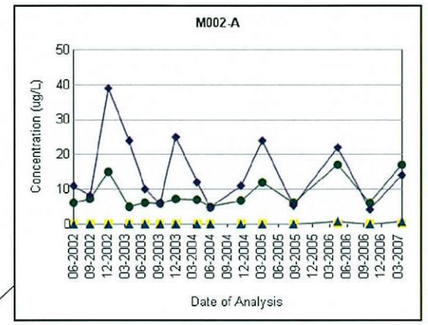
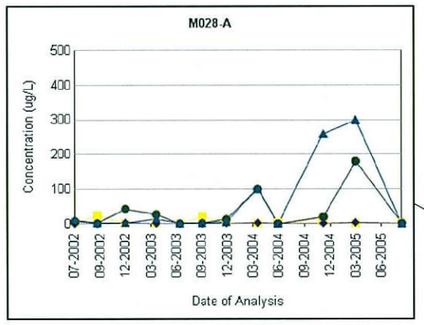
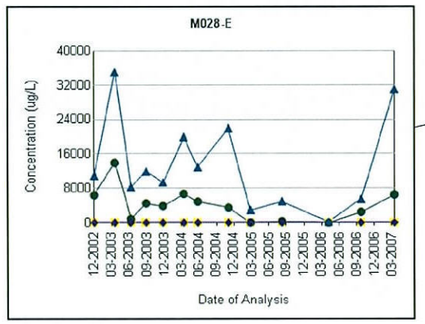
FIGURE 7.1-6e
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 3- IR SITES 1 & 32:
CLUSTERED WELLS OUTSIDE ZONE OF TIDAL INFLUENCE AT SITE 1
SUMMER 2002 THROUGH SPRING 2007

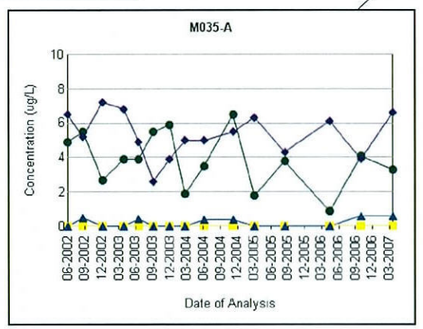
2002 Projects\02-125.11\Graphics\Hydrographs\Sites 1&32\Figure 7.1-6c.ai

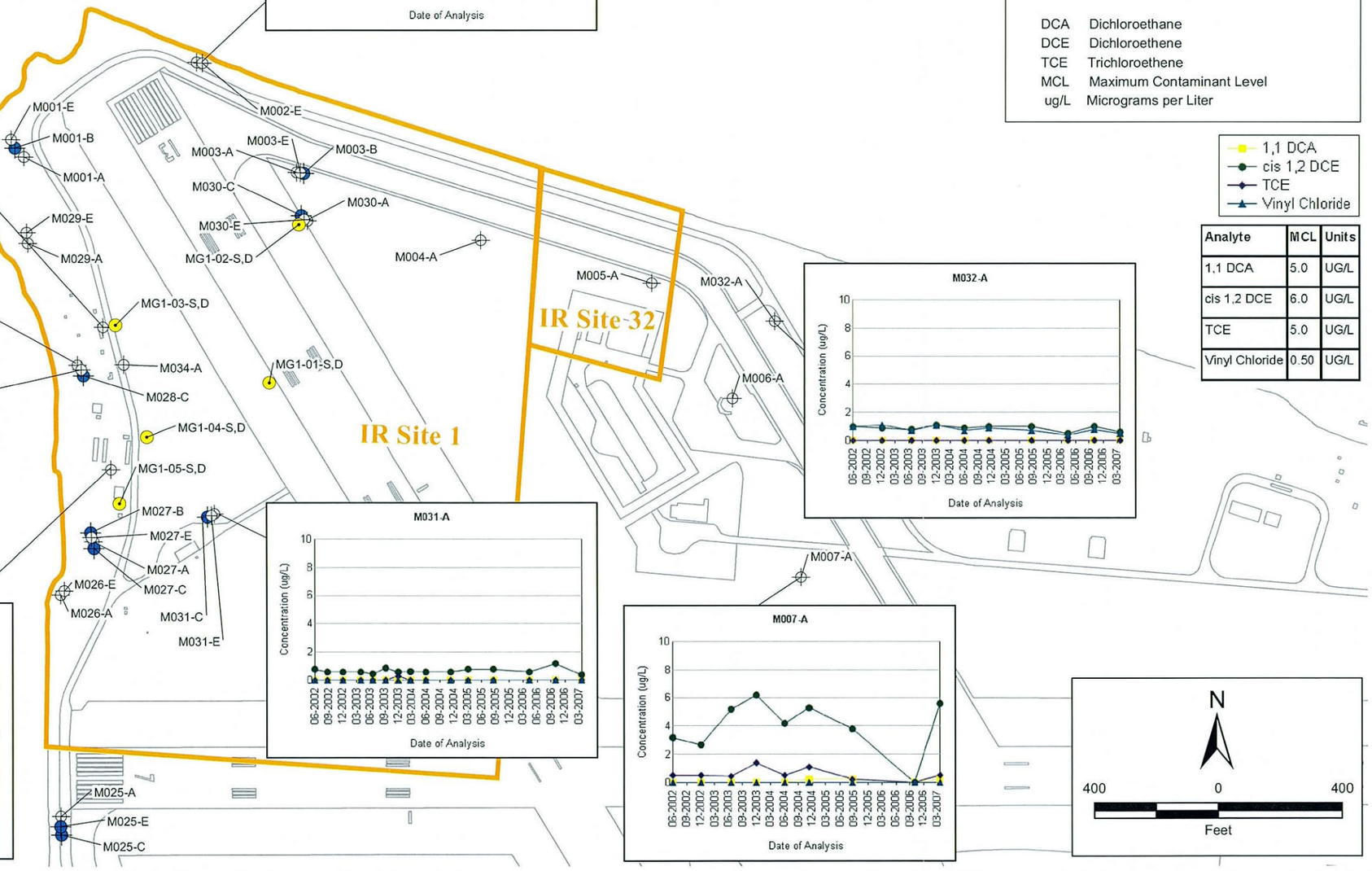












Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility Infrastructure

DCA Dichloroethane
DCE Dichloroethene
TCE Trichloroethene
MCL Maximum Contaminant Level
ug/L Micrograms per Liter

1,1 DCA
cis 1,2 DCE
TCE
Vinyl Chloride

Analyte	MCL	Units
1,1 DCA	5.0	UG/L
cis 1,2 DCE	6.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

N

400 0 400

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 2007 1&32 Chlor HydroC Trend Map.mxd

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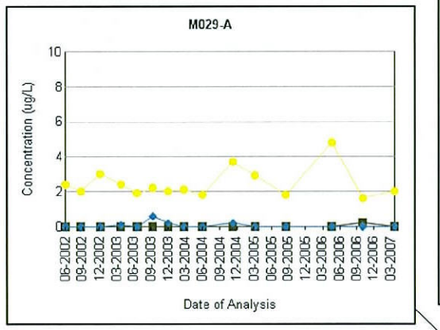
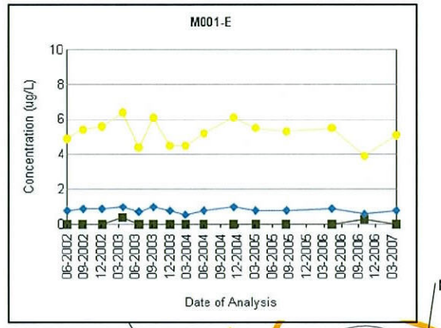
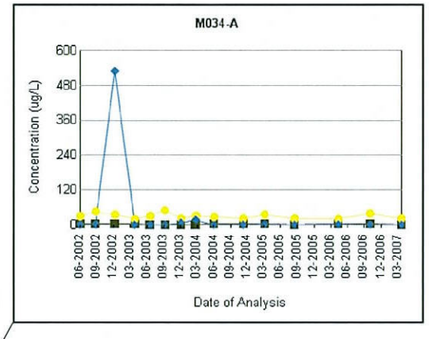
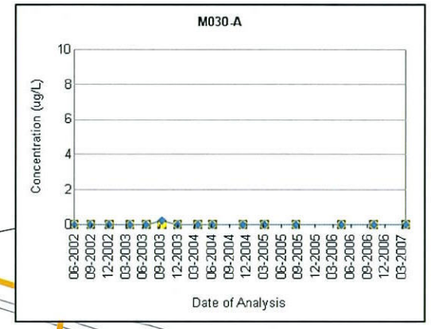
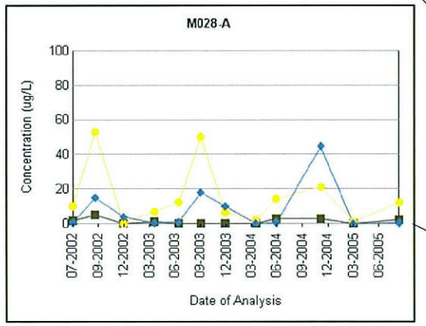
FIGURE 7.1-7
OPERABLE UNIT 3 - IR SITES 1 AND 32
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

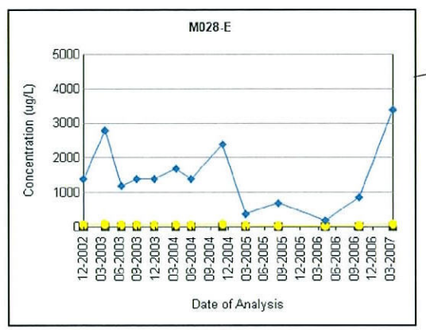


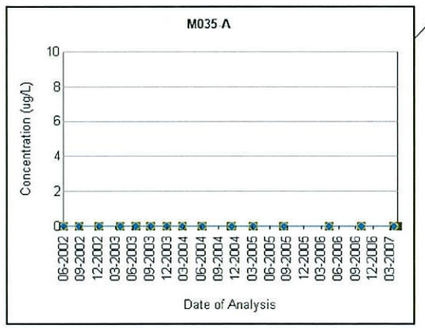


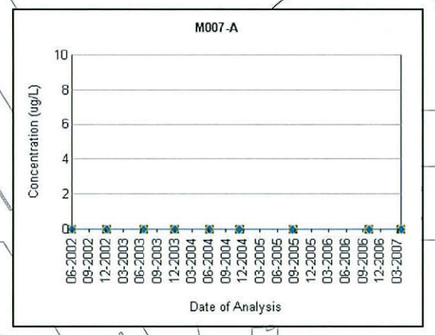


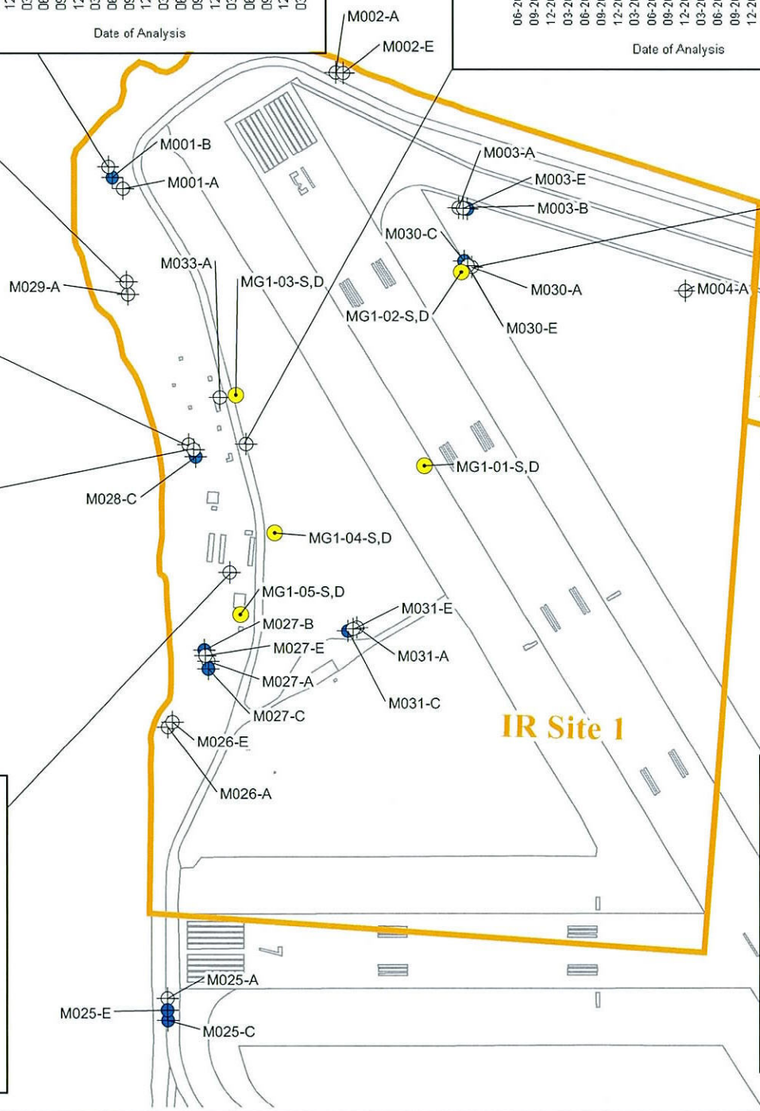












Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility Infrastructure

DCBZ Dichlorobenzene
MCL Maximum Contaminant Level
ug/L Micrograms per Liter

1,4 DCBZ
Benzene
Toluene

Analyte	MCL	Units
1,4 DCBZ	5.0	UG/L
Benzene	1.0	UG/L
Toluene	150	UG/L

400 0 400
Feet

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FIGURE 7.1-8
OPERABLE UNIT 3 - IR SITES 1 AND 32
GROUNDWATER CONCENTRATIONS OF AROMATIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

8.0 OPERABLE UNIT 4A

Operable Unit 4A is comprised of Installation Restoration Site 2.

8.1 INSTALLATION RESTORATION SITE 2

IR Site 2 is located in the southwestern corner of Alameda Point, west of former Runway 31, immediately south of IR Site 1 and east of San Francisco Bay. The rectangular-shaped site encompasses approximately 110 acres and consists entirely of open space, the extreme southwest corner of which is classified as a wetland. The site layout, showing groundwater and landfill gas monitoring well locations, is presented on Figure 8.1-1.

IR Site 2 is the former West Beach Landfill, which was operated from the 1950s through 1978. Solid wastes disposed in the landfill included dredge spoils, batteries, ordnance, radiological materials (i.e., instrument dials with radium paint), asbestos, scrap metal, and spent sandblasting abrasives. Liquid wastes disposed in the landfill include solvents, paints, plating bath sludge, waste oil, PCBs, pesticides, and medical wastes. During the 1980s, the landfill was covered with soil that was excavated from the south area of the landfill. An earthen berm approximately 55 feet wide and seven feet high marks the northeast corner of the disposal area, and the entire area is surrounded by a raised berm. The berm is covered with vegetation and provides a nesting ground for birds and other wildlife (Shaw 2004).

Potential sources of contamination include the following:

- Landfill materials or waste;
- Road surfaces that were constructed with sandblast grit where oil potentially containing PCBs was used for dust suppression;
- Radionuclides and ordnance present in the surface soil.

On July 21, 2003, the California Regional Water Quality Control Board issued a letter stating that "the quality and nature of the groundwater in the first and second water bearing zones beneath Alameda Point west of Saratoga Street are such that these waters are not potential sources of drinking water pursuant to State Board Resolution No. 88-63 and Regional Board Resolution 89-39." The regulatory agencies for Alameda Point concurred with this RWQCB

finding. Therefore, maximum contaminant levels (MCLs) are not applicable as a regulatory limit at OU-4A. Analytical results are screened against MCLs as a means of comparison only.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 2 included sampling and analysis of 43 groundwater monitoring wells (30 FWBZ wells and 13 SWBZ wells) and 13 soil gas monitoring points. All groundwater and soil gas monitoring points in the Summer 2006 through Spring 2007 program and their analytical requirements are listed in Table 8.1-1. The table also shows the screened interval, water-bearing zone, and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 8.1-1.

8.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 57 groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling events at IR Site 2. The results are presented along with previously collected water-level data in Table 8.1-2. Groundwater gradient and flow direction are discussed in Section 8.1.4.1, and trends in groundwater elevation are discussed in Section 8.1.4.4.

8.1.2 Analytical Parameters

Groundwater samples collected from monitoring wells at IR Site 2 during the Summer 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- TPH as Diesel, Jet Fuel, and Motor Oil by EPA Method 8015B
- TPH as Gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- PAHs by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- PCBs by EPA Method 8082
- Organochlorine Pesticides by EPA Method 8081A
- Radionuclides by EPA Methods 9310/900.0, 901.1, 9315/903.0, 906.0, 904.0, 905.0, and 908 modified

- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

Table 8.1-1 lists the IR Site 2 groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well.

In addition, soil gas samples collected from landfill gas monitoring points were analyzed for VOCs (EPA Method TO-15) and Fixed Gases (ASTM Method D1946).

8.1.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 and Spring 2007) are summarized in the following sections, and listed along with previously obtained analytical data in the following tables:

- Table 8.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-4, "Groundwater Sample Analytical Results: Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-5, "Groundwater Sample Analytical Results: Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-6, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-7, "Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2, Spring 2004 through Spring 2007"
- Table 8.1-8, "Groundwater Sample Analytical Results: Organochlorine Pesticides at Operable Unit 4A - IR Site 2, Spring 2004 through Spring 2007"
- Table 8.1-9, "Groundwater Sample Analytical Results: Radionuclides at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-10, "Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-11, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2, Summer 2002 through Spring 2007"
- Table 8.1-12, "Soil Gas Analytical Results: Volatile Organic Compounds and Fixed Gases at Operable Unit 4A - IR Site 2, Fall 2002 through Spring 2007".

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs, even though MCLs are not directly applicable due to the location of this site to the west of Saratoga Street. Analytical results in the tables are also compared to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in **bold** text on the metals tables only.

8.1.4 Discussion of Results

Concentrations of extractable TPH (mainly diesel), aromatic hydrocarbons (benzene, toluene, ethylbenzene, and total xylenes [BTEX] and naphthalene), and associated chlorinated aromatics (chlorobenzene, 1,4-DCBZ) have been consistently detected in groundwater samples collected from several groundwater monitoring wells screened in the FWBZ at IR Site 2. Groundwater concentrations of predominantly diesel-range hydrocarbons exceeding 100 µg/L are widespread in shallow groundwater underlying the site (Table 8.1-3).

The following VOC analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 to Spring 2007 sampling year: **benzene, chlorobenzene, 1,4-DCBZ,** and **1,2-DCA** (Table 8.1-13). The distribution of VOCs in FWBZ groundwater monitoring wells at IR Site 2 is discussed more fully in Section 8.1.4.2.

No volatile organic constituents were detected at concentrations exceeding MCLs in the SWBZ wells. However, TCE was detected for the first time, at a concentration of 4 µg/L, at well M016-B in Spring 2007.

The following SVOC analytes were detected at concentrations exceeding their respective MCLs in FWBZ and SWBZ wells during the Summer 2006 to Spring 2007 sampling year: **bis (2-ethylhexyl) phthalate** and **1,4-DCBZ** (Table 8.1-13).

Groundwater samples collected from IR Site 2 wells have consistently shown relatively low to non-detect concentrations of PAHs since sampling was initiated in Summer 2002 (Tables 8.1-5 and 8.1-13). The current sampling year maximum concentration was naphthalene at 40 µg/L. PAHs are most commonly associated with petroleum hydrocarbons. Concentrations of PAHs in groundwater at IR Site 2 (the historical maximum was naphthalene at 290 µg/L) were generally limited to wells showing TPH-diesel concentrations that exceeded 100 µg/L.

The following dissolved metals were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 to Spring 2007 sampling year: **antimony**, **arsenic**, and **barium**, (Table 8.1-13). Cadmium, selenium, and thallium and aluminum were detected above MCLs in previous years, but not in the current sampling year. Most detections of dissolved metals, with the possible exception of certain detections of arsenic, barium, and selenium, were at concentrations that did not differ significantly from the established background values (Tetra Tech, 2004).

Various metals have been detected above their respective MCLs in one or more SWBZ wells in previous sampling years. However, concentration levels of metals have been very irregular, with non-detects frequently being reported following detects at the same wells. During this sampling year, metals were not detected at concentrations above the respective MCLs in any of the SWBZ wells. Background values have not been established for metals in SWBZ groundwater.

PCBs were not detected in groundwater samples collected from IR Site 2 wells during the current sampling year (Table 8.1-7). Prior to the current year, only two samples have showed a detectable PCB concentrations since sampling for PCBs was initiated at IR Site 2 in Spring 2004. Low concentrations of organochlorine pesticides have been sporadically detected at IR Site 2 wells since pesticide sampling was initiated in Spring 2004. The distribution of organochlorine pesticides in FWBZ groundwater monitoring wells for this monitoring year at IR Site 2 is similar

to previous years, when MCL exceedances were reported for several wells at the site (Table 4-13). Concentrations of gamma-chlordane were greater than MCLs at four wells during the summer 2006 sampling event, but not at any wells during the Spring 2007 event. Heptachlor was detected above MCLs at four wells during the summer 2006 event, but only one well during the spring 2007 event. Heptachlor epoxide was detected above MCLs at five wells during the summer event and three wells during the spring event. Heptachlor and heptachlor epoxide distributions for Spring 2007 are shown on Figure 8.1-4.

The results of the Summer 2006 through Spring 2007 radionuclide analysis are discussed below followed by the results of an evaluation of the cumulative data set. The following radionuclides were detected in the first and second water-bearing zones at concentrations exceeding their respective MCLs during the Summer 2006 to Spring 2007 sampling year (Tables 8.1-9 and 8.1-13):

First Water-Bearing Zone

- **Gross Alpha** has been reported above the MCL of 15 pCi/L during only one sampling event, at a maximum concentration of 138J pCi/L (estimated value) in groundwater collected from well M019-E during Summer 2005. The maximum concentration detected during the Summer 2006 and Spring 2007 sampling events was 2.6J pCi/L.
- **Gross Beta** was measured above the MCL of 50 pCi/L in 16 FWBZ wells, at a maximum concentration of 512 pCi/L in groundwater collected from well M020-E, in Spring 2007. Gross beta values are commonly present in groundwater collected from the FWBZ wells at concentrations above the MCL of 50 pCi/L.
- **Radium 226 and 228** were detected above the MCL of 5 pCi/L (for the sum of the isotopes) in eight FWBZ wells, at a maximum concentration of 15.1 pCi/L (sum of isotopes) in groundwater collected from well M022-E in Spring 2007.

Second Water-Bearing Zone

- **Gross Alpha** was measured above the MCL of 15 pCi/L in one SWBZ well, at a concentration of 85.2 J pCi/L in groundwater collected from well M039-B in Summer 2006. This concentration was the only gross alpha detection found in IR Site 2 groundwater samples collected during the current sampling year.
- **Gross Beta** was measured above the MCL of 50 pCi/L in 13 SWBZ wells, at a maximum concentration of 263 pCi/L in groundwater collected from well M039-

B in Spring 2007. Gross beta values are commonly present in groundwater collected from the SWBZ wells at concentrations above the MCL of 50 pCi/L.

- **Radium 226 and 228** were detected above the MCL of 5 pCi/L (for the sum of the isotopes) in one SWBZ well, at a oncentration of 32.6 pCi/L (sum of isotopes) in groundwater collected from well M038-B in Summer 2006.

Soil gas results indicate that concentrations of vapor-phase aromatic hydrocarbons (benzene, toluene, ethylbenzene, xylenes, naphthalene, chlorobenzene) are common in the vadose zone at IR Site 2. The highest VOC concentrations detected in soil gas during the current sampling year (Summer 2006 through Spring 2007) were: benzene at 300 parts per billion by volume (ppbv), chlorobenzene at 1,200 ppbv, and naphthalene at 260 ppbv (Table 8.1-12). Soil gas VOC concentrations were typically higher in probes screened in the lower (deeper) portions of the vadose zone. The distribution of VOCs in soil gas at IR Site 2 is further discussed in Section 8.1.4.2.

8.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 8.1-2. Groundwater flow direction in the FWBZ at IR Site 2 is generally towards the southwest at a gradient ranging from approximately 0.002 to 0.007 feet per foot, with strong westward and southward flow components as groundwater approaches the site's San Francisco Bay shorelines. Groundwater monitoring wells along the western and southern shoreline limits of IR Site 2 show moderate to strong tidal influence (Shaw, 2006), as discussed in Section 1.3.

Groundwater flow direction in the SWBZ at IR Site 2 is generally towards the west and southwest at a gradient ranging from approximately 0.002 to 0.003 feet per foot. Water levels in SWBZ wells at inland locations at IR Site 2 are generally 1 to 3 feet lower than those in nearby FWBZ wells, indicating an overall downward vertical gradient. Locations along the shoreline show inversions of this downward gradient, because SWBZ wells there (at M-016, M-020, M-021, and M-023) have water levels up to about 2 feet higher than the FWBZ wells in the well cluster. Vertical gradients are discussed more fully in Section 8.1.4.4.

8.1.4.2 Groundwater Contaminant Distribution

Concentrations of aromatic hydrocarbons and associated chlorinated aromatics are present within a widespread zone of TPH-impacted groundwater at IR Site 2. The approximate distribution of

aromatic hydrocarbons in groundwater is shown on Figure 8.1-3. Benzene was selected as an indicator compound to show the distribution of volatile organic constituents in groundwater. The highest concentrations of volatile organic constituents are generally found associated with relatively high concentrations (exceeding 100 µg/L) of TPH diesel, jet fuel, motor oil, and/or gasoline in the vicinity of monitoring wells M037-A, M038-A, and M039-A in the central portion of the site. A separate area of elevated aromatic hydrocarbons (also associated with petroleum hydrocarbons) is present in the vicinity of groundwater monitoring well M024-A, near the western shoreline at the northwest corner of IR Site 2. Low concentrations of chlorinated organic compounds were also detected in wells M022-A and M023-A.

Although various metals have had concentrations exceeding MCLs at one or more wells in the current sampling year, most of the exceedances are not believed to represent metals contamination, based on inconsistent results that have mostly been below MCLs (Table 8.1-6). Only arsenic, barium, and antimony have consistently exceeded MCLs in one or more wells, and potentially represent metals contamination. Some of these exceedances are isolated; only arsenic at shoreline-area wells (M018-E, M019-E, M020-E, M021-E, M023-E and M024-E) and barium at M037-E and M038-E represent clusters of contamination that may represent small plumes. The arsenic occurrences appear to be limited to intermediate depths ("E" wells); similar to IR Sites 1 and 32, chemical conditions are reducing, based on high concentrations of iron (5,000 to 45,000 µg/L) and manganese, as well as low ORP readings (Table 8.1-10).

Soil gas results for landfill gas monitoring points reported detections of some of the same organic constituents found in groundwater (benzene, chlorobenzene, naphthalene); these and other aromatic compounds have been consistently detected in soil gas through time. Chlorinated straight-chain (non-aromatic) VOCs have been detected at very low concentrations (generally less than 10 ppbv), and at fewer soil-gas locations than the aromatics. The most frequently detected of these are PCE, TCE, cis-1,2-DCE, and vinyl chloride. Figure 8.1-4 presents selected VOC soil gas detection in the Spring 2007 sampling event.

8.1.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 8.1-13. Table 8.1-13 lists analytes detected

during the current sampling year along with the well location, the maximum detected concentration recorded, and the respective date of sampling for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 8.1-13 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those found in previous sampling years.

Differences with respect to MCLs are (referring to the FWBZ except where noted):

- Selenium, thallium, and aluminum did not exceed their respective MCLs. No metals in the SWBZ exceeded their respective MCLs.
- Gamma-chlordane was detected at concentrations exceeding its MCL at four wells during the Summer 2006 sampling event, but was not detected at any wells during the Spring 2007 event.

8.1.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2007 Annual Report:

- Figure 8.1-6a, "Trends in Groundwater Elevations at Operable Unit 4A - IR Site 2: East-West Oriented FWBZ Wells."
- Figure 8.1-6b, "Trends in Groundwater Elevations at Operable Unit 4A - IR Site 2: Clustered Wells Within Zone of Tidal Influence on West Shoreline Perimeter."
- Figure 8.1-5c, "Trends in Groundwater Elevations at Operable Unit 4A - IR Site 2: Clustered Wells Within Zone of Tidal Influence on South Shoreline Perimeter."
- Figure 8.1-6d, "Trends in Groundwater Elevations at Operable Unit 4A - IR Site 2: Clustered Wells Outside Zone of Tidal Influence – Within Benzene Plume."
- Figure 8.1-6e, "Trends in Groundwater Elevations at Operable Unit 4A - IR Site 2: Clustered Wells Outside Zone of Tidal Influence – Upgradient of Plume."

The following observations can be made from viewing the hydrographs:

- Groundwater elevations for wells at IR Site 2 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in winter and spring and seasonal lows in late summer and fall. The similarity in well behavior, even for widely spaced monitoring wells, is apparent on Figure 8.1-6a. The seasonal pattern appears to be less pronounced in wells closer to the shoreline than in those farther inland.
- Hydrographs for clustered wells located along the shoreline and within the zone of tidal influence, as shown on Figures 8.1-6b and 8.1-6c, indicate occasional

reversals in the vertical gradient between co-located FWBZ and SWBZ wells; i.e., groundwater elevations for the FWBZ wells are sometimes higher, and at other times lower, than the corresponding SWBZ wells. These reversals in vertical gradients may be due to tidal fluctuations in the FWBZ wells, but additional information is required to determine if this is the case.

- Hydrographs for clustered wells farther from the shoreline and presumably outside the zone of tidal influence, as shown on Figures 8.1-6d and 8.1-6e, consistently indicate a downward vertical gradient between co-located FWBZ and SWBZ wells; i.e., groundwater elevations for the FWBZ wells are generally higher than the corresponding SWBZ wells. In addition, seasonal patterns that are apparent site-wide in the FWBZ wells are closely mirrored in the SWBZ wells away from shore. Reversals in vertical gradient are still seen in some locations, especially between the SWBZ wells and co-located "E" designated wells screened in the lower portion of the FWBZ. A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is missing.
- Upgradient wells show a very consistent seasonal pattern in both FWBZ and SWBZ wells and also show a consistent downward vertical gradient, as shown on Figure 8.1 6e.
- In general, the hydrographs for IR Site 2 wells outside the area of tidal influence indicate a slight overall increase in groundwater elevations over time, i.e., peak seasonal elevations for most wells have shown a tendency to increase from 2002 to 2006, with a slight decline in 2007.

8.1.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of diesel-range TPH, aromatic hydrocarbons (mainly BTEX and naphthalene), and associated chlorinated aromatic hydrocarbons (chlorobenzene, 1,4-DCBZ) have been consistently detected in groundwater at IR Site 2 since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figure 8.1 7.

Concentrations of various organochlorine pesticides (dieldrin, chlordane, endosulfan, endrin, benzene hexachloride, and heptachlor) have been frequently detected in groundwater at certain IR Site 2 wells since monitoring for pesticides was initiated in Spring 2004. Trends in groundwater concentrations of heptachlor over time are shown on Figure 8.1-8. Groundwater concentrations of organic constituents at IR Site 2 tend to show fluctuations over time, but for aromatic hydrocarbons there does not appear to be a consistent pattern or overall

direction to the changes noted. However, organochlorine pesticides appear to have declined since 2004 and early 2006 (Figure 8.1-8).

Although groundwater concentrations of organic constituents at IR Site 2 tend to show considerable fluctuations over time, there does not appear to be a consistent pattern or overall direction to the changes noted. Concentrations of aromatic hydrocarbons and low but detectable concentrations of organochlorine pesticides are persistent over time and are consistently detected in areas of TPH-impacted groundwater, especially where concentrations of diesel-range hydrocarbons are relatively high.

8.1.4.6 Trends in Radionuclides

In the Spring 2004 Annual Report, Shaw presented an evaluation of the previously collected radiological data entitled *Evaluation of Eight Rounds of Alameda NAS Radiological Groundwater Analyses Obtained from June 2002 through April 2004* (Shaw, 2004, Appendix D). The evaluation was presented in a Memorandum included as Appendix D in the Spring 2004 Annual Report. In the Memorandum, Shaw concluded that no gross alpha anomalies were present in any of the samples collected during the first eight rounds of sampling for radiological analysis at Sites 1 and 2. In general, the previous and current year's sampling results tend to support that conclusion, since gross alpha concentrations above the MCL are uncommon and do not appear consistently in any one well at Sites 1 and 2.

Gross beta activity at Site 2 was recorded for almost every well at the site in both the FWBZ and SWBZ, and concentrations above the MCL were common in the Summer 2006 to Spring 2007 groundwater samples as well as in previous sampling events. Shaw concluded in the Spring 2004 Annual Report that there is a strong positive correlation between total potassium concentrations and gross beta activity at both Sites 1 and 2. This suggests that naturally-occurring potassium-40 may be a significant contributor to gross beta activity observed in the groundwater (Shaw, 2004). The current sampling year's data tend to support this interpretation: Potassium was very low (about 10 mg/L) in wells that had no exceedances of the MCL for gross beta (wells 442-MW1, M012-A, M-013A, and M014-A), but was considerably higher (100 to 1,000 mg/L) in wells with MCL exceedances for gross beta.

Six wells at Site 2 have shown radium 226 and 228 concentrations above the MCL (5 pCi/L for the sum of isotopes) in most sampling events: M020-E, M021-E, M022-E, M023-E, M037-E, and M038-E (Table 8.1-9). All of these wells are screened in the lower portion of the FWBZ. This pattern continued during the current sampling year, with no apparent upward or downward trend with time.

Well M016-E, located at the southeast corner of the site, has consistently shown detections of tritium since the initiation of radionuclide analysis as part of the Basewide Groundwater Monitoring Program. The maximum level was reported at 3,810 pCi/L in Spring 2004. Tritium concentrations in the current sampling year remained relatively high (greater than 2,500 pCi/L). Nevertheless, these concentrations remain well below the MCL of 20,000 pCi/L for tritium.

Based on an evaluation of the U-234/U-238 ratios at the site, Shaw concluded in the Spring 2004 Annual Report that the source of the detected uranium isotopes at Sites 1 and 2 is natural rather than due to depleted or enriched materials. The current sampling year's data at Site 2 tend to support this interpretation.

8.1.5 Conclusions and Recommendations

Groundwater samples from IR Site 2 contain a variety of analytes exceeding MCLs, including aromatic and chlorinated VOCs, SVOCs, metals, organochlorine pesticides, and radionuclides. The highest concentrations of VOCs are generally found in the central part of the site correlated with relatively high concentrations of TPH as diesel, jet fuel or motor oil, as well as pesticides. A separate area of aromatic hydrocarbons is present near the northwest corner of the site, and separate areas of chlorinated hydrocarbons are found near the northern site boundary. Temporal trends are not pronounced, and contaminant plumes appear relatively stable.

The soil gas wells indicate the presence of organic vapor and organic biodegradation components in the vapor stream. Over five rounds of soil gas sampling conducted at IR Site 2 indicate similar ranges of organic vapor concentrations with a few sporadic spikes in detection. Based on the Work Plan (Shaw 2004) this determination is adequate to recommend changing the sampling frequency for TO 15 (VOC) analyses to semiannual or annual from the current quarterly

schedule at IR Site 2. The analyses of TO 3 (Fixed Gases) will continue unchanged on the annual schedule at IR Site 2.

Based on review of the natural attenuation database for IR Site 2 and evaluation of data collected in 2006–2007, the Navy recommends discontinuing analysis for natural attenuation parameters. No other changes in the groundwater sampling frequency or analytical parameters are recommended at IR Site 2.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 8.1-1
Groundwater Monitoring Summary, Operable Unit 4A -IR Site 2, Summer 2006 through Spring 2007

				Organic Compounds							Inorganic Compounds	Natural Attenuation Parameters				Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- Gas Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Groundwater Monitoring Program Wells																									
First	442-MW1	Fill	3.5 - 13.5	S	S	S	A	A	S	A	S	A	A	A		S	S	S	S	S	S	S	S		
	M010-A	Fill	5.5 - 15.5			S																			
	M011-A	Fill	3.5 - 13.5	S	S	S	A	A	S	A	S					S	S	S	S	S	S	S	S		
	M012-A	Fill	5 - 15	S	S	S	A	A	S	A	S	A	A	A	A	S	S	S	S	S	S	S	S		
	M013-A	Fill	3.5 - 13.5	S	S	S	A	A	S	A	S					S	S	S	S	S	S	S	S		
	M014-A	Fill	4.5 - 14.5	S	S	S	A	A	S	A	S					S	S	S	S	S	S	S	S		
	M016-A	Fill	4 - 14	S	S	S	A	A	S	A		A	A	A	A										
	M016-E	Fill	14 - 24								S					S	S	S	S	S	S	S	S		
	M017-A	Fill	4 - 14	S	S	S	A	A	S	A	S					S	S	S	S	S	S	S	S		
	M018-A	Fill	4 - 14	S	S	S	A	A	S	A															
	M018-E	BSU	36 - 46								S					S	S	S	S	S	S	S	S		
	M019-A	Fill	5 - 15	S	S	S	A	A	S	A															
	M019-E	BSU	30.5 - 40.5								S					S	S	S	S	S	S	S	S		
	M020-A	Fill	3.5 - 13.5	S	S	S	A	A	S	A	S														
	M020-E	Fill	27.5 - 34.5								S					S	S	S	S	S	S	S	S		
	M021-A	Fill	3.5 - 13.5	S	S	S	A	A	S	A															
	M021-E	Fill-BSU	30 - 37								S					S	S	S	S	S	S	S	S		
	M022-A	Fill	3.5 - 13.5	S	S	S	A	A	S	A															
	M022-E	Fill	27.25 - 37.5								S					S	S	S	S	S	S	S	S		
	M023-A	Fill	3.5 - 13.5	S	S	S		A	S	A	S														
	M023-E	Fill	25 - 35				A				S					S	S	S	S	S	S	S	S		
	M024-A	Fill	4 - 14	S	S	S	A	A	S	A	S														
	M024-E	Fill	22 - 32	S	S	S	A	A	S	A	S					S	S	S	S	S	S	S	S		
	M036-A	Fill	5 - 15	S	S	S	A	A	S	A	S	A	A	A	A										
	M036-E	Fill	20 - 30								S					S	S	S	S	S	S	S	S		
	M037-A	Fill	8 - 18	S	S	S	A	A	S	A	S	A	A	A	A										
	M037-E	Fill	15.5 - 25.5								S					S	S	S	S	S	S	S	S		
	M038-A	Fill	5 - 15	S	S	S	A	A	S	A	S	A	A	A	A										
	M038-E	Fill	15 - 25								S					S	S	S	S	S	S	S	S		
	M039-A	Fill	5 - 15	S	S	S	A	A	S	A	S	A	A	A	A	S	S	S	S	S	S	S	S		
Second	M010-B	BSU	35.5 - 43.25	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		
	M012-B	Merritt-USA	63.5 - 73.5	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		
	M013-C	Merritt	69 - 79	S	S	A	A	A			S					S	S	S	S	S	S	S	S		
	M014-B	Merritt	49.5 - 59.5	S	S	A	A	A			S					S	S	S	S	S	S	S	S		
	M016-B	Merritt	45.5 - 55.5	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		

Table 8.1-1
Groundwater Monitoring Summary, Operable Unit 4A -IR Site 2, Summer 2006 through Spring 2007

				Organic Compounds							Inorganic Compounds	Natural Attenuation Parameters				Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Second	M020-B	BSU	55 - 65	S	S	A	A	A			S					S	S	S	S	S	S	S	S		
	M021-C	BSU-USA-YBM	82 - 92	S	S	A	A	A			S					S	S	S	S	S	S	S	S		
	M023-B	BSU	83 - 93	S	S	A	A	A			S					S	S	S	S	S	S	S	S		
	M023-C	BSU-YBM	99.5 - 109.5	S	S	A	A	A			S					S	S	S	S	S	S	S	S		
	M036-B	BSU	90 - 100	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		
	M037-B	BSU-Merritt	77 - 87	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		
	M038-B	BSU	70 - 80	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		
	M039-B	Merritt	52 - 62	S	S	A	A	A			S	A	A	A	A	S	S	S	S	S	S	S	S		
Vadose	MG2-01-S	Landfill	0.5 - 1.8																					Q	A
	MG2-01-D	Landfill	2.5 - 4																					Q	A
	MG2-02-S	Landfill	2 - 3																					Q	A
	MG2-02-M	Landfill	4.5 - 6																					Q	A
	MG2-02-D	Landfill	7 - 9																					Q	A
	MG2-03-S	Landfill	0.5 - 2																					Q	A
	MG2-03-M	Landfill	2.5 - 3.5																					Q	A
	MG2-03-D	Landfill	4.5 - 6																					Q	A
	MG2-04-S	Landfill	1.8 - 2.3																					Q	A
	MG2-04-M	Landfill	3.8 - 5.3																					Q	A
	MG2-04-D	Landfill	6.3 - 7.8																					Q	A
	MG2-05-S	Landfill	1 - 2.5																					Q	A
	MG2-05-D	Landfill	3.5 - 5																					Q	A
Non-Program Wells, Water Level Only																									
First	M009-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M015-A	Fill	4.5 - 14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M103-A	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M104-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M105-A	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M106-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M107-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M108-A	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M109-A	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Second	M103-B	Fill	31.5 - 37.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M104-B	Fill		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M105-B	Fill	58.5 - 68.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M108-B	Fill	47.5 - 57.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 8.1-1
Groundwater Monitoring Summary, Operable Unit 4A -IR Site 2, Summer 2006 through Spring 2007

				Organic Compounds							Inorganic Compounds	Natural Attenuation Parameters				Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Nitrate, Nitrite, Chloride, Sulfate (EPA90056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Second	DRA-01	Fill	35 - 45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007
A Well sampled for this analyte group ANNUALLY; Spring 2007
Q Well sampled for this analyte group QUARTERLY; Summer 2006, Fall 2006, Winter 2006, and Spring 2007
\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compound
PCBs - Polychlorinated Biphenyls

GER - Gamma Emitting Radionuclides
(8260B) - U.S. Environmental Protection Agency analytical method
TDS - Total Dissolved Solids
ASTM - American Society for Testing and Materials

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	442-MW1	8.0	7.83 *	03/06/07	1.31	6.52
		8.0	7.83 *	12/12/06	0.85	6.98
		8.0	7.83 *	09/25/06	3.37	4.46
		8.0	7.83 *	04/12/06	0.28	7.55
		8.0	7.83 *	08/22/05	3.20	4.63
		8.0	7.83 *	03/01/05	0.65	7.18
		8.0	7.83 *	11/10/04	2.11	5.72
		8.0	7.83 *	06/14/04	3.17	4.66
		8.0	7.83 *	03/02/04	0.65	7.18
		8.0	7.83 *	12/03/03	2.49	5.34
		8.0	7.83 *	09/15/03	3.53	4.30
		8.0	7.83 *	06/24/03	3.02	4.81
		8.0	7.83 *	04/08/03	1.96	5.87
		8.0	7.83 *	12/09/02	2.83	5.00
		8.0	7.83 *	09/13/02	5.77	2.06
		8.0	7.83 *	07/10/02	3.53	4.30
First	M009-A ‡	7.7	7.15	03/06/07	NM	NC
		7.7	7.15	12/12/06	NM	NC
		7.7	7.15	09/25/06	1.08	6.07
		7.7	7.15	04/12/06	NM	NC
		7.7	7.15	08/22/05	0.70	6.45
		7.7	7.15	03/01/05	0.00†	7.15
		7.7	7.15	11/10/04	2.81	4.34
		7.7	7.15	06/14/04	0.80	6.35
		7.7	7.15	03/02/04	0.00†	7.15
		7.7	7.15	12/03/03	0.74	6.41
		7.7	7.15	09/15/03	1.50	5.65
		7.7	7.15	06/24/03	0.84	6.31
		7.7	7.15	04/08/03	0.40	6.75
First	M010-A	8.3	7.90	03/06/07	1.35	6.55
		8.3	7.90	12/12/06	NM	NC
		8.3	7.90	09/25/06	3.34	4.56
		8.3	7.90	04/12/06	NM	NC
		8.3	7.90	08/22/05	3.20	4.70
		8.3	7.90	03/01/05	0.30	7.60
		8.3	7.90	11/10/04	2.56	5.34
		8.3	7.90	06/14/04	2.80	5.10
		8.3	7.90	03/02/04	0.20	7.70
First	M011-A	9.5	8.76 *	03/06/07	2.88	5.88
		9.5	8.76 *	12/12/06	NM	NC
		9.5	8.76 *	09/25/06	4.27	4.49
		9.5	8.76 *	04/12/06	1.42	7.34
		9.5	8.76 *	08/22/05	3.95	4.81
		9.5	8.76 *	03/01/05	1.91	6.85
		9.5	8.76 *	11/10/04	3.12	5.64
		9.5	8.76 *	06/14/04	4.10	4.66
		9.5	8.76 *	03/02/04	1.84	6.92

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M011-A	9.5	8.76 *	12/03/03	3.08	5.68
		9.5	8.76 *	09/15/03	4.56	4.20
		9.5	8.76 *	06/24/03	4.17	4.59
		9.5	8.76 *	04/08/03	3.34	5.42
		9.5	8.76 *	12/09/02	3.59	5.17
		9.5	8.76 *	09/13/02	4.63	4.13
		9.5	8.76 *	07/01/02	4.25	4.51
First	M012-A	11.1	10.77 *	03/06/07	3.20	7.57
		11.1	10.77 *	12/12/06	4.81	5.96
		11.1	10.77 *	09/25/06	5.48	5.29
		11.1	10.77 *	04/12/06	1.17	9.60
		11.1	10.77 *	08/22/05	5.40	5.37
		11.1	10.77 *	03/01/05	2.06	8.71
		11.1	10.77 *	11/10/04	4.70	6.07
		11.1	10.77 *	06/14/04	4.80	5.97
		11.1	10.77 *	03/02/04	1.90	8.87
		11.1	10.77 *	12/03/03	5.21	5.56
		11.1	10.77 *	09/15/03	5.70	5.07
		11.1	10.77 *	06/24/03	4.20	10.77
		11.1	10.77 *	04/08/03	3.43	7.34
		11.1	10.77 *	12/09/02	5.10	5.67
		11.1	10.77 *	09/13/02	5.67	5.10
		11.1	10.77 *	07/01/02	5.04	5.73
First	M013-A	10.8	10.35 *	03/06/07	2.46	7.89
		10.8	10.35 *	12/12/06	3.41	6.94
		10.8	10.35 *	09/25/06	4.10	6.25
		10.8	10.35 *	04/12/06	0.22	10.13
		10.8	10.35 *	08/22/05	4.00	6.35
		10.8	10.35 *	03/01/05	1.16	9.19
		10.8	10.35 *	11/10/04	3.70	6.65
		10.8	10.35 *	06/14/04	3.60	6.75
		10.8	10.35 *	03/02/04	1.08	9.27
		10.8	10.35 *	12/03/03	4.14	6.21
		10.8	10.35 *	09/15/03	4.45	5.90
		10.8	10.35 *	06/24/03	3.60	6.75
		10.8	10.35 *	04/08/03	2.43	7.92
		10.8	10.35 *	12/09/02	4.43	5.92
		10.8	10.35 *	09/13/02	4.79	5.56
		10.8	10.35 *	07/02/02	4.94	5.41
First	M014-A	10.9	10.17 *	03/06/07	2.70	7.47
		10.9	10.17 *	12/12/06	2.56	7.61
		10.9	10.17 *	09/25/06	4.38	5.79
		10.9	10.17 *	04/12/06	0.00	10.17
		10.9	10.17 *	08/22/05	4.23	5.94
		10.9	10.17 *	03/01/05	0.87	9.30
		10.9	10.17 *	11/10/04	3.75	6.42
		10.9	10.17 *	06/14/04	4.03	6.14

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M014-A	10.9	10.17 *	03/02/04	1.15	9.02
		10.9	10.17 *	12/03/03	4.19	5.98
		10.9	10.17 *	09/15/03	4.72	5.45
		10.9	10.17 *	06/24/03	4.04	6.13
		10.9	10.17 *	04/08/03	3.04	7.13
		10.9	10.17 *	12/09/02	4.48	5.69
		10.9	10.17 *	09/13/02	4.94	5.23
		10.9	10.17 *	07/02/02	4.45	5.72
First	M015-A ‡	10.9	10.38	03/12/07	5.49	4.89
		10.9	10.38	12/13/06	4.87	5.51
		10.9	10.38	09/27/06	6.75	3.63
		10.9	10.38	04/17/06	3.85	6.53
		10.9	10.38	08/22/05	5.92	4.46
		10.9	10.38	03/01/05	4.05	6.33
		10.9	10.38	11/10/04	5.11	5.27
		10.9	10.38	06/14/04	5.81	4.57
		10.9	10.38	03/02/04	3.97	6.41
		10.9	10.38	12/03/03	4.37	6.01
		10.9	10.38	09/15/03	5.57	4.81
		10.9	10.38	06/24/03	8.40	1.98
		10.9	10.38	04/08/03	5.52	4.86
First	M016-A	12.3	12.26 *	03/12/07	9.22	3.04
		12.3	12.26 *	12/13/06	8.86	3.40
		12.3	12.26 *	09/27/06	8.64	3.62
		12.3	12.26 *	04/17/06	8.04	4.22
		12.3	12.26 *	08/22/05	9.10	3.16
		12.3	12.26 *	03/01/05	8.19	4.07
		12.3	12.26 *	11/10/04	7.72	4.54
		12.3	12.26 *	06/14/04	8.80	3.46
		12.3	12.26 *	03/02/04	8.01	4.25
		12.3	12.26 *	12/03/03	8.41	3.85
		12.3	12.26 *	09/15/03	8.44	3.82
		12.3	12.26 *	06/24/03	8.93	3.33
		12.3	12.26 *	04/08/03	8.99	3.27
		12.3	12.26 *	12/09/02	8.00	4.26
		12.3	12.26 *	09/13/02	8.59	3.67
		12.3	12.26 *	07/02/02	9.43	2.83
First	M016-E	12.3	12.46 *	03/12/07	9.51	2.95
		12.3	12.46 *	12/13/06	9.11	3.35
		12.3	12.46 *	09/27/06	8.84	3.62
		12.3	12.46 *	04/17/06	8.34	4.12
		12.3	12.46 *	08/22/05	9.40	3.06
		12.3	12.46 *	03/01/05	9.55	2.91
		12.3	12.46 *	11/10/04	7.78	4.68
		12.3	12.46 *	06/14/04	8.97	3.49
		12.3	12.46 *	03/02/04	8.29	4.17
		12.3	12.46 *	12/03/03	8.52	3.94

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M016-E	12.3	12.46 *	09/15/03	8.54	3.92
		12.3	12.46 *	06/24/03	9.14	3.32
		12.3	12.46 *	04/08/03	9.22	3.24
		12.3	12.46 *	12/09/02	8.00	4.46
		12.3	12.46 *	09/13/02	8.71	3.75
		12.3	12.46 *	07/02/02	9.54	2.92
First	M017-A	12.3	12.37 *	03/12/07	10.35	2.02
		12.3	12.37 *	12/13/06	9.58	2.79
		12.3	12.37 *	09/27/06	8.94	3.43
		12.3	12.37 *	04/17/06	9.31	3.06
		12.3	12.37 *	08/22/05	10.35	2.02
		12.3	12.37 *	03/01/05	9.24	3.13
		12.3	12.37 *	11/10/04	7.69	4.68
		12.3	12.37 *	06/14/04	9.10	3.27
		12.3	12.37 *	03/02/04	8.77	3.60
		12.3	12.37 *	12/03/03	8.35	4.02
		12.3	12.37 *	09/15/03	8.75	3.62
		12.3	12.37 *	06/24/03	9.34	3.03
		12.3	12.37 *	04/08/03	9.75	2.62
		12.3	12.37 *	12/09/02	7.98	4.39
		12.3	12.37 *	09/13/02	8.84	3.53
		12.3	12.37 *	07/08/02	10.47	1.90
First	M018-A	11.1	10.97 *	03/12/07	8.71	2.26
		11.1	10.97 *	12/13/06	8.10	2.87
		11.1	10.97 *	09/27/06	7.47	3.50
		11.1	10.97 *	04/17/06	8.05	2.92
		11.1	10.97 *	08/22/05	8.63	2.34
		11.1	10.97 *	03/01/05	7.58	3.39
		11.1	10.97 *	11/10/04	7.41	3.56
		11.1	10.97 *	06/14/04	NM	NC
		11.1	10.97 *	03/02/04	7.18	3.79
		11.1	10.97 *	12/03/03	6.76	4.21
		11.1	10.97 *	09/15/03	7.18	3.79
		11.1	10.97 *	06/24/03	8.08	2.89
		11.1	10.97 *	04/08/03	8.33	2.64
		11.1	10.97 *	12/09/02	6.41	4.56
		11.1	10.97 *	09/13/02	8.42	2.55
		11.1	10.97 *	07/08/02	7.86	3.11
First	M018-E	11.0	10.98 *	03/12/07	8.95	2.03
		11.0	10.98 *	12/13/06	8.01	2.97
		11.0	10.98 *	09/27/06	7.11	3.87
		11.0	10.98 *	04/17/06	8.68	2.30
		11.0	10.98 *	08/22/05	8.63	2.35
		11.0	10.98 *	03/01/05	8.16	2.82
		11.0	10.98 *	11/10/04	5.05	5.93
		11.0	10.98 *	06/14/04	NM	NC
		11.0	10.98 *	03/02/04	7.40	3.58

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M018-E	11.0	10.98 *	12/03/03	6.68	4.30
		11.0	10.98 *	09/15/03	6.95	4.03
		11.0	10.98 *	06/24/03	7.95	3.03
		11.0	10.98 *	04/08/03	8.60	2.38
		11.0	10.98 *	12/09/02	5.89	5.09
		11.0	10.98 *	09/13/02	7.36	3.62
		11.0	10.98 *	07/08/02	7.44	3.54
First	M019-A	11.6	11.25 *	03/12/07	9.27	1.98
		11.6	11.25 *	12/13/06	8.45	2.80
		11.6	11.25 *	09/27/06	7.77	3.48
		11.6	11.25 *	04/17/06	8.51	2.74
		11.6	11.25 *	08/22/05	9.15	2.10
		11.6	11.25 *	03/01/05	8.26	2.99
		11.6	11.25 *	11/10/04	7.72	3.53
		11.6	11.25 *	06/14/04	8.20	3.05
		11.6	11.25 *	03/02/04	7.42	3.83
		11.6	11.25 *	12/03/03	7.19	4.06
		11.6	11.25 *	09/15/03	7.73	3.52
		11.6	11.25 *	06/24/03	8.16	3.09
		11.6	11.25 *	04/08/03	8.93	2.32
		11.6	11.25 *	12/09/02	7.09	4.16
		11.6	11.25 *	09/13/02	7.56	3.69
		11.6	11.25 *	07/08/02	9.25	2.00
First	M019-E	11.2	11.15 *	03/12/07	10.41	0.74
		11.2	11.15 *	12/13/06	9.35	1.80
		11.2	11.15 *	09/27/06	7.70	3.45
		11.2	11.15 *	04/17/06	10.41	0.74
		11.2	11.15 *	08/22/05	10.75	0.40
		11.2	11.15 *	03/01/05	9.50	1.65
		11.2	11.15 *	11/10/04	4.41	6.74
		11.2	11.15 *	06/14/04	7.71	3.44
		11.2	11.15 *	03/02/04	7.95	3.20
		11.2	11.15 *	12/03/03	6.21	4.94
		11.2	11.15 *	09/15/03	6.90	4.25
		11.2	11.15 *	06/24/03	7.50	3.65
		11.2	11.15 *	04/08/03	9.98	1.17
		11.2	11.15 *	12/09/02	5.69	5.46
		11.2	11.15 *	09/13/02	7.59	3.56
		11.2	11.15 *	07/09/02	6.46	4.69
First	M020-A	10.6	10.63 *	03/12/07	6.69	3.94
		10.6	10.63 *	12/13/06	6.42	4.21
		10.6	10.63 *	09/27/06	6.50	4.13
		10.6	10.63 *	04/17/06	5.62	5.01
		10.6	10.63 *	08/22/05	6.43	4.20
		10.6	10.63 *	03/01/05	5.94	4.69
		10.6	10.63 *	11/10/04	6.40	4.23
		10.6	10.63 *	06/14/04	6.89	3.74

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M020-A	10.6	10.63 *	03/02/04	5.90	4.73
		10.6	10.63 *	12/03/03	6.48	4.15
		10.6	10.63 *	09/15/03	6.85	3.78
		10.6	10.63 *	06/24/03	7.10	3.53
		10.6	10.63 *	04/08/03	7.11	3.52
		10.6	10.63 *	12/09/02	6.15	4.48
		10.6	10.63 *	09/13/02	6.72	3.91
		10.6	10.63 *	07/08/02	7.25	3.38
First	M020-E	10.7	10.42 *	03/12/07	9.50	0.92
		10.7	10.42 *	12/13/06	8.38	2.04
		10.7	10.42 *	09/27/06	6.99	3.43
		10.7	10.42 *	04/17/06	9.44	0.98
		10.7	10.42 *	08/22/05	10.00	0.42
		10.7	10.42 *	03/01/05	8.51	1.91
		10.7	10.42 *	11/10/04	4.11	6.31
		10.7	10.42 *	06/14/04	6.97	3.45
		10.7	10.42 *	03/02/04	6.80	3.62
		10.7	10.42 *	12/03/03	5.63	4.79
		10.7	10.42 *	09/15/03	6.55	3.87
		10.7	10.42 *	06/24/03	6.89	3.53
		10.7	10.42 *	04/08/03	8.90	1.52
		10.7	10.42 *	12/09/02	5.06	5.36
		10.7	10.42 *	09/13/02	7.04	3.38
		10.7	10.42 *	07/10/02	6.31	4.11
First	M021-A	8.5	8.75 *	03/12/07	4.77	3.98
		8.5	8.75 *	12/13/06	4.35	4.40
		8.5	8.75 *	09/27/06	4.50	4.25
		8.5	8.75 *	04/17/06	3.73	5.02
		8.5	8.75 *	08/22/05	4.44	4.31
		8.5	8.75 *	03/01/05	3.82	4.93
		8.5	8.75 *	11/10/04	4.08	4.67
		8.5	8.75 *	06/14/04	4.86	3.89
		8.5	8.75 *	03/02/04	3.84	4.91
		8.5	8.75 *	12/03/03	4.16	4.59
		8.5	8.75 *	09/15/03	4.75	4.00
		8.5	8.75 *	06/24/03	4.85	3.90
		8.5	8.75 *	04/08/03	5.20	3.55
		8.5	8.75 *	12/09/02	4.02	4.73
		8.5	8.75 *	09/13/02	4.68	4.07
First	M021-E	8.8	8.91 *	03/12/07	7.48	1.43
		8.8	8.91 *	12/13/06	6.47	2.44
		8.8	8.91 *	09/27/06	5.17	3.74
		8.8	8.91 *	04/17/06	7.51	1.40
		8.8	8.91 *	08/22/05	7.92	0.99
		8.8	8.91 *	03/01/05	6.69	2.22
		8.8	8.91 *	11/10/04	3.26	5.65
		8.8	8.91 *	06/14/04	4.91	4.00

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M021-E	8.8	8.91 *	03/02/04	5.06	3.85
		8.8	8.91 *	12/03/03	3.43	5.48
		8.8	8.91 *	09/15/03	4.90	4.01
		8.8	8.91 *	06/24/03	4.99	3.92
		8.8	8.91 *	04/08/03	8.03	0.88
		8.8	8.91 *	12/09/02	3.45	5.46
		8.8	8.91 *	09/13/02	5.61	3.30
		8.8	8.91 *	07/10/02	5.19	3.72
First	M022-A	7.8	7.56 *	03/12/07	5.82	1.74
		7.8	7.56 *	12/13/06	4.07	3.49
		7.8	7.56 *	09/27/06	3.49	4.07
		7.8	7.56 *	04/17/06	5.70	1.86
		7.8	7.56 *	08/22/05	6.70	0.86
		7.8	7.56 *	03/01/05	5.81	1.75
		7.8	7.56 *	11/10/04	0.91	6.65
		7.8	7.56 *	06/14/04	4.48	3.08
		7.8	7.56 *	03/02/04	2.52	5.04
		7.8	7.56 *	12/03/03	1.89	5.67
		7.8	7.56 *	09/16/03	1.97	5.59
		7.8	7.56 *	06/24/03	3.75	3.81
		7.8	7.56 *	04/08/03	7.11	0.45
		7.8	7.56 *	01/08/03	3.51§	4.05
		7.8	7.56 *	09/13/02	4.41	3.15
		7.8	7.56 *	07/08/02	3.43	4.13
First	M022-E	7.6	7.32 *	03/12/07	6.20	1.12
		7.6	7.32 *	12/13/06	5.16	2.16
		7.6	7.32 *	09/27/06	3.64	3.68
		7.6	7.32 *	04/17/06	6.42	0.90
		7.6	7.32 *	08/22/05	7.05	0.27
		7.6	7.32 *	03/01/05	5.83	1.49
		7.6	7.32 *	11/10/04	0.65	6.67
		7.6	7.32 *	06/14/04	3.38	3.94
		7.6	7.32 *	03/02/04	3.31	4.01
		7.6	7.32 *	12/03/03	1.60	5.72
		7.6	7.32 *	09/15/03	3.92	3.40
		7.6	7.32 *	06/24/03	3.30	4.02
		7.6	7.32 *	04/08/03	7.01	0.31
		7.6	7.32 *	01/07/03	3.25§	4.07
		7.6	7.32 *	09/13/02	4.25	3.07
		7.6	7.32 *	07/12/02	6.42	0.90
First	M023-A	8.6	8.07 *	03/12/07	5.03	3.04
		8.6	8.07 *	12/13/06	3.34	4.73
		8.6	8.07 *	09/27/06	4.00	4.07
		8.6	8.07 *	04/17/06	3.46	4.61
		8.6	8.07 *	08/22/05	3.70	4.37
		8.6	8.07 *	03/01/05	3.78	4.29
		8.6	8.07 *	11/10/04	2.65	5.42

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M023-A	8.6	8.07 *	06/14/04	4.36	3.71
		8.6	8.07 *	03/02/04	2.83	5.24
		8.6	8.07 *	12/03/03	3.48	4.59
		8.6	8.07 *	09/15/03	4.40	3.67
		8.6	8.07 *	06/24/03	4.60	3.47
		8.6	8.07 *	04/08/03	5.86	2.21
		8.6	8.07 *	12/09/02	3.47	4.60
		8.6	8.07 *	09/13/02	4.51	3.56
		8.6	8.07 *	07/09/02	4.35	3.72
First	M023-E	8.3	7.79 *	03/12/07	6.06	1.73
		8.3	7.79 *	12/13/06	5.10	2.69
		8.3	7.79 *	09/27/06	3.83	3.96
		8.3	7.79 *	04/17/06	6.30	1.49
		8.3	7.79 *	08/22/05	6.73	1.06
		8.3	7.79 *	03/01/05	5.57	2.22
		8.3	7.79 *	11/10/04	1.62	6.17
		8.3	7.79 *	06/14/04	4.07	3.72
		8.3	7.79 *	03/02/04	3.00	4.79
		8.3	7.79 *	12/03/03	3.18	4.61
		8.3	7.79 *	09/15/03	4.50	3.29
		8.3	7.79 *	06/24/03	4.20	3.59
		8.3	7.79 *	04/08/03	7.04	0.75
		8.3	7.79 *	12/09/02	2.45	5.34
		8.3	7.79 *	09/13/02	4.78	3.01
		8.3	7.79 *	07/12/02	7.46	0.33
First	M024-A	10.7	10.22 *	03/12/07	5.61	4.61
		10.7	10.22 *	12/13/06	5.75	4.47
		10.7	10.22 *	09/27/06	5.14	5.08
		10.7	10.22 *	04/17/06	4.11	6.11
		10.7	10.22 *	08/22/05	7.25	2.97
		10.7	10.22 *	03/01/05	4.42	5.80
		10.7	10.22 *	11/10/04	4.35	5.87
		10.7	10.22 *	06/14/04	6.13	4.09
		10.7	10.22 *	03/02/04	4.11	6.11
		10.7	10.22 *	12/03/03	5.90	4.32
		10.7	10.22 *	09/15/03	6.33	3.89
		10.7	10.22 *	06/24/03	6.20	4.02
		10.7	10.22 *	04/08/03	6.08	4.14
		10.7	10.22 *	12/09/02	5.75	4.47
		10.7	10.22 *	09/13/02	6.66	3.56
		10.7	10.22 *	07/08/02	6.35	3.87
First	M024-E	10.2	9.83 *	03/12/07	6.67	3.16
		10.2	9.83 *	12/13/06	6.32	3.51
		10.2	9.83 *	09/27/06	5.58	4.25
		10.2	9.83 *	04/17/06	6.04	3.79
		10.2	9.83 *	08/22/05	6.35	3.48
		10.2	9.83 *	03/01/05	5.76	4.07

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M024-E	10.2	9.83 *	11/10/04	5.63	4.20
		10.2	9.83 *	06/14/04	5.72	4.11
		10.2	9.83 *	03/02/04	3.89	5.94
		10.2	9.83 *	12/03/03	5.21	4.62
		10.2	9.83 *	09/15/03	7.20	2.63
		10.2	9.83 *	06/24/03	5.77	4.06
		10.2	9.83 *	04/08/03	7.04	2.79
		10.2	9.83 *	12/09/02	5.13	4.70
		10.2	9.83 *	09/13/02	6.60	3.23
		10.2	9.83 *	07/08/02	6.17	3.66
First	M036-A	7.3	7.06 *	03/06/07	1.84	5.22
		7.3	7.06 *	12/12/06	2.15	4.91
		7.3	7.06 *	09/27/06	2.71	4.35
		7.3	7.06 *	04/12/06	0.77	6.29
		7.3	7.06 *	08/22/05	2.70	4.36
		7.3	7.06 *	03/01/05	0.90	6.16
		7.3	7.06 *	11/10/04	2.38	4.68
		7.3	7.06 *	06/14/04	2.54	4.52
		7.3	7.06 *	03/02/04	2.70	4.36
		7.3	7.06 *	12/03/03	2.74	4.32
		7.3	7.06 *	09/15/03	2.91	4.15
		7.3	7.06 *	06/24/03	2.71	4.35
		7.3	7.06 *	04/08/03	2.26	4.80
		7.3	7.06 *	12/10/02	2.69	4.37
		7.3	7.06 *	09/13/02	3.20	3.86
		7.3	7.06 *	07/09/02	2.89	4.17
First	M036-E	7.1	6.93 *	03/06/07	2.66	4.27
		7.1	6.93 *	12/12/06	NM	NC
		7.1	6.93 *	09/25/06	3.15	3.78
		7.1	6.93 *	04/12/06	1.75	5.18
		7.1	6.93 *	08/22/05	3.30	3.63
		7.1	6.93 *	03/01/05	2.47	4.46
		7.1	6.93 *	11/10/04	2.83	4.10
		7.1	6.93 *	06/14/04	3.46	3.47
		7.1	6.93 *	03/02/04	0.80	6.13
		7.1	6.93 *	12/03/03	3.26	3.67
		7.1	6.93 *	09/15/03	3.66	3.27
		7.1	6.93 *	06/24/03	3.67	3.26
		7.1	6.93 *	04/08/03	3.80	3.13
		7.1	6.93 *	12/10/02	3.57	3.36
		7.1	6.93 *	09/13/02	3.77	3.16
		7.1	6.93 *	07/09/02	3.88	3.05
First	M037-A	10.9	10.80 *	03/06/07	4.23	6.57
		10.9	10.80 *	12/12/06	7.55	3.25
		10.9	10.80 *	09/25/06	5.59	5.21
		10.9	10.80 *	04/12/06	3.30	7.50
		10.9	10.80 *	08/22/05	5.40	5.40

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M037-A	10.9	10.80 *	03/01/05	5.31	5.49
		10.9	10.80 *	11/10/04	4.73	6.07
		10.9	10.80 *	06/14/04	4.95	5.85
		10.9	10.80 *	03/02/04	3.85	6.95
		10.9	10.80 *	12/03/03	5.50	5.30
		10.9	10.80 *	09/15/03	5.58	5.22
		10.9	10.80 *	06/24/03	5.11	5.69
		10.9	10.80 *	04/08/03	4.52	6.28
		10.9	10.80 *	12/10/02	5.29	5.51
		10.9	10.80 *	09/13/02	5.64	5.16
		10.9	10.80 *	07/09/02	5.11	5.69
First	M037-E	10.9	10.69 *	03/06/07	6.16	4.53
		10.9	10.69 *	12/12/06	NM	NC
		10.9	10.69 *	09/25/06	6.96	3.73
		10.9	10.69 *	04/12/06	5.27	5.42
		10.9	10.69 *	08/22/05	6.25	4.44
		10.9	10.69 *	03/01/05	3.69	7.00
		10.9	10.69 *	11/10/04	6.76	3.93
		10.9	10.69 *	06/14/04	5.60	5.09
		10.9	10.69 *	03/02/04	5.58	5.11
		10.9	10.69 *	12/03/03	7.52	3.17
		10.9	10.69 *	09/15/03	7.25	3.44
		10.9	10.69 *	06/24/03	7.52	3.17
		10.9	10.69 *	04/08/03	6.64	4.05
		10.9	10.69 *	12/10/02	7.00	3.69
		10.9	10.69 *	09/13/02	7.59	3.10
		10.9	10.69 *	07/09/02	7.39	3.30
First	M038-A	15.1	15.09 *	03/06/07	5.89	9.20
		15.1	15.09 *	12/12/06	4.70	10.39
		15.1	15.09 *	09/25/06	8.09	7.00
		15.1	15.09 *	04/12/06	4.07	11.02
		15.1	15.09 *	08/22/05	8.10	6.99
		15.1	15.09 *	03/01/05	4.93	10.16
		15.1	15.09 *	11/10/04	6.76	8.33
		15.1	15.09 *	06/14/04	7.36	7.73
		15.1	15.09 *	03/02/04	5.52	9.57
		15.1	15.09 *	12/03/03	8.83	6.26
		15.1	15.09 *	09/15/03	8.64	6.45
		15.1	15.09 *	06/24/03	7.75	7.34
		15.1	15.09 *	04/08/03	6.63	8.46
		15.1	15.09 *	12/10/02	8.84	6.25
		15.1	15.09 *	09/13/02	8.91	6.18
		15.1	15.09 *	07/11/02	9.28	5.81
First	M038-E	15.0	14.36 *	03/06/07	9.24	5.12
		15.0	14.36 *	12/12/06	8.66	5.70
		15.0	14.36 *	09/25/06	9.58	4.78
		15.0	14.36 *	04/12/06	7.16	7.20

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M038-E	15.0	14.36 *	08/22/05	9.55	4.81
		15.0	14.36 *	03/01/05	7.40	6.96
		15.0	14.36 *	11/10/04	6.62	7.74
		15.0	14.36 *	06/14/04	9.05	5.31
		15.0	14.36 *	03/02/04	7.53	6.83
		15.0	14.36 *	12/03/03	11.22	3.14
		15.0	14.36 *	09/15/03	9.90	4.46
		15.0	14.36 *	06/24/03	9.36	5.00
		15.0	14.36 *	04/08/03	9.05	5.31
		15.0	14.36 *	12/10/02	10.24	4.12
		15.0	14.36 *	09/13/02	9.99	4.37
		15.0	14.36 *	07/10/02	10.52	3.84
First	M039-A	16.8	16.50 *	03/06/07	10.68	5.82
		16.8	16.50 *	12/12/06	NM	NC
		16.8	16.50 *	09/25/06	12.09	4.41
		16.8	16.50 *	04/12/06	7.55	8.95
		16.8	16.50 *	08/22/05	12.00	4.50
		16.8	16.50 *	03/01/05	8.46	8.04
		16.8	16.50 *	11/10/04	12.07	4.43
		16.8	16.50 *	06/14/04	11.60	4.90
		16.8	16.50 *	03/02/04	8.65	7.85
		16.8	16.50 *	12/03/03	12.60	3.90
		16.8	16.50 *	09/15/03	12.60	3.90
		16.8	16.50 *	06/24/03	11.80	4.70
		16.8	16.50 *	04/08/03	10.60	5.90
		16.8	16.50 *	12/10/02	12.54	3.96
		16.8	16.50 *	09/13/02	12.73	3.77
		16.8	16.50 *	07/10/02	12.23	4.27
First	M103-A	NA	10.51	03/06/07	1.04	9.47
		NA	10.51	12/12/06	NM	NC
		NA	10.51	09/25/06	3.77	6.74
		NA	10.51	04/12/06	0.00	10.51
First	M104-A	NA	9.76	03/06/07	0.95	8.81
		NA	9.76	12/12/06	NM	NC
		NA	9.76	09/25/06	2.84	6.92
		NA	9.76	04/12/06	0.45	9.31
First	M105-A ‡	11.4	10.81	03/06/07	1.36	9.45
		11.4	10.81	12/12/06	NM	NC
		11.4	10.81	09/25/06	3.78	7.03
		11.4	10.81	04/12/06	0.00	10.81
		11.4	10.81	08/22/05	5.89	4.92
		11.4	10.81	03/01/05	0.29	10.52
		11.4	10.81	11/10/04	3.00	7.81
		11.4	10.81	06/14/04	3.40	7.41
		11.4	10.81	03/02/04	0.60	10.21
		11.4	10.81	12/03/03	3.70	7.11
		11.4	10.81	09/16/03	NM	NC

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M105-A ‡	11.4	10.81	06/24/03	3.15	7.66
		11.4	10.81	04/08/03	1.87	8.94
First	M108-A	NA	11.68	03/06/07	1.60	10.08
		NA	11.68	12/12/06	1.91	9.77
		NA	11.68	09/25/06	2.88	8.80
		NA	11.68	04/12/06	0.00	11.68
First	M109-A	NA	15.31	03/06/07	5.13	10.18
		NA	15.31	12/12/06	6.22	9.09
		NA	15.31	09/25/06	5.71	9.60
		NA	15.31	04/12/06	3.15	12.16
Second	DRA-01	8.0	7.83 *	03/06/07	5.49	2.34
Second	M010-B	8.8	8.30 *	03/06/07	1.40	6.90
		8.8	8.30 *	12/12/06	NM	NC
		8.8	8.30 *	09/25/06	3.10	5.20
		8.8	8.30 *	08/22/05	NM	NC
		8.8	8.30 *	08/22/05	3.10	5.20
		8.8	8.30 *	03/02/05	0.76	7.54
		8.8	8.30 *	11/10/04	2.68	5.62
		8.8	8.30 *	06/14/04	2.20	6.10
		8.8	8.30 *	03/02/04	1.70	6.60
		8.8	8.30 *	12/03/03	3.09	5.21
		8.8	8.30 *	09/15/03	3.84	4.46
		8.8	8.30 *	06/24/03	2.65	5.65
		8.8	8.30 *	04/08/03	2.52	5.78
		8.8	8.30 *	12/09/02	3.15	5.15
		8.8	8.30 *	07/11/02	4.56	3.74
Second	M012-B	10.9	10.61 *	03/06/07	2.90	7.71
		10.9	10.61 *	12/12/06	NM	NC
		10.9	10.61 *	09/25/06	4.40	6.21
		10.9	10.61 *	04/12/06	1.24	9.37
		10.9	10.61 *	08/22/05	4.15	6.46
		10.9	10.61 *	03/01/05	1.73	8.88
		10.9	10.61 *	11/10/04	3.99	6.62
		10.9	10.61 *	06/14/04	4.13	6.48
		10.9	10.61 *	03/02/04	1.78	8.83
		10.9	10.61 *	12/03/03	4.92	5.69
		10.9	10.61 *	09/15/03	5.29	5.32
		10.9	10.61 *	06/24/03	4.58	6.03
		10.9	10.61 *	04/08/03	3.70	6.91
		10.9	10.61 *	12/09/02	5.62	4.99
		10.9	10.61 *	07/10/02	5.61	5.00
Second	M013-C	10.7	10.24 *	03/06/07	3.70	6.54
		10.7	10.24 *	12/12/06	4.60	5.64
		10.7	10.24 *	09/25/06	4.95	5.29
		10.7	10.24 *	04/12/06	2.01	8.23
		10.7	10.24 *	08/22/05	5.13	5.11
		10.7	10.24 *	03/01/05	2.70	7.54

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M013-C	10.7	10.24 *	11/10/04	4.89	5.35
		10.7	10.24 *	06/14/04	5.00	5.24
		10.7	10.24 *	03/02/04	2.68	7.56
		10.7	10.24 *	12/03/03	5.20	5.04
		10.7	10.24 *	09/15/03	5.52	4.72
		10.7	10.24 *	06/24/03	4.91	5.33
		10.7	10.24 *	04/08/03	4.14	6.10
		10.7	10.24 *	12/12/02	5.50§	4.74
		10.7	10.24 *	07/10/02	5.21	5.03
Second	M014-B	10.7	10.23 *	03/06/07	4.42	5.81
		10.7	10.23 *	12/12/06	4.98	5.25
		10.7	10.23 *	09/25/06	5.31	4.92
		10.7	10.23 *	04/12/06	2.56	7.67
		10.7	10.23 *	08/22/05	5.34	4.89
		10.7	10.23 *	03/01/05	3.15	7.08
		10.7	10.23 *	11/10/04	4.90	5.33
		10.7	10.23 *	06/14/04	5.13	5.10
		10.7	10.23 *	03/02/04	2.95	7.28
		10.7	10.23 *	12/03/03	5.13	5.10
		10.7	10.23 *	09/15/03	5.37	4.86
		10.7	10.23 *	06/24/03	5.10	5.13
		10.7	10.23 *	04/08/03	4.63	5.60
		10.7	10.23 *	12/09/02	5.31	4.92
		10.7	10.23 *	07/10/02	5.55	4.68
Second	M016-B	12.4	12.34 *	03/12/07	10.06	2.28
		12.4	12.34 *	12/13/06	9.20	3.14
		12.4	12.34 *	09/27/06	8.02	4.32
		12.4	12.34 *	04/12/06	6.66	5.68
		12.4	12.34 *	08/22/05	10.25	2.09
		12.4	12.34 *	03/01/05	9.01	3.33
		12.4	12.34 *	11/10/04	6.62	5.72
		12.4	12.34 *	06/14/04	8.91	3.43
		12.4	12.34 *	03/02/04	7.95	4.39
		12.4	12.34 *	12/03/03	8.89	3.45
		12.4	12.34 *	09/15/03	7.80	4.54
		12.4	12.34 *	06/24/03	9.34	3.00
		12.4	12.34 *	04/08/03	8.96	3.38
		12.4	12.34 *	12/09/02	7.23	5.11
		12.4	12.34 *	09/13/02	8.27	4.07
		12.4	12.34 *	07/11/02	11.84	0.50
Second	M020-B	10.6	10.62 *	03/12/07	7.56	3.06
		10.6	10.62 *	12/13/06	6.36	4.26
		10.6	10.62 *	09/27/06	6.10	4.52
		10.6	10.62 *	04/12/06	5.41	5.21
		10.6	10.62 *	08/22/05	6.50	4.12
		10.6	10.62 *	03/01/05	6.03	4.59
		10.6	10.62 *	11/10/04	5.78	4.84

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M020-B	10.6	10.62 *	06/14/04	6.45	4.17
		10.6	10.62 *	03/02/04	5.73	4.89
		10.6	10.62 *	12/03/03	6.15	4.47
		10.6	10.62 *	09/15/03	6.26	4.36
		10.6	10.62 *	06/24/03	6.43	4.19
		10.6	10.62 *	04/08/03	6.78	3.84
		10.6	10.62 *	12/09/02	5.99	4.63
		10.6	10.62 *	09/13/02	6.49	4.13
		10.6	10.62 *	07/15/02	6.80	3.82
Second	M021-C	8.3	7.98 *	03/12/07	3.91	4.07
		8.3	7.98 *	12/13/06	4.01	3.97
		8.3	7.98 *	09/27/06	3.61	4.37
		8.3	7.98 *	04/12/06	2.97	5.01
		8.3	7.98 *	08/22/05	3.76	4.22
		8.3	7.98 *	03/01/05	3.36	4.62
		8.3	7.98 *	11/10/04	3.51	4.47
		8.3	7.98 *	06/14/04	4.02	3.96
		8.3	7.98 *	03/02/04	3.13	4.85
		8.3	7.98 *	12/03/03	3.77	4.21
		8.3	7.98 *	09/15/03	3.65	4.33
		8.3	7.98 *	06/24/03	3.57	4.41
		8.3	7.98 *	04/08/03	4.92	3.06
		8.3	7.98 *	12/09/02	3.55	4.43
		8.3	7.98 *	09/13/02	3.79	4.19
		8.3	7.98 *	07/11/02	4.06	3.92
Second	M023-B	8.3	8.42 *	03/12/07	4.31	4.11
		8.3	8.42 *	12/13/06	4.38	4.04
		8.3	8.42 *	09/27/06	3.94	4.48
		8.3	8.42 *	04/12/06	3.47	4.95
		8.3	8.42 *	08/22/05	4.15	4.27
		8.3	8.42 *	03/01/05	4.01	4.41
		8.3	8.42 *	11/10/04	3.52	4.90
		8.3	8.42 *	06/14/04	3.89	4.53
		8.3	8.42 *	03/02/04	3.52	4.90
		8.3	8.42 *	12/03/03	3.87	4.55
		8.3	8.42 *	09/15/03	4.02	4.40
		8.3	8.42 *	06/24/03	3.85	4.57
		8.3	8.42 *	04/08/03	4.65	3.77
		8.3	8.42 *	12/09/02	3.75	4.67
		8.3	8.42 *	09/13/02	4.23	4.19
		8.3	8.42 *	07/15/02	4.57	3.85
Second	M023-C	8.3	7.96 *	03/12/07	3.74	4.22
		8.3	7.96 *	12/13/06	3.64	4.32
		8.3	7.96 *	09/27/06	3.09	4.87
		8.3	7.96 *	04/12/06	2.72	5.24
		8.3	7.96 *	08/22/05	3.65	4.31
		8.3	7.96 *	03/01/05	3.44	4.52

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M023-C	8.3	7.96 *	11/10/04	2.72	5.24
		8.3	7.96 *	06/14/04	3.07	4.89
		8.3	7.96 *	03/02/04	2.71	5.25
		8.3	7.96 *	12/03/03	3.44	4.52
		8.3	7.96 *	09/15/03	3.52	4.44
		8.3	7.96 *	06/24/03	3.30	4.66
		8.3	7.96 *	04/08/03	4.10	3.86
		8.3	7.96 *	12/09/02	3.41	4.55
		8.3	7.96 *	09/13/02	3.77	4.19
		8.3	7.96 *	07/16/02	4.70	3.26
Second	M036-B	7.2	7.10 *	03/06/07	2.87	4.23
		7.2	7.10 *	12/12/06	2.91	4.19
		7.2	7.10 *	09/25/06	2.74	4.36
		7.2	7.10 *	04/12/06	2.52	4.58
		7.2	7.10 *	08/22/05	3.10	4.00
		7.2	7.10 *	03/01/05	2.62	4.48
		7.2	7.10 *	11/10/04	2.83	4.27
		7.2	7.10 *	06/14/04	2.80	4.30
		7.2	7.10 *	03/02/04	3.89	3.21
		7.2	7.10 *	12/03/03	3.14	3.96
		7.2	7.10 *	09/15/03	4.28	2.82
		7.2	7.10 *	06/24/03	2.77	4.33
		7.2	7.10 *	04/08/03	2.98	4.12
		7.2	7.10 *	12/10/02	3.05	4.05
		7.2	7.10 *	09/13/02	3.29	3.81
		7.2	7.10 *	07/09/02	3.10	4.00
Second	M037-B	10.8	10.67 *	03/06/07	5.24	5.43
		10.8	10.67 *	12/12/06	5.19	5.48
		10.8	10.67 *	09/25/06	5.70	4.97
		10.8	10.67 *	04/12/06	4.08	6.59
		10.8	10.67 *	08/22/05	5.70	4.97
		10.8	10.67 *	03/01/05	4.34	6.33
		10.8	10.67 *	11/10/04	5.53	5.14
		10.8	10.67 *	06/14/04	6.93	3.74
		10.8	10.67 *	03/02/04	7.50	3.17
		10.8	10.67 *	12/03/03	5.80	4.87
		10.8	10.67 *	09/15/03	6.03	4.64
		10.8	10.67 *	06/24/03	5.60	5.07
		10.8	10.67 *	04/08/03	5.36	5.31
		10.8	10.67 *	12/10/02	5.78	4.89
		10.8	10.67 *	09/13/02	6.21	4.46
		10.8	10.67 *	07/09/02	5.76	4.91
Second	M038-B	14.9	14.97 *	03/06/07	10.75	4.22
		14.9	14.97 *	12/12/06	10.95	4.02
		14.9	14.97 *	09/25/06	8.09	6.88
		14.9	14.97 *	04/12/06	9.28	5.69
		14.9	14.97 *	08/22/05	11.23	3.74

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M038-B	14.9	14.97 *	03/01/05	9.70	5.27
		14.9	14.97 *	11/10/04	10.85	4.12
		14.9	14.97 *	06/14/04	11.26	3.71
		14.9	14.97 *	03/02/04	9.70	5.27
		14.9	14.97 *	12/03/03	11.12	3.85
		14.9	14.97 *	09/15/03	10.21	4.76
		14.9	14.97 *	06/24/03	11.15	3.82
		14.9	14.97 *	04/08/03	10.84	4.13
		14.9	14.97 *	12/10/02	11.06	3.91
		14.9	14.97 *	09/13/02	11.44	3.53
		14.9	14.97 *	07/15/02	11.35	3.62
Second	M039-B	16.3	16.44 *	03/06/07	12.24	4.20
		16.3	16.44 *	12/12/06	12.28	4.16
		16.3	16.44 *	09/25/06	12.69	3.75
		16.3	16.44 *	04/12/06	10.56	5.88
		16.3	16.44 *	08/22/05	12.85	3.59
		16.3	16.44 *	03/01/05	11.16	5.28
		16.3	16.44 *	11/10/04	11.14	5.30
		16.3	16.44 *	06/14/04	12.70	3.74
		16.3	16.44 *	03/02/04	10.96	5.48
		16.3	16.44 *	12/03/03	12.41	4.03
		16.3	16.44 *	09/15/03	12.58	3.86
		16.3	16.44 *	06/24/03	12.60	3.84
		16.3	16.44 *	04/08/03	12.45	3.99
		16.3	16.44 *	12/10/02	12.47	3.97
		16.3	16.44 *	07/15/02	12.90	3.54
Second	M103-B	NA	10.76	03/06/07	2.41	8.35
		NA	10.76	12/12/06	NM	NC
		NA	10.76	09/25/06	3.20	7.56
		NA	10.76	04/12/06	1.48	9.28
Second	M105-B	NA	11.48	03/06/07	3.16	8.32
		NA	11.48	12/12/06	NM	NC
		NA	11.48	09/25/06	3.78	7.70
		NA	11.48	04/12/06	1.59	9.89

Table 8.1-2
Summary of Groundwater Level Measurements at
Operable Unit 4A - IR Site 2,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M108-B	NA	12.02	03/06/07	4.91	7.11
		NA	12.02	12/12/06	5.64	6.38
		NA	12.02	09/25/06	5.68	6.34
		NA	12.02	04/12/06	3.28	8.74

Notes:

BTOC = below top of casing

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 22.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.090 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	1.0
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	82.0	< 50.0	< 300	< 50.0	82.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	200	< 50.0	180 J	< 50.0	380	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	0.40 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.50 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 24.0 J	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 40.0 UJ	< 40.0 UJ	< 240 UJ	< 50.0	< 240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M010-A	2007 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M011-A	2007 01 (Spring)	34.0 J	< 50.0	< 300	< 48.0	34.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	0.60 J	< 2.5	< 2.5
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	0.50	< 0.50	0.20 J	1.0	0.50	< 0.50
		2005 01 (Spring)	990	56.0	590	< 50.0	1640	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J	< 0.50	< 0.50	0.60	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2004 04 (Winter)	1500	150	1100	< 50.0	2750	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	0.60	< 0.50	0.20 J	0.80	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	0.80	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0 UJ	< 1.0 UJ	0.59 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0	0.97 J	< 1.0	0.20 J	0.84	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	0.77	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	0.80	< 0.50	0.20 J	0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50 UJ	< 0.50	< 0.50	0.80	< 0.50	< 0.50	0.90	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	1.0	< 0.50	< 0.50
		2002 02 (Summer)	< 100 UJ	< 100 UJ	< 600 UJ	< 50.0	< 600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	0.80	< 0.50	< 0.50
	M012-A	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 15.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	44.0 J	< 50.0	< 300	< 50.0	44.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50
		2005 01 (Spring)	20.0 J	< 50.0	< 300	< 50.0	20.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M013-A	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 15.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	23.0 J	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 100 UJ	< 100 UJ	< 600 UJ	< 50.0	< 600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M014-A	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 35.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	14.0 J	< 50.0	< 300	< 50.0	14.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	51.0	51.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M014-A	2002 02 (Summer)	< 100 UJ	< 100 UJ	< 600 UJ	< 50.0	< 600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M016-A	2007 01 (Spring)	25.0 J	< 50.0	< 300	< 51.0	25.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.20	< 0.50	< 0.50	0.70	< 0.50	2.2	< 0.50	0.80	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	46.0 J	< 50.0	< 300	< 50.0	46.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	< 0.50	< 0.50	< 0.70	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	76.0	< 300	25.0 J	101	1.1	< 0.50	< 0.50	< 0.50	0.10 J	< 2.0	< 0.50	0.40 J	0.10 J	< 0.50	1.2	< 0.50	< 0.50	< 0.50	0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	56.0 J	20.0 J	76.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	1800	370	570	< 50.0	2740	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	1.3	< 0.50	< 0.50	< 0.50	0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	560	70.0	280 J	< 50.0	910	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J
		2004 01 (Spring)	100 J	< 280	< 190	< 50.0	100	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	0.53 J	< 1.0 UJ	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	1.6 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.40 J	< 0.50 UJ	0.30 J	< 0.50 UJ	< 0.50 UJ	0.20 J
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6 J	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M016-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.20 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	4300	880	1300	< 50.0	6480	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	860	110	370	< 50.0	1340	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50 J
		2004 01 (Spring)	160 J	< 280	< 190	< 50.0	160	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	1.9 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.30 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-E	2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50
	M017-A	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 34.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	55.0	< 300	< 50.0	55.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	39.0 J	< 50.0 UJ	< 300 UJ	< 50.0	39.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M018-A	2007 01 (Spring)	16.0 J	< 50.0	< 300	< 29.0	16.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	570	< 50.0	260 J	< 50.0	830	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	150	< 50.0	< 300	< 50.0	150	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-A	2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M018-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	780	66.0	160 J	< 50.0	1010	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M019-A	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 24.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	44.0 J	< 50.0	< 300	< 50.0	44.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	62.0	< 300	< 50.0	62.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50
		2005 01 (Spring)	220 J	< 50.0 UJ	260 J	< 50.0 UJ	480	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
	M019-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	24.0 J	24.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	8.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M019-E	2004 04 (Winter)	67.0	< 50.0	< 300	< 50.0	67.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M020-A	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	56.0	120 J	< 50.0	176	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	21.0 J	21.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	170 J	< 50.0 UJ	150 J	< 50.0 UJ	320	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	100	< 50.0	190 J	< 50.0	290	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 28.0 J	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
	M020-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50
		2005 01 (Spring)	130 J	< 50.0 UJ	< 300 UJ	< 50.0 UJ	130	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	240 J	< 50.0	< 300	< 50.0	240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	< 50.0	< 300	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-E	2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	100	< 50.0	100 J	< 50.0	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M021-A	2007 01 (Spring)	< 13.0	< 50.0	< 300	< 24.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	180 J	< 50.0 UJ	170 J	< 50.0 UJ	350	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	110	< 50.0	< 300	< 50.0	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
	M021-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	390 J	59.0 J	120 J	< 50.0 UJ	569	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	280	< 50.0	< 300	< 50.0	280	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-E	2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M022-A	2007 01 (Spring)	96.0	61.0	< 300	< 25.0	157	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.40 J	< 0.50	0.090 J	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	0.40 J	< 1.0	0.10 J	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2006 01 (Spring)	46.0 J	< 50.0	< 300	< 50.0	46.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.50	< 0.50	0.10 J	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	0.30 J	0.080 J	0.20 J	2.3 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	2500 J	340 J	490 J	< 50.0 UJ	3330	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	0.60 J	< 0.50 UJ	0.10 J	1.9 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	2500	170	3400	< 50.0 UJ	6070	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	0.20 J	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	0.30 J	< 1.0	< 1.0	1.5	< 1.0	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 01 (Spring)	220	< 290	190 J	< 50.0	410	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	0.29 J	< 1.0 UJ	< 1.0 UJ	1.5 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	110 J	< 280	140 J	< 50.0	250	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	0.29 J	< 1.0 UJ	< 1.0 UJ	2.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	210	< 280	< 190	< 50.0	210	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	320	< 280	110 J	< 50.0	430	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.29 J	< 1.0	< 1.0	2.1	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.40 J	< 0.50	0.10 J	2.3	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	36.0 J	36.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4 J	< 0.50	0.30 J	< 0.50	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M022-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	530 J	67.0 J	220 J	< 50.0 UJ	817	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	720	85.0	< 300	< 50.0	805	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	8.0 J	8.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	110 J	< 280	160 J	< 50.0	270	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-E	2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	100 J	< 280	< 190	< 50.0	100	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-A	2007 01 (Spring)	< 38.0	< 50.0	< 300	< 28.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	23.0 J	< 50.0	< 300	< 50.0	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	820 J	< 50.0 UJ	510 J	< 50.0 UJ	1330	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	0.40 J	< 0.50 UJ	< 0.50 UJ	0.90 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	650	56.0	300	< 50.0	1010	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.10 J	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	110 J	< 290	140 J	< 50.0	250	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.30 J	< 1.0	< 1.0	0.98 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	0.32 J	< 1.0 UJ	< 1.0 UJ	0.94 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 03 (Fall)	250	< 290	250	< 50.0	500	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	0.40 J	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 02 (Summer)	110 J	< 280	< 190	< 50.0	110	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.26 J	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	36.0 J	36.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.50	< 0.50	< 0.50	0.80	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	28.0 J	28.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	0.60	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	2.6	< 0.50	< 0.50	2.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	1300 J	240 J	290 J	< 50.0 UJ	1830	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	1700	280	220 J	< 50.0	2200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-E	2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 310	< 200	< 50.0	< 310	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.70 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M024-A	2007 01 (Spring)	640	580	< 300	380	1600	8.3	0.40 J	< 1.0	< 1.0	0.50 J	< 1.0	< 1.0	230	0.40 J	2.6	10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2006 03 (Fall)	190	260	< 300	560	1010	8.8	0.40 J	0.20 J	0.40 J	0.50	0.90 J	< 0.50	180	0.40 J	2.7	9.3	< 0.50	< 0.50	< 0.50	0.080 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	200	< 300	480	680	13.0	< 3.1	< 3.1	< 3.1	< 3.1	< 13.0	< 3.1	320	< 3.1	2.7 J	14.0	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
		2005 02 (Summer)	190	300	< 300	410	900	14.0	0.30 J	< 1.7	< 1.7	0.50 J	< 6.7	< 1.7	180	< 1.7	2.8	8.6	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2005 01 (Spring)	6900 J	1700 J	4300 J	600 J	13500	13.0 J	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 8.0 UJ	< 2.0 UJ	410 J	< 2.0 UJ	2.4 J	20.0 J	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ
		2004 04 (Winter)	4900	970	5200	370	11400	8.1	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	< 1.7	270	0.40 J	2.0	11.0	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	70.0	140	< 300	470	680	20.0	0.10 J	0.20 J	0.30 J	0.50	0.10 J	< 0.50	180	0.40 J	2.6	11.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	660	340	98.0 J	590	1690	19.0	0.39 J	< 1.0	< 1.0	0.57 J	< 2.0	< 5.0	260	0.54 J	2.9	16.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	190	< 290	< 190	540	730	4.9 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	1.1 J	< 5.0 UJ	390 J	0.45 J	2.1 J	13.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 03 (Fall)	210	230 J	< 200	520	960	10.0	0.29 J	< 1.0	< 1.0	0.32 J	1.6 J	< 5.0	250 J	0.43 J	2.7	12.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 0.50	< 1.0	0.62
		2003 02 (Summer)	630	250 J	< 190	540	1420	17.0	0.37 J	< 1.0	< 1.0	0.55 J	1.8 J	< 5.0	220	0.39 J	2.2	10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	77.0 J	120 J	< 300 UJ	< 470 UJ	197	14.0 J	0.40 J	0.20 J	0.30 J	0.40 J	0.60 J	< 0.50 UJ	210 J	< 0.50 UJ	2.1 J	12.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.30 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.10 J
		2002 04 (Winter)	110	160	< 300	740	1010	17.0	< 1.0	< 1.0	< 1.0	0.60 J	2.1 J	< 1.0	370	0.90 J	2.1	24.0	< 1.0	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 03 (Fall)	29.0 J	< 50.0	< 300	450	479	12.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	290	< 1.0	1.6	9.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	76.0 J	87.0 J	< 300 UJ	450	613	15.0	0.40 J	0.20 J	< 0.50	0.40 J	0.70 J	< 0.70	230	0.40 J	2.1	8.9	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M024-E	2007 01 (Spring)	17.0 J	< 50.0	< 300	< 43.0	17.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	32.0	0.080 J	< 0.10	0.90	< 0.50	< 0.50	< 0.50	1.0	0.20 J	< 0.50	0.20 J	< 0.50	0.30 J
		2006 03 (Fall)	40.0 J	< 50.0	< 300	< 90.0	40.0	0.30 J	0.070 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	48.0	< 0.50	0.10 J	1.1	< 0.50	< 0.50	< 0.50	0.70	0.090 J	< 0.50	0.20 J	< 0.50	0.40 J
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	64.0	0.10 J	0.10 J	1.3	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	0.20 J	< 0.50	0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	74.0	74.0	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	65.0	< 0.50	0.20 J	1.4	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	0.20 J	< 0.50	0.50
		2005 01 (Spring)	840 J	99.0 J	460 J	92.0 J	1490	0.70 J	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	60.0 J	< 0.50 UJ	0.20 J	1.6 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.90 J	< 0.50 UJ	< 0.50 UJ	0.20 J	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	1400	200	390	130	2120	1.3	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	89.0	0.20 J	0.30 J	1.7	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2004 02 (Summer)	< 50.0	< 50.0	< 300	96.0	96.0	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	62.0	0.10 J	0.20 J	1.3	< 0.50	0.40 J	< 0.50	0.80	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J
		2004 01 (Spring)	< 190	< 290	< 190	55.0	55.0	0.70	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	37.0	< 1.0	< 1.0	0.98 J	< 1.0	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	< 0.50	< 1.0	0.44 J
		2003 04 (Winter)	< 190	< 280	< 190	52.0	52.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	31.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	0.56 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	130 J	< 290	110 J	56.0	296	0.61	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	41.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	0.83 J	< 1.0	< 1.0	< 0.50	< 1.0	0.53
		2003 02 (Summer)	< 190	< 290	< 190	64.0	64.0	0.62	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	43.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	0.83 J	< 1.0	< 1.0	< 0.50	< 1.0	0.59
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 97.0 UJ	< 300	1.1 J	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	52.0 J	< 0.50 UJ	0.20 J	1.4 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.70 J	< 0.50 UJ	< 0.50 UJ	0.20 J	< 0.50 UJ	0.40 J
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 71.0	< 300	0.60	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	39.0	< 0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.30 J	< 0.50	0.70
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 63.0	< 300	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	40.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0	0.60 J
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	61.0	61.0	0.90	0.30 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	43.0	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	0.70
	M036-A	2007 01 (Spring)	120	120	< 300	100	340	0.60	0.40 J	0.090 J	< 0.50	0.20 J	< 0.30	< 0.50	52.0	0.70	< 0.30	12.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 130	140	< 300	220	360	0.90	0.40 J	0.090 J	0.20 J	0.30 J	< 2.0	< 0.50	51.0	0.70	< 0.50	12.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	220	170	180 J	160	730	1.9	0.40 J	0.10 J	0.20 J	0.40 J	< 2.0	< 0.50	76.0	0.60	0.30 J	14.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	74.0	82.0	100 J	140	396	1.6	0.50	0.10 J	0.20 J	0.40 J	< 2.0	< 0.50	59.0	0.80	0.30 J	13.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	5400	1000	4000	190	10600	1.3	0.50	0.10 J	0.30 J	0.40 J	1.0 J	< 0.50	62.0	0.70	0.40 J	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	5300	1300	1700	110	8410	1.4	0.70	0.20 J	0.20 J	0.30 J	< 2.0	< 0.50	49.0	0.60	0.20 J	11.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	76.0	76.0	< 300	160	312	1.5	0.30 J	0.10 J	< 0.50	0.30 J	< 2.0	< 0.50	50.0	0.70	0.30 J	9.9	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	750	< 290	240	170	1160	1.2	0.54 J	< 1.0	< 1.0	0.35 J	1.5 J	< 5.0	48.0	0.62 J	0.25 J	10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	180 J	< 280	< 190	150	330	1.6 J	0.78 J	< 1.0 UJ	< 1.0 UJ	0.37 J	0.74 J	< 5.0	44.0 J	0.84 J	0.30 J	12.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	680	< 280	140 J	160	980	0.94 J	0.62 J	< 1.0 UJ	< 1.0 UJ	0.53 J	< 2.0	< 5.0	40.0 J	0.78 J	0.36 J	11.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	5100	250 J	4600	150	10100	2.6	0.69 J	< 1.0	< 1.0	0.42 J	< 2.0	< 5.0	44.0	0.58 J	0.21 J	9.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	59.0 J	59.0 J	< 300 UJ	140 J	258	0.80 J	0.60 J	< 0.50 UJ	< 0.50 UJ	0.60 J	0.60 J	< 0.50 UJ	39.0 J	0.60 J	0.30 J	9.7 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	200	110	77.0 J	160	547	2.3	0.60	< 0.50	< 0.50	0.40 J	1.5 J	< 0.50	59.0	0.70	0.30 J	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	48.0 J	56.0	< 300	130	234	3.1	0.60	< 0.50	< 0.50	0.30 J	< 2.0	< 0.50	58.0	0.70	< 0.50	11.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	50.0 J	60.0 J	< 300 UJ	160	270	1.4	0.50 J	< 0.50	< 0.50	0.40 J	0.30 J	< 0.50	42.0	0.70	0.30 J	11.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M036-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	2900	600	900	32.0 J	4430	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	3100	540	540	< 50.0	4180	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-E	2004 02 (Summer)	< 50.0	< 50.0	< 300	23.0 J	23.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	310	< 280	< 190	< 50.0	310	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M037-A	2007 01 (Spring)	400	260	< 300	260	920	16.0	< 1.0	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	110	< 1.0	< 1.0	9.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2006 03 (Fall)	430	330	200 J	420	1380	37.0	0.30 J	0.40 J	0.50	0.30 J	3.1	< 0.50	200	0.20 J	0.30 J	13.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	130	78.0	230 J	250	688	24.0	0.30 J	0.20 J	0.40 J	< 1.0	2.4 J	< 1.0	170	0.20 J	0.20 J	11.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	38.0 J	< 50.0 UJ	< 300	240	278	36.0	0.40 J	0.30 J	0.60	0.30 J	3.4	< 0.50	190	0.10 J	0.20 J	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	3100	920	980	290	5290	20.0	0.30 J	0.20 J	0.50 J	< 0.80	0.90 J	< 0.80	130	< 0.80	< 0.80	8.6	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 04 (Winter)	8400	1900	2400	290	13000	24.0	0.30 J	0.20 J	< 1.3	< 1.3	< 5.0	< 1.3	160	< 1.3	< 1.3	9.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 02 (Summer)	41.0 J	< 50.0	< 300	160	201	12.0	< 0.50	0.10 J	0.30 J	0.10 J	0.40 J	< 0.50	87.0	< 0.50	< 0.50	5.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	1100	230 J	230	230	1790	19.0	0.27 J	< 1.0	0.51 J	< 1.0	2.7	< 5.0	130	< 1.0	< 1.0	9.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	340	< 280	< 190	350	690	47.0 J	1.5 J	0.56 J	1.3 J	0.64 J	7.0 J	0.52 J	280 J	< 1.0 UJ	0.34 J	18.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	1400	230 J	310	370	2310	20.0 J	0.23 J	< 1.0 UJ	0.85 J	0.55 J	6.3 J	< 5.0 UJ	170 J	0.21 J	0.28 J	14.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 02 (Summer)	7900	240 J	6800	280	15200	24.0	0.21 J	0.27 J	0.69 J	0.36 J	5.3	< 5.0	200	< 1.0	0.20 J	12.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	220 J	220	20.0 J	0.30 J	0.20 J	0.60 J	0.50 J	3.7 J	< 0.50 UJ	140 J	0.10 J	< 0.50 UJ	11.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	470	140	180 J	250	1040	0.30 J	< 0.50 UJ	< 0.20 J	0.50 J	0.30 J	4.3	< 0.50	2.6 J	< 0.50 UJ	< 0.20 J	12.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	60.0	58.0	< 300	280	398	27.0	0.40 J	0.40 J	0.90	0.40 J	7.2	0.30 J	170	< 0.50	< 0.50	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	60.0 J	< 50.0 UJ	< 300 UJ	200	260	12.0	< 0.50	< 0.20 J	0.40 J	< 0.50	3.4	< 0.50	83.0	< 0.50	< 0.50	7.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M037-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	980	120	490	< 50.0	1590	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	770	120	200 J	< 50.0	1090	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-E	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	680	< 280	600	< 50.0	1280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	25.0 J	< 50.0	< 300	< 50.0	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M038-A	2007 01 (Spring)	160	110	< 300	< 46.0	270	3.0	0.20 J	< 0.50	0.20 J	0.30 J	< 2.0 UJ	< 0.50	1.9	0.30 J	< 0.50	13.0	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	290	140	660	92.0	1180	7.7	0.50	0.10 J	0.30 J	0.50	0.60 J	< 0.50	1.6	0.20 J	< 0.50	9.2	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	110	650	< 50.0	760	4.2	0.10 J	< 0.50	< 0.50	0.30 J	< 2.0	< 0.50	1.7	0.30 J	< 0.50	12.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	23.0 J	< 50.0	140 J	< 50.0	163	4.6	0.20 J	0.80	0.40 J	0.90	< 2.0	< 0.50	0.80	< 0.50	< 0.50	8.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	2500	590	860	66.0	4020	4.8	0.20 J	< 0.50	< 0.50	0.30 J	< 2.0	< 0.50	1.9	0.50	< 0.50	13.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	6400	1600	1300	< 50.0	9300	6.8	0.30 J	0.30 J	0.30 J	0.80	< 2.0	< 0.50	3.6	< 0.50	< 0.50	20.0	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 56.0	< 300	3.2	< 0.50	1.4	0.50 J	1.2	2.0 J	< 0.50	1.2	0.20 J	< 0.50	4.8	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	400	220 J	330	80.0	1030	6.5 J	0.21 J	0.32 J	0.44 J	0.81 J	< 2.0	< 5.0	3.6 J	0.40 J	< 1.0 UJ	18.0 J	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	150 J	< 290	140 J	63.0	353	5.7	0.51 J	0.51 J	0.90 J	1.5	2.5	< 5.0	3.2	0.26 J	< 1.0	13.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	2600	220 J	1100	23.0 J	3940	2.3	0.53 J	0.82 J	1.5	1.1	1.5 J	< 5.0	0.50 J	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	610	< 280	130 J	60.0 J	800	3.3 J	0.34 J	2.1 J	0.40 J	1.7 J	4.4 J	< 5.0 UJ	1.2 J	< 1.0 UJ	< 1.0 UJ	4.4 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 94.0 UJ	< 300	7.0 J	0.20 J	0.20 J	0.20 J	0.80 J	1.0 J	< 0.50 UJ	3.2 J	0.30 J	< 0.50 UJ	13.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.40 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	350	96.0	230 J	150	826	6.0	0.30 J	< 0.20 J	< 0.50	1.2	2.4	< 0.50	4.8	0.60	< 0.50	22.0	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 76.0	< 300	3.6	0.60 J	1.9	0.80 J	1.1	2.8 J	< 1.0	1.1	< 1.0	< 1.0	4.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	70.0	70.0	2.9	0.80	2.5	1.0	1.5	3.4	< 0.50	0.90	< 0.50	< 0.50	3.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M038-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	540	< 50.0	540	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	700	190	770	< 50.0	1660	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1500	310	390	< 50.0	2200	< 0.50	< 0.50	0.090 J	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	140 J	< 300	120 J	< 50.0	260	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	0.10 J	< 0.50 UJ	< 0.50 UJ	0.40 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.10 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	93.0	< 50.0	< 300	< 50.0	93.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 J	1.1 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M039-A	2007 01 (Spring)	860	610	160 J	90.0	1720	4.7	0.60	0.60	1.0	0.80	40.0	0.050 J	7.9	0.50	< 0.50	8.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	220	230	160 J	160	770	0.90	0.50	0.30 J	0.70	0.90	27.0	< 0.50	9.5	0.60	0.20 J	9.3	< 0.50	< 0.50	< 0.50	0.090 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	370	490	160 J	150	1170	4.5	1.0	1.8	1.8	2.5	86.0	< 0.50	14.0	1.0	0.40 J	19.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	280	470	58.0 J	160	968	2.1	1.3	5.2	8.4	5.3	190	< 1.0	7.4	0.50 J	0.30 J	9.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 01 (Spring)	6600	2800	2100	270	11800	5.7	1.5	7.0	9.4	5.5	130	< 0.50	18.0	1.0	0.30 J	18.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J
		2004 04 (Winter)	8900	1800	8800	110	19600	1.9	0.70	2.0	2.7	1.9	99.0	< 0.50	5.8	0.40 J	0.10 J	5.7	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	120	270	< 300	180	570	1.3 J	0.80 J	3.8	5.2	2.2	260	< 1.7	6.0	< 1.7	< 1.7	7.1	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7 J	< 1.7
		2004 01 (Spring)	1100	250 J	170 J	580	2100	3.4	1.1	4.4	6.7	4.2	290	< 5.0	7.0	0.64 J	0.50 J	11.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	620	< 290	< 190	510	1130	2.0	1.6	6.0	8.3	5.1	200	< 5.0	8.8	0.63 J	< 1.0	9.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	1300	260 J	270	330	2160	2.1 J	1.1 J	3.0 J	4.4 J	3.0 J	120	< 5.0	7.1 J	0.53 J	< 1.0 UJ	7.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	6900	440	5000	510	12900	1.6	1.1	5.0	7.5	4.1	210	< 5.0	6.8	0.42 J	< 1.0	7.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	48.0 J	100 J	< 300 UJ	160 J	308	2.3 J	1.1 J	5.2 J	8.1 J	4.0 J	260 J	< 0.50 UJ	5.7 J	0.40 J	< 0.50 UJ	7.3 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.20 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	83.0	160	< 300	190	433	5.6	1.0	3.4	6.2	3.2	150	< 0.50	5.8	0.80	< 0.20 J	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	56.0	78.0	< 300	< 98.0	134	2.0	0.80	1.5	2.3	1.4	23.0	0.30 J	6.8	0.40 J	< 0.50	6.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	37.0 J	< 40.0 UJ	< 240 UJ	110	147	2.3	0.80	< 0.50	< 0.50	0.80	0.30 J	< 0.50	6.3	0.40 J	< 0.50	5.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	M010-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 17.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	57.0	160 J	< 50.0	217	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M010-B	2005 02 (Summer)	< 50.0	< 50.0	90.0 J	21.0 J	111	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50
		2004 04 (Winter)	73.0	< 50.0	< 300	< 50.0	73.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M012-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 19.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	37.0 J	< 50.0	< 300	-	37.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M013-C	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	44.0 J	< 50.0	< 300	< 50.0	44.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M014-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 39.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	81.0 J	< 50.0	81.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	51.0	3200	< 300	< 50.0	3250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	130 J	< 50.0	130	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M016-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 37.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.0	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	66.0	< 300	< 50.0	66.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.10 J	0.40 J	0.10 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M020-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	58.0	< 50.0	91.0 J	< 50.0	149	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M020-B	2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M021-C	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 22.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	150	< 50.0	< 300	< 50.0	150	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 29.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	0.50 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	120	< 50.0	< 300	< 50.0	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	12.0 J	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	32.0 J	32.0	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-C	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 23.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMU	M023-C	2004 04 (Winter)	140	< 50.0	< 300	< 50.0	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	25.0 J	25.0	< 0.50 UJ	0.50 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M036-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	600	< 50.0	450	< 50.0 UJ	1050	< 0.50	0.10 J	0.060 J	< 0.50	< 0.50	< 2.0 UJ	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	360	< 280	560	< 50.0	920	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M037-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 18.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	56.0	< 50.0	< 300	< 50.0	56.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	2.1	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M038-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 12.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.090	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWQZ	M038-B	2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	130 J	< 50.0	130	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M039-B	2007 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	11.0 J	< 9.8	< 9.8	< 9.8	1.5 J	< 9.8	< 9.8
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	57.0	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	15.0	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
	M011-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	0.60 J	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	20.0 J	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	11.0 J	< 9.7	< 9.7	< 9.7	2.0 J	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	1.3 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	14.0 J	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M011-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 20.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 20.0 UJ	< 10.0 UJ	< 20.0 UJ	< 10.0 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	12.0 J	< 9.4

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M012-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	13.0 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	13.0 J	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
	M013-A	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	2.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	1.2 J	< 9.4	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M012-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M013-A	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M014-A	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	1.7 J	< 9.5	< 9.5	< 9.5	2.8 J	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	2.1 J	< 9.5	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	4.2 J	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M016-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	0.70 J	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	2.3 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	1.1 J	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	19.0 J	< 9.5	< 9.5	< 9.5	4.3 J	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M014-A	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M016-A	2007 01 (Spring)	< 9.4	< 9.4	0.54 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	0.94 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	2.3 J	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	2.3 J	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	1.2 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	0.93 J	< 19.0	< 9.4	5.8 J	< 9.4	< 9.4	< 9.4	0.85 J	< 19.0	< 9.4	5.4 J	< 9.4

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	6.8 J	< 9.4	< 9.4
	M016-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	7.9 J	< 9.5	< 9.5 J	< 9.5	7.2 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M017-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	0.59 J	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	13.0	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0 UJ	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M016-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 20.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M017-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	3.1 J	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M017-A	2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M018-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0 J	< 13.0 J	< 13.0	< 13.0	< 13.0 J	< 13.0	< 13.0	< 13.0	< 63.0 J	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	13.0 J	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M018-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M019-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	1.3 J	< 9.5	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	19.0 J	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M017-A	2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M018-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 13.0	< 13.0	< 13.0	< 25.0 J	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 25.0 J	< 13.0	< 25.0	< 13.0
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M018-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	3.2 J	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M019-A	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M019-A	2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	-	< 9.6 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
	M019-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	5.7 J	< 9.5	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M020-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 13.4 UJ	< 9.6 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M019-A	2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	-	< 9.6 UJ	< 9.6 UJ	-	-	< 19.0 UJ	< 9.6 UJ	-	< 9.6 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
	M019-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
	M020-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	12.0	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
	M020-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	8.7 J	< 9.7	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	5.7 J	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M021-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	0.58 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 49.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	3.8 J	< 9.6	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 19.0	< 9.7	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
	M020-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	3.4 J	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5 UJ
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 20.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M021-A	2007 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7 UJ
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-A	2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	13.0	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
	M021-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9 UJ	< 20.0	< 9.9	< 9.9
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	9.6	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M022-A	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	18.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	20.0 J	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8 UJ	< 20.0	< 9.8	< 9.8
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-A	2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
	M021-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9 UJ
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M022-A	2007 01 (Spring)	< 9.4	< 9.4	1.4 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	1.5 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	1.9 J	< 19.0	< 9.5	< 9.5	3.4 J	< 9.5	< 9.5	< 9.5	< 19.0	0.79 J	< 19.0	0.70 J
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	1.4 J	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.8	< 9.8	1.4 J	< 20.0	0.37 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	0.34 J
		2004 02 (Summer)	< 9.5	< 9.5	1.2 J	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8 UJ
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.8	< 9.8	-	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	1.1 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-A	2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M022-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	19.0 J	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	5.9 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
	M023-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	0.87 J	< 9.5	< 9.5
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	19.0 J	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	320	< 9.9	< 9.9
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M023-E	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	18.0	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-A	2002 03 (Fall)	< 9.4	< 9.4	1.6 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	1.3 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M022-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M023-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	0.57 J	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	4.7 J	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	0.89 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	1.2 J	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
	M023-E	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-E	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 13.2 UJ	< 9.4 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 49.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	0.51 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	19.0 J	< 9.4	< 9.4	< 9.4	8.8 J	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0
		2003 01 (Spring)	0.65 J	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
	M024-A	2007 01 (Spring)	2.6 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	0.87 J	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	1.6 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.1 J	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	1.4 J	< 9.4
		2005 02 (Summer)	3.1 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	1.4 J	< 9.5 UJ	0.75 J	0.56 J	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	1.9 J	< 9.5	1.0 J
		2005 01 (Spring)	1.3 J	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	1.3 J	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	7.4 J	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7	1.5 J	< 9.7 UJ	0.39 J	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	1.6 J	1.1 J	1.8 J
		2004 02 (Summer)	1.9 J	< 9.8	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	0.88 J	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 J	< 9.8	< 9.8 J	< 9.8 J	< 9.8	< 9.8	< 9.8
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	7.7 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 03 (Fall)	5.2 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 38.0	< 38.0	< 76.0	< 38.0	< 38.0
		2003 01 (Spring)	4.6 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.4 J	< 9.4	1.4 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	2.2 J
		2002 04 (Winter)	1.8 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	12.0	< 9.7	< 9.7
		2002 03 (Fall)	10.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 50.0 UJ	< 9.9	< 9.9	< 9.9	11.0	< 9.9	3.0 J
		2002 02 (Summer)	4.8 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-E	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	1.7 J	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	3.9 J	< 9.6
	M024-A	2007 01 (Spring)	< 9.4	1.6 J	6.3 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	2.0 J
		2006 01 (Spring)	< 9.4	1.8 J	9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	2.6 J
		2005 02 (Summer)	< 9.5	2.0 J	7.0 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	3.6 J
		2005 01 (Spring)	0.58 J	1.7 J	14.0 J	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	2.7 J
		2004 04 (Winter)	< 9.7	1.6 J	7.4 J	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	1.4 J
		2004 02 (Summer)	< 9.8	1.3 J	5.2 J	< 20.0 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0 J	< 9.8	< 20.0 J	1.9 J
		2004 01 (Spring)	< 9.5	< 9.5	8.3 J	< 19.0	< 9.5	< 9.5	< 9.5	5.1 J	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	6.6 J	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	5.6 J	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 76.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 190	< 38.0
		2003 01 (Spring)	< 9.4	< 9.4	5.4 J	< 19.0	3.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	6.4 J
		2002 04 (Winter)	< 9.7	0.91 J	10.0	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 03 (Fall)	< 9.9	1.1 J	6.6 J	< 20.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 02 (Summer)	< 9.8	1.2 J	5.2 J	< 20.0	< 9.8	< 9.8	< 9.8	2.8 J	< 9.8	< 9.8	< 20.0	< 9.8	11.0 J	1.5 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2007 01 (Spring)	1.4 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2006 01 (Spring)	1.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	2.5 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	2.5 J	< 9.6	< 9.6
		2005 01 (Spring)	2.4 J	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	20.0 J	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	1.5 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 01 (Spring)	1.3 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	3.0 J	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 02 (Summer)	0.50 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M036-A	2007 01 (Spring)	9.6	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.1 J	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	3.2 J
		2006 01 (Spring)	16.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	4.8 J	< 9.5	1.5 J	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	5.7 J
		2005 02 (Summer)	10.0	0.29 J	< 9.5	< 9.5	< 9.5	< 9.5	0.23 J	3.2 J	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	1.5 J	< 9.5	4.0 J
		2005 01 (Spring)	11.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	3.2 J	< 9.5 UJ	0.87 J	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	4.3 J
		2004 04 (Winter)	8.6 J	0.29 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	3.0 J	< 9.8	< 9.8	< 9.8	< 9.8	20.0 J	< 9.8	< 9.8	< 9.8	1.3 J	< 9.8	3.7 J
		2004 02 (Summer)	8.3 J	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	2.8 J	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	7.0 J	< 9.5	3.7 J
		2004 01 (Spring)	10.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	7.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	9.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	10.0 J	< 9.4	< 9.4
		2003 02 (Summer)	13.0 J	< 19.0	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0	< 19.0	< 19.0 UJ	< 19.0	< 19.0	< 19.0 UJ	< 95.0	< 19.0	< 19.0	< 19.0	< 38.0 UJ	< 19.0	< 19.0
		2003 01 (Spring)	9.8 J	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	4.3 J	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	4.5 J
		2002 04 (Winter)	10.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	2.1 J	< 9.4	0.63 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	3.5 J
		2002 03 (Fall)	7.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	1.8 J	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	2.9 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2007 01 (Spring)	< 9.9	< 9.9	0.68 J	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2006 01 (Spring)	< 9.4	< 9.4	0.70 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	1.0 J	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	0.72 J	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	5.5 J
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	0.74 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M036-A	2007 01 (Spring)	< 9.4	< 9.4	9.0 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	1.1 J
		2006 01 (Spring)	< 9.5	< 9.5	8.8 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	1.5 J
		2005 02 (Summer)	< 9.5	< 9.5	7.9 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	1.7 J
		2005 01 (Spring)	< 9.5	< 9.5	8.9 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	1.5 J
		2004 04 (Winter)	0.51 J	< 9.8	6.7 J	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	0.73 J
		2004 02 (Summer)	< 9.5	< 9.5	6.7 J	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	1.2 J
		2004 01 (Spring)	< 9.5	< 9.5	5.7 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	5.5 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	6.2 J	< 19.0	< 9.4	< 9.4	< 9.4	5.6 J	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 19.0	< 19.0	< 19.0	< 38.0 UJ	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 95.0	< 19.0	< 95.0	< 19.0
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	6.8 J	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	2.4 J	1.1 J
		2002 04 (Winter)	< 9.4	< 9.4	7.2 J	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	1.5 J
		2002 03 (Fall)	< 9.4	< 9.4	7.7 J	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	1.8 J

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-A	2002 02 (Summer)	7.4 J	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	2.8 J	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	3.2 J
	M036-E	2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 13.2 UJ	< 9.4 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	5.9 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	3.6 J	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 49.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ
	M037-A	2007 01 (Spring)	1.8 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	1.3 J	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	2.2 J	0.46 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.8 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	2.4 J	0.48 J	< 9.4	< 9.4	< 9.4	< 9.4	0.52 J	< 9.4	< 9.4	2.4 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	2.2 J	< 9.9	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9	< 9.9	< 9.9 UJ	2.2 J	< 9.9	< 9.9	< 50.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2004 04 (Winter)	2.4 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	3.8 J	< 9.9	< 9.9	11.0 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	2.3 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	2.0 J	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	5.3 J	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	5.0 J	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 38.0	< 38.0	< 76.0	< 38.0	< 38.0
		2003 01 (Spring)	2.4 J	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	4.8 J	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2002 04 (Winter)	2.3 J	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	0.76 J	< 9.4	< 9.4 UJ	3.7 J	0.96 J	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	2.7 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	5.1 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	2.4 J	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	0.84 J	< 9.4 UJ	< 9.4 UJ	3.2 J	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-A	2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	5.3 J	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	0.99 J
	M036-E	2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ
	M037-A	2007 01 (Spring)	< 9.5	< 9.5	8.1 J	< 19.0	< 9.5	< 9.5	< 9.5	3.3 J	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	1.6 J
		2006 01 (Spring)	< 9.4	< 9.4	7.4 J	< 19.0	< 9.4	< 9.4	< 9.4	1.0 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	1.9 J
		2005 02 (Summer)	< 9.4	< 9.4	8.9 J	< 19.0	< 9.4	< 9.4	< 9.4	4.2 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	3.1 J
		2005 01 (Spring)	< 9.9	< 9.9	8.8 J	< 20.0	< 9.9	< 9.9	< 9.9	4.0 J	< 9.9	< 9.9	-	< 9.9	< 20.0	2.3 J
		2004 04 (Winter)	< 9.9	< 9.9	9.9	< 20.0	< 9.9	< 9.9	< 9.9	5.4 J	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	2.6 J
		2004 02 (Summer)	< 9.6	< 9.6	8.0 J	< 19.0	< 9.6	< 9.6	< 9.6	2.0 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	2.6 J
		2004 01 (Spring)	< 9.6	< 9.6	7.4 J	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.5	< 9.5	9.0 J	< 19.0	< 9.5	< 9.5	< 9.5	8.8 J	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	5.2 J
		2003 03 (Fall)	< 9.6	< 9.6	7.4 J	< 19.0	< 9.6	< 9.6	< 9.6	5.7 J	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 76.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 190	< 38.0
		2003 01 (Spring)	< 9.6 UJ	< 9.6 UJ	9.3 J	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	3.2 J	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	3.0 J
		2002 04 (Winter)	< 9.4	< 9.4	7.0 J	< 19.0	< 9.4	< 9.4	< 9.4	4.7 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	2.5 J
		2002 03 (Fall)	< 9.4	< 9.4	6.7 J	< 19.0 UJ	< 9.4	< 9.4	< 9.4	3.3 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	3.7 J
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	5.4 J	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	1.4 J	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	2.8 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 UJ	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	11.0 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7 J	< 9.7	< 9.7	< 9.7 J	< 9.7	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7	< 9.7
		2004 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	5.3 J	< 9.4 UJ	< 9.4 UJ
	M038-A	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	1.4 J	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	1.0 J	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	0.88 J	< 9.5	< 9.5	< 9.5	11.0	< 9.5	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	1.2 J	< 9.8	< 9.8	12.0 J	< 9.8	< 9.8	< 9.8	1.4 J	< 9.8	< 9.8
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7 J	< 9.7	< 9.7	< 9.7 J	0.61 J	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	6.1 J	< 9.7	< 9.7
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 38.0	< 38.0	< 75.0	< 38.0	< 38.0
		2003 01 (Spring)	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 56.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	1.5 J	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M038-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs													
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	-	< 9.8	< 20.0	< 9.8
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 J	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 J	< 9.7
		2004 01 (Spring)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
	M038-A	2007 01 (Spring)	< 9.6	< 9.6	5.9 J	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	7.8 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	3.0 J	< 19.0	< 9.6	< 9.6	< 9.6	0.59 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	8.9 J	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	18.0	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.7	< 9.7	4.2 J	< 19.0 J	< 9.7	2.1 J	< 9.7	< 9.7	1.4 J	5.7 J	< 19.0 J	< 9.7	12.0 J	< 9.7
		2004 01 (Spring)	< 9.9	< 9.9	8.7 J	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	6.8 J	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 75.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 190	< 38.0
		2003 01 (Spring)	< 11.0 UJ	< 11.0 UJ	15.0 J	< 22.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 22.0 UJ	< 11.0 UJ	< 22.0 UJ	< 11.0 UJ
		2002 04 (Winter)	< 9.4	< 9.4	16.0	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M038-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 01 (Spring)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 49.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	4.7 J	< 9.8 UJ	< 9.8 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
	M039-A	2007 01 (Spring)	11.0 J	< 49.0	< 49.0	< 49.0	< 49.0	< 49.0	< 49.0	4.4 J	< 49.0	10.0 J	< 49.0	< 49.0	< 240	< 49.0	< 49.0	< 49.0	< 49.0	< 49.0	5.0 J
		2006 01 (Spring)	16.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	0.24 J	6.4 J	< 9.7	45.0	0.93 J	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	7.2 J
		2005 02 (Summer)	12.0	0.37 J	< 9.6	< 9.6	< 9.6	< 9.6	0.41 J	4.8 J	< 9.6	73.0	0.79 J	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	1.1 J	< 9.6	5.1 J
		2005 01 (Spring)	12.0 J	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	4.1 J	< 9.7 UJ	73.0 J	1.4 J	< 9.7 UJ	< 49.0	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7	4.7 J
		2004 04 (Winter)	8.6 J	0.77 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	4.2 J	< 9.7	19.0	1.1 J	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	4.0 J
		2004 02 (Summer)	16.0	0.79 J	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	5.5 J	< 9.4 J	150	1.0 J	< 9.4	10.0 J	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	7.2
		2004 01 (Spring)	16.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	7.0 J	< 9.4	53.0	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	7.2 J
		2003 04 (Winter)	12.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	5.4 J	< 9.7	92.0	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	5.1 J
		2003 03 (Fall)	11.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	4.8 J	< 9.5	60.0	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	5.1 J
		2003 02 (Summer)	13.0	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5	6.1 J	< 9.5 UJ	78.0	< 9.5	< 9.5 UJ	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	6.2 J
		2003 01 (Spring)	11.0 J	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	3.9 J	< 9.5 UJ	85.0 J	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	4.5 J
		2002 04 (Winter)	19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	8.0 J	< 9.5	120	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	7.5 J
		2002 03 (Fall)	7.1 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	3.1 J	< 9.4	17.0	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	3.0 J
		2002 02 (Summer)	6.9 J	0.65 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	3.1 J	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	9.1 J	< 9.5	2.7 J
SWBZ	M010-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 20.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
	M039-A	2007 01 (Spring)	< 49.0	< 49.0	5.3 J	< 97.0	< 49.0	< 49.0	< 49.0	< 49.0	< 49.0	< 49.0	< 97.0	< 49.0	< 97.0	< 49.0
		2006 01 (Spring)	0.65 J	< 9.7	12.0	< 19.0	< 9.7	3.7 J	< 9.7	6.2 J	< 9.7	< 9.7	3.4 J	< 9.7	< 19.0	< 9.7
		2005 02 (Summer)	< 9.6	< 9.6	5.4 J	< 19.0	< 9.6	< 9.6	< 9.6	9.1 J	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	7.9 J	< 19.0 UJ	< 9.7 UJ	25.0 J	< 9.7 UJ	9.2 J	< 9.7	< 9.7	< 19.0 UJ	< 9.7 UJ	< 19.0	< 9.7 UJ
		2004 04 (Winter)	< 9.7	< 9.7	3.8 J	< 19.0	< 9.7	< 9.7	< 9.7	3.6 J	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	5.4 J	< 19.0	< 9.4	< 9.4	< 9.4	20.0	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	1.5 J
		2004 01 (Spring)	< 9.4	< 9.4	5.0 J	< 19.0	< 9.4	< 9.4	< 9.4	11.0	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	12.0	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	8.9 J	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	5.4 J	< 19.0 UJ	< 9.5	< 9.5	< 9.5	12.0	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.5 UJ	< 9.5 UJ	5.2 J	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	10.0 J	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	0.95 J
		2002 04 (Winter)	< 9.5	< 9.5	7.3 J	< 19.0	< 9.5	< 9.5	< 9.5	13.0	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	3.9 J	< 19.0 UJ	< 9.4	< 9.4	< 9.4	3.0 J	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	4.4 J	< 19.0	< 9.5	< 9.5	< 9.5	0.74 J	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
SWBZ	M010-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M010-B	2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6 J	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 48.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M012-B	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	4.4 J	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	M013-C	2007 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	M014-B	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M010-B	2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 J	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M012-B	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M013-C	2007 01 (Spring)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M014-B	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M014-B	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	M016-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	1.1 J	0.75 J	8.6 J	5.9 J	< 9.6	< 9.6	6.9 J	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M020-B	2007 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	14.0	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	5.8 J	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
	M021-C	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	7.3 J	< 9.5	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMZ	M014-B	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M016-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M020-B	2007 01 (Spring)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
	M021-C	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMZ	M021-C	2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	M023-B	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	2.1 J	< 9.6	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	5.8 J	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
	M023-C	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	11.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
	M036-B	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 J	< 9.6	< 9.6 J	< 9.6 J	< 9.6	< 9.6	< 9.6

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M021-C	2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7 UJ
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M023-B	2007 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	4.3 J	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M023-C	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 19.0 UJ	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M036-B	2007 01 (Spring)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 J	< 9.6	< 19.0 J	< 9.6

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M036-B	2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	7.7 J	< 9.4	< 9.4
		2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 50.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ
	M037-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	1.3 J	< 9.6	< 9.6
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6 J	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 48.0 J	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 50.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ
	M038-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 J	< 9.9 J	< 9.9	< 9.9	< 9.9 J	< 9.9	< 9.9	< 9.9	12.0 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
	M039-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs												
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMU 2	M036-B	2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ
	M037-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 J	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ
	M038-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	2.1 J	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 02 (Summer)	< 9.9	< 9.9	< 9.9	< 20.0 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0 J	< 9.9	< 20.0	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
	M039-B	2007 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	2-Chlorophenol	Dibenzofuran
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMZ	M039-B	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6

Table 8.1-4

Groundwater Sample Analytical Results Semivolatile Organic Compounds at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs													
			1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M039-B	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	442-MW1	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M011-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M012-A	2007 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M012-A	2005 02 (Summer)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.80
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M013-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M014-A	2007 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M014-A	2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M016-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.38	< 0.75	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.75
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M017-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 04 (Winter)	< 0.47 UJ	< 0.94 UJ	< 0.47 UJ	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M017-A	2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M018-A	2007 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.47 UJ	< 0.94 UJ	< 0.47 UJ	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M019-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.48 UJ	< 0.95 UJ	< 0.48 UJ	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M020-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M020-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.49 UJ	< 0.97 UJ	< 0.49 UJ	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M021-A	2007 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	0.15 J	0.15
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M022-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M022-A	2005 01 (Spring)	< 0.40 UJ	< 0.79 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.79
		2004 04 (Winter)	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M023-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2005 01 (Spring)	< 0.38 UJ	< 0.75 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.75
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M024-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.49 UJ	< 0.97 UJ	< 0.49 UJ	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M024-A	2004 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M024-E	2007 01 (Spring)	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2006 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
	M036-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	0.89	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M037-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 04 (Winter)	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M037-A	2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M037-E	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M038-A	2007 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M039-A	2007 01 (Spring)	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-5

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M039-A	2005 01 (Spring)	< 0.19	< 0.38	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.38
		2004 04 (Winter)	< 0.48 UJ	< 0.96 UJ	< 0.48 UJ	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	442-MW1	2007 01 (Spring)	< 0.24	3.2 J	310	< 2.0	0.24 J	< 0.49	0.30 J	2.7 J	-	< 0.23	180	< 0.20	2.5 J	1.3 J	< 5.0	< 5.0	< 5.0	< 4.7	31.0	130	380	32.0	11.0	8.9	190	< 0.010
		2006 03 (Fall)	< 1.0	5.0	240	< 2.0	< 5.0	< 10.0	0.19 J	2.3 J	-	< 3.0	150	< 0.20	3.3 J	1.3 J	< 5.0	< 5.0	< 5.0	4.5 J	6.2 J	< 68.0	440	33.0	10.0	11.0	190	-
		2006 01 (Spring)	0.37 J	< 5.0	290	< 2.0	< 5.0	1.5 J	0.46 J	< 10.0	-	< 3.0	290	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.8 J	**58.0**	< 100	590 J	33.0 J	9.4 J	6.5 J	50.0 J	-
		2005 02 (Summer)	0.23 J	5.8	190	< 2.0	< 5.0	0.51 J	0.070 J	0.44 J	-	< 3.0	150	< 0.20	4.0 J	0.98 J	0.58 J	< 5.0	0.099 J	1.3 J	< 20.0	< 100	360	33.0	11.0	10.0	170	-
		2005 01 (Spring)	0.70 J	< 5.0	130	0.37 J	< 5.0	< 10.0	< 1.0	16.0	-	< 3.0	19.0	< 0.46	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	< 10.0	**70.0**	< 100	46.0 J	19.0	6.2	< 10.0	37.0	-
		2004 04 (Winter)	0.69 J	4.7 J	310	< 2.0	< 5.0	0.50 J	0.15 J	1.9 J	-	0.33 J	93.0	< 0.20	4.4 J	0.98 J	< 5.0	< 5.0	< 5.0	2.6 J	14.0 J	4.4 J	60.0 J	30.0	8.2	8.2	130	-
		2004 02 (Summer)	0.31 J	5.8	180	< 1.0	< 1.0	< 1.0	0.14 J	0.54 J	-	0.081 J	100	< 0.20	4.2 J	1.3	< 1.0	< 1.0	< 1.0	< 1.3	10.0	< 50.0	330	24.0	10.0	12.0	280	-
		2004 01 (Spring)	< 5.0	< 50.0	565	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	120	**0.32 J**	< 50.0	< 20.0	< 20.0	< 10.0 UJ	< 10.0	< 50.0	8.4 J	< 200	255	41.2	14.6	13.5 J	273	-
		2003 04 (Winter)	< 5.0	< 50.0	441	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	122	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	7.7 J	< 200	123	39.1	10.7	7.6	39.5	-
		2003 03 (Fall)	< 5.0 UJ	6.7 J	174	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	164	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	596	33.0	14.4	12.7 J	252 J	-
		2003 02 (Summer)	< 50.0	9.2 J	228	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	207 J	< 0.40 UJ	5.3 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	774	37.4	13.9	15.2 J	160	-
		2003 01 (Spring)	0.35 J	3.1 J	520	< 2.0	< 5.0	< 10.0	< 10.0	0.57 J	-	< 3.0	120	< 0.20	3.3 J	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0 UJ	< 100	300	33.0	13.0	11.0	210	-
		2002 04 (Winter)	0.75 J	< 5.0	**650**	< 2.0	0.094 J	< 10.0	0.16 J	0.98 J	-	0.15 J	100	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 2.0	1.7 J	33.0 J	< 100	< 300	35.0	9.1	6.7	30.0	-
		2002 03 (Fall)	0.089 J	6.1	130	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	0.72 J	100	< 0.20	5.7 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	210	24.0	12.0	14.0	290	-
		2002 02 (Summer)	0.12 J	5.5	180	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 10.0 UJ	0.027 J	110	< 0.20	< 20.0	14.0 J	1.6 J	< 5.0 UJ	< 2.0	< 10.0	< 20.0	60.0 J	270	24.0	12.0	15.0	300	< 0.010
	M011-A	2007 01 (Spring)	0.87 J	6.6	340	0.53 J	0.41 J	< 1.4	2.8	< 10.0	-	0.27 J	**7400**	< 0.20	5.0 J	6.0 J	0.63 J	0.37 J	0.57 J	6.2 J	20.0	54.0 J	**13000**	**270**	350	59.0	2400	-
		2006 03 (Fall)	< 1.0	11.0	240	< 2.0	0.079 J	< 10.0	2.7	2.5 J	-	< 3.0	**5400 J**	< 0.20	4.6 J	6.6 J	0.32 J	2.8 J	< 5.0	6.0 J	**150 J**	< 90.0	**9300**	**160**	240 J	59.0	2600 J	-
		2006 01 (Spring)	0.44 J	< 5.0	70.0	< 2.0	< 5.0	1.3 J	0.45 J	< 10.0	-	< 3.0	790	< 0.20	< 20.0	2.0 J	< 5.0	< 5.0	< 5.0	3.4 J	5.5 J	< 100	700 J	140 J	44.0 J	16.0 J	400 J	-
		2005 02 (Summer)	0.54 J	13.0	280	< 2.0	< 5.0	2.9 J	3.8	1.3 J	-	0.26 J	**6500**	< 0.20	5.9 J	8.3 J	**8.9**	< 5.0	< 5.0	6.0 J	33.0	< 100	**12000**	**200**	320	74.0	2800	-
		2005 01 (Spring)	0.57 J	2.6 J	160	< 2.0	< 5.0	1.2 J	2.2	< 10.0	-	< 3.0	**3900**	< 0.20	2.0 J	4.8 J	< 5.0	< 5.0	4.5 J	2.5 J	12.0 J	< 100	5100	**210**	190	37.0	1400	-
		2004 04 (Winter)	0.54 J	17.0	500	< 2.0	< 5.0	2.2 J	2.9	3.3 J	-	0.40 J	**8800**	< 0.20	3.2 J	8.5 J	**15.0**	< 5.0	< 5.0	5.2 J	9.2 J	8.3 J	**18000**	**270**	**360**	77.0	3200	-
		2004 02 (Summer)	0.85 J	< 1.0	560	< 1.0	< 1.0	3.0	3.8	9.1	-	0.13 J	**9500**	< 0.20	3.6 J	13.0	< 1.0	< 1.0	< 1.0	5.6	< 1.0	5.6 J	**17000**	**300**	**460**	93.0	3700	-
		2004 01 (Spring)	< 10.0	9.9 J	390	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**6590**	< 0.40	12.0 J	< 20.0	< 20.0	< 10.0	< 10.0	5.6 J	< 20.0	< 200	**14400**	**318**	332	76.5 J	2680	-
		2003 04 (Winter)	< 5.0	8.6 J	442	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**6790**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**15100**	**305**	323	80.2	2670	-
		2003 03 (Fall)	< 25.0 UJ	18.9 J	**844**	< 4.0	0.67 J	1.4 J	3.0 J	< 10.0	-	< 10.0	**10700 J**	< 0.40	5.4 J	9.9 J	< 20.0	< 10.0	< 50.0	4.4 J	< 20.0	< 200	**27100 J**	**439 J**	**549 J**	110 J	3610 J	-
		2003 02 (Summer)	< 50.0	11.5 J	541	< 4.0	< 5.0	< 10.0	3.3 J	< 10.0	-	< 10.0	**7290**	< 0.40	< 50.0	5.2 J	< 20.0	< 10.0	< 5.0	3.1 J	< 20.0	< 200	**19700**	**275**	**362**	87.0 J	2410	-
		2003 01 (Spring)	< 1.0	5.7	270	< 2.0	< 5.0	2.3 J	< 10.0	< 10.0	-	< 3.0	**3800**	< 0.20	3.5 J	6.4 J	< 5.0	< 5.0	< 1.0	6.2 J	< 20.0	< 100	**14000**	**200**	190	49.0	1700	-
		2002 04 (Winter)	0.49 J	17.0	< 420 UJ	< 2.0	< 5.0	2.4 J	2.7 J	1.4 J	-	< 3.0	**5800 J**	< 0.20	3.9 J	7.5 J	**23.0**	< 5.0	< 2.0	4.7 J	< 20.0	< 100	**19000**	**200 J**	270 J	66.0 J	2200	-
		2002 03 (Fall)	0.66 J	< 5.0	440	< 2.0	< 5.0	< 10.0	2.0 J	5.5 J	-	0.45 J	**6000**	< 0.20	4.0 J	8.7 J	< 5.0	< 5.0	< 2.0	4.3 J	< 20.0	< 100	**15000**	**240**	310	77.0	2800	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M011-A	2002 02 (Summer)		0.91 J	7.5	320	< 2.0	< 5.0	6.6 J	1.9 J	1.7 J	< 10.0	< 3.0	**4200**	0.13 J	5.3 J	6.0 J	< 5.0	< 5.0	< 2.0	9.0 J	< 20.0	400 J	**13000**	**210**	240	61.0	2300	< 0.010
M012-A	2007 01 (Spring)		< 0.25	5.7	13.0	< 2.0	< 5.0	< 2.1	0.43 J	2.4 J	-	0.33 J	50.0	< 0.20	5.3 J	5.0 J	< 5.0	< 5.0	< 5.0	< 8.5	9.5 J	< 64.0	< 140	1.8	1.3	3.6	98.0	-
	2006 03 (Fall)		< 1.0	8.2	45.0	< 2.0	< 5.0	< 10.0	0.38 J	5.9 J	-	< 3.0	110	< 0.20	9.1 J	3.8 J	< 5.0	< 5.0	< 5.0	4.3 J	26.0	< 68.0	330	4.5	6.0	8.6	250 J	-
	2006 01 (Spring)		0.18 J	6.0	15.0	< 2.0	< 5.0	1.5 J	0.79 J	1.8 J	-	< 3.0	110	< 0.20	1.5 J	4.2 J	1.7 J	< 5.0	< 5.0	5.0 J	< 20.0	< 100	1100	1.3	2.4	3.7	75.0	-
	2005 02 (Summer)		0.18 J	5.8	61.0	< 2.0	< 5.0	0.91 J	0.38 J	1.3 J	-	< 3.0	130	< 0.20	8.9 J	4.3 J	0.60 J	< 5.0	< 5.0	0.84 J	< 20.0	17.0 J	180	5.5	7.2	9.1	270	-
	2005 01 (Spring)		0.28 J	< 5.0	14.0	< 2.0	< 5.0	< 10.0	0.73 J	9.5 J	-	< 3.0	120	< 0.46	< 20.0	7.1 J	< 5.0	< 5.0	< 5.0	2.2 J	13.0 J	< 100	1200	2.1	3.5	2.3 J	59.0	-
	2004 04 (Winter)		0.21 J	6.0	40.0	< 2.0	< 5.0	0.64 J	0.29 J	1.3 J	-	0.35 J	70.0	< 0.20	6.2 J	4.3 J	1.1 J	< 5.0	< 5.0	1.5 J	4.2 J	24.0 J	61.0 J	3.2	5.3	7.9	280	-
	2004 02 (Summer)		0.14 J	< 2.7	46.0	< 1.0	< 1.0	< 1.0	1.4	1.1	-	0.58 J	160	< 0.20	4.4 J	8.8	< 1.0	< 1.0	0.27 J	< 1.1	12.0	12.0 J	970	3.1	4.8	7.3	170	-
	2004 01 (Spring)		< 5.0	4.7 J	60.9 J	< 4.0	< 5.0	< 10.0	7.5 J	< 10.0	-	< 10.0	481	< 0.40	< 50.0	**31.0**	< 20.0	< 10.0	< 10.0	< 50.0	5.8 J	388	5750	5.8	9.0	6.3 J	37.3	-
	2003 04 (Winter)		< 5.0	4.3 J	25.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	55.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	11.1 J	< 200	141	2.0	3.3	< 4.2	150	-
	2003 03 (Fall)		< 5.0 UJ	< 50.0	53.3 J	< 4.0	< 5.0	1.2 J	< 10.0	< 10.0	-	< 10.0	145 J	< 0.40	6.7 J	5.4 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	54.8 J	462 J	4.0 J	6.5 J	12.0 J	186 J	-
	2003 02 (Summer)		< 50.0	< 50.0	58.7 J	< 4.0	< 5.0	< 10.0	2.8 J	< 10.0	-	< 10.0	389 J	< 0.40 UJ	< 50.0	10.7 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	3530	4.5	7.3	7.9 J	102	-
	2002 04 (Winter)		0.19 J	3.8 J	46.0 J	< 2.0	< 5.0	< 10.0 UJ	0.49 J	1.2 J	-	0.32 J	83.0	< 0.20	< 20.0 UJ	4.8 J	0.85 J	< 5.0	< 2.0	3.0 J	6.4 J	96.0 J	340 J	3.5	5.1	7.6	220	-
	2002 03 (Fall)		0.13 J	< 5.0	45.0	< 2.0	< 5.0	< 10.0	0.63 J	< 10.0	-	< 3.0	110	< 0.20	1.5 J	6.8 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	360	3.3	5.1	7.3	200	-
	2002 02 (Summer)		0.13 J	2.7 J	53.0	< 2.0	< 5.0	0.92 J	1.7 J	0.82 J	< 10.0	< 3.0	170	0.048 J	< 20.0	7.3 J	< 5.0	< 5.0	< 2.0	1.2 J	2.4 J	< 100	980	3.6	6.0	8.3	110	< 0.010
M013-A	2007 01 (Spring)		< 0.40	15.0	91.0	< 2.0	0.070 J	< 1.7	0.14 J	1.4 J	-	< 0.13	1.0 J	< 0.20	0.40 J	1.4 J	< 5.0	< 5.0	< 5.0	23.0	5.3 J	< 24.0	< 20.0	5.8	9.9	7.0	49.0	-
	2006 03 (Fall)		< 1.0	**25.0**	47.0	< 2.0	< 5.0	< 10.0	< 1.0	2.4 J	-	< 3.0	1.3	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	**37.0**	**39.0**	< 68.0	< 100	3.1	3.2	5.1	54.0	-
	2006 01 (Spring)		0.28 J	12.0	160	< 2.0	< 5.0	1.5 J	< 1.0	2.7 J	-	< 3.0	0.85 J	< 0.20	0.68 J	1.0 J	< 5.0	< 5.0	< 5.0	17.0	3.5 J	< 100	< 100	7.9	12.0	8.9	35.0	-
	2005 02 (Summer)		0.39 J	20.0	69.0	< 2.0	< 5.0	1.2 J	0.046 J	1.7 J	-	< 3.0	12.0	< 0.20	< 20.0	2.6 J	0.57 J	< 5.0	< 5.0	**30.0**	**47.0**	11.0 J	22.0 J	4.0	5.3	7.2	87.0	-
	2005 01 (Spring)		0.35 J	17.0	62.0	< 2.0	< 5.0	1.1 J	< 1.0	< 10.0	-	< 3.0	2.6 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	26.0	5.8 J	< 100	20.0 J	3.6	5.5	4.4 J	51.0	-
	2004 04 (Winter)		0.55 J	9.9	85.0	< 2.0	< 5.0	1.8 J	< 1.0	2.1 J	-	0.37 J	1.6 J	< 0.20	0.43 J	2.2 J	< 5.0	< 5.0	< 5.0	19.0	5.0 J	8.7 J	36.0 J	4.5	5.4	7.6	41.0	-
	2004 02 (Summer)		0.44 J	16.0	110	< 1.0	< 1.0	< 1.0	0.082 J	1.7	-	< 1.0	7.3 J	< 0.20	0.52 J	2.7	< 1.0	< 1.0	< 1.0	24.0	< 2.2	9.1 J	< 100	5.8	7.9	9.5	49.0	-
	2004 01 (Spring)		< 5.0	**29.1 J**	53.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	5.5 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	**33.1 J**	< 20.0	124 J	212	3.1	4.6	6.6 J	62.4	-
	2003 04 (Winter)		< 5.0	10.1 J	73.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	< 10.0	< 0.40	< 50.0	10.9 J	< 20.0	< 10.0	< 5.0 UJ	15.7 J	7.6 J	135 J	188	3.9	5.2	8.4	38.5	-
	2003 03 (Fall)		< 5.0 UJ	9.1 J	56.1 J	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	-	< 10.0	1.4 J	< 0.40	< 50.0	2.2 J	< 20.0	< 10.0	< 5.0	**29.7 J**	< 20.0	50.1 J	29.7 J	2.9 J	3.7 J	6.3 J	48.5 J	-
	2003 02 (Summer)		< 50.0	12.3 J	111	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	-	< 10.0	3.0 J	< 0.40 UJ	< 50.0	2.0 J	< 20.0	< 10.0	< 5.0	23.9 J	< 20.0	< 200	< 100	5.5	7.9	9.0 J	43.6	-
	2003 01 (Spring)		< 1.0	**40.0**	27.0	< 2.0	< 5.0	3.3 J	< 10.0	2.5 J	-	< 3.0	9.8 J	< 0.20	0.30 J	6.7 J	< 5.0	< 5.0	< 1.0	**52.0**	3.5 J	570	890	1.2	2.1	3.6	51.0	-
	2002 04 (Winter)		0.50 J	**30.0**	37.0 J	0.027 J	< 5.0	< 10.0	0.29 J	1.5 J	-	< 3.0	6.1 J	< 0.20	0.56 J	2.4 J	< 5.0	< 5.0	< 2.0	**35.0**	3.9 J	160	190	1.8	2.4	4.9	50.0	-
	2002 03 (Fall)		0.37 J	13.0	60.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 3.0	4.1 J	< 0.20	0.58 J	2.1 J	< 5.0	< 5.0	< 2.0	18.0 J	< 20.0	110	< 130	2.6	3.4	6.9	53.0	-

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Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M013-A	2002 02 (Summer)		0.37 J	6.2	110	< 2.0	< 5.0	1.3 J	< 10.0	1.4 J	< 10.0	< 3.0	8.5 J	< 0.20	< 20.0	1.3 J	< 5.0	< 5.0	< 2.0	11.0	1.2 J	< 100	34.0 J	4.9	7.6	8.6	50.0	< 0.010
M014-A	2007 01 (Spring)		< 0.11	0.66 J	15.0	< 2.0	< 5.0	2.3 J	< 1.0	< 10.0	-	< 0.14	8.6 J	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	7.7 J	30.0	< 17.0	31.0 J	7.9	8.1	3.2	17.0	-
	2006 03 (Fall)		< 1.0	0.59 J	16.0	< 2.0	< 5.0	< 10.0	< 1.0	0.99 J	-	< 3.0	1.8	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	4.8 J	17.0 J	< 100	< 100	6.6	4.5	3.8	11.0	-
	2006 01 (Spring)		0.082 J	< 5.0	13.0	< 2.0	< 5.0	2.1 J	0.036 J	< 10.0	-	< 3.0	2.0 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	2.6 J	3.8 J	< 100	< 100	4.8 J	3.3 J	3.0 J	8.0 J	-
	2005 02 (Summer)		< 1.0	0.66 J	14.0	< 2.0	< 5.0	2.0 J	0.044 J	0.69 J	-	< 3.0	8.1 J	< 0.20	< 20.0	1.3 J	0.48 J	< 5.0	< 5.0	2.3 J	21.0	1.3 J	36.0 J	5.8	4.4	3.4	14.0	-
	2005 01 (Spring)		0.34 J	2.6 J	8.6 J	< 2.0	< 5.0	2.1 J	< 1.0	< 10.0	-	< 3.0	4.6 J	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 5.0	1.5 J	9.0 J	< 100	23.0 J	3.5	2.5	< 10.0	12.0	-
	2004 04 (Winter)		0.14 J	1.5 J	8.9 J	< 2.0	< 5.0	1.3 J	< 1.0	0.87 J	-	0.25 J	5.1 J	< 0.20	< 20.0	0.84 J	< 5.0	< 5.0	< 5.0	2.1 J	2.4 J	2.7 J	36.0 J	3.7	2.7	2.7	12.0	-
	2004 02 (Summer)		0.16 J	< 2.6	11.0	< 1.0	< 1.0	1.9	< 1.0	0.71 J	-	< 1.0	< 10.0	< 0.20	< 5.0	1.1	< 1.0	< 1.0	< 1.0	< 3.5	5.1	< 50.0	< 100	5.0	3.3	3.4	15.0	-
	2004 01 (Spring)		< 5.0	< 50.0	9.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	70.1 J	4.2	2.8	2.9 J	12.7	-
	2003 04 (Winter)		< 5.0	< 50.0	10.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	5.2 J	< 20.0	< 200	74.9 J	4.1	3.0	< 3.8	14.4	-
	2003 03 (Fall)		< 5.0	< 50.0	9.8 J	< 4.0	< 5.0	1.9 J	< 10.0	< 10.0	-	< 10.0	1.2 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.7 J	2.5 J	< 200	< 100	4.7	3.0	2.6	9.8	-
	2003 02 (Summer)		< 50.0	< 50.0	10.2 J	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	-	< 10.0	2.6 J	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.7 J	< 20.0	< 200	< 100	4.8	3.1	2.8 J	13.0	-
	2003 01 (Spring)		< 1.0	< 5.0	9.4 J	< 2.0	< 5.0	2.4 J	< 10.0	< 10.0	-	< 3.0	3.7 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	3.5 J	2.1 J	45.0 J	78.0 J	3.4	2.3	2.8	14.0	-
	2002 04 (Winter)		0.19 J	0.76 J	8.4 J	< 2.0	< 5.0	1.9 J	0.074 J	0.29 J	-	< 3.0	1.5 J	< 0.20	0.44 J	0.61 J	< 5.0	< 5.0	1.9 J	2.7 J	< 20.0	55.0 J	< 100	3.6	2.1	3.2	12.0	-
	2002 03 (Fall)		0.14 J	< 5.0	8.8 J	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 3.0	2.1 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	83.0 J	< 130	4.0	2.5	3.3	12.0	-
	2002 02 (Summer)		0.19 J	0.51 J	6.8 J	< 2.0	< 5.0	1.9 J	< 10.0	0.68 J	< 10.0	< 3.0	5.3 J	< 0.20	< 20.0	0.96 J	< 5.0	< 5.0	< 2.0	2.3 J	< 20.0	< 100	39.0 J	2.2	2.0	2.2	19.0	< 0.010
M016-A	2005 02 (Summer)		0.10 J	3.2 J	130	< 2.0	< 5.0	2.2 J	2.9	1.0 J	-	< 3.0	1400	< 0.20	< 20.0	5.0 J	5.7	< 5.0	< 5.0	1.9 J	25.0	5.9 J	**19000**	**260**	200	87.0	1400	-
	2005 01 (Spring)		0.21 J	< 5.0	59.0	< 2.0	< 5.0	1.1 J	3.2	< 10.0	-	< 3.0	1200	< 0.46	< 20.0	1.4 J	< 5.0	< 5.0	< 5.0	0.87 J	5.8 J	< 100	**18000**	**290**	270	96.0	1900	-
	2004 04 (Winter)		0.25 J	11.0	170	< 2.0	< 5.0	0.99 J	1.3	3.5 J	-	0.22 J	**2600**	0.14 J	1.1 J	5.1 J	**19.0**	< 5.0	0.24 J	0.80 J	13.0 J	2.3 J	**25000**	**610**	**860**	**230**	**6300**	-
	2004 02 (Summer)		0.18 J	< 1.0	68.0	< 1.0	< 1.0	1.7 J	2.2	2.6	-	0.055 J	1100	< 0.20	0.80 J	4.3	< 1.0 J	< 5.0	< 1.0	1.4 J	< 20.0	2.8 J	**17000 J**	**290**	260	110	2300	-
	2004 01 (Spring)		< 10.0	< 50.0	81.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**1890**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**32300**	**410**	**384**	**161**	2840	-
	2003 04 (Winter)		< 5.0	< 50.0	123	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	1730	< 0.40	**15.0 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**23000**	**444**	**665**	**245**	**5490**	-
	2003 03 (Fall)		< 25.0 UJ	< 50.0	184	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	1720 J	< 0.40	< 50.0	4.3 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**23300 J**	**507 J**	**689 J**	**203 J**	**4560 J**	-
	2003 02 (Summer)		< 50.0	< 50.0	89.4 J	< 4.0	< 5.0	< 10.0	1.7 J	< 10.0	-	< 10.0	1260 J	< 0.40 UJ	< 50.0	3.1 J	< 20.0	< 10.0	< 50.0	1.8 J	< 20.0	< 200	**20700**	**342**	252	96.6 J	2060	-
	2003 01 (Spring)		< 1.0	7.4	58.0	< 2.0	< 5.0	2.5 J	3.9 J	< 10.0	-	< 3.0	1300	< 0.20	0.73 J	4.9 J	< 5.0	< 5.0	< 1.0	3.8 J	1.9 J	< 100	**23000**	**240**	220	110	1700	-
	2002 04 (Winter)		0.13 J	14.0 J	180	< 2.0	< 5.0	< 10.0	1.5 J	4.7 J	-	0.32 J	**2200**	< 0.20	< 20.0 UJ	5.6 J	**49.0**	< 5.0	< 2.0	0.84 J	< 20.0	4.6 J	**24000 J**	**580**	**930**	**260**	**6800**	-
	2002 03 (Fall)		0.14 J	< 5.0	160	< 2.0	< 5.0	< 10.0	1.4 J	< 10.0	-	< 3.0	1700	< 0.20	1.0 J	5.8 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**7800**	**450**	**680**	**180**	**5000**	-
	2002 02 (Summer)		0.20 J	4.4 J	91.0	< 2.0	< 5.0	11.0	2.3 J	1.5 J	< 10.0	< 3.0	1100	< 0.20	< 20.0	3.2 J	< 5.0	< 5.0	< 2.0	4.6 J	< 20.0	< 100	**14000**	**230**	200	91.0	1800	< 0.010
M016-E	2007 01 (Spring)		< 0.20	7.4	180	< 2.0	< 5.0	< 1.7	3.0	1.3 J	-	< 3.0	**3700**	< 0.20	1.3 J	7.5 J	< 5.0	< 5.0	< 5.0	4.6 J	< 1.8	< 17.0	**18000**	**220**	**530**	140	**4700**	-

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Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M016-E	2006 03 (Fall)		< 1.0	8.8	200	0.22 J	0.29 J	< 10.0	3.4	2.0 J	-	0.36 J	**3400 J**	< 0.20	2.1 J	6.7 J	0.47 J	2.2 J	0.67 J	< 10.0	11.0 J	< 22.0	**17000**	**170**	**450 J**	130	**3900 J**	-
	2006 01 (Spring)		0.24 J	< 5.0	140	0.41 J	< 5.0	2.2 J	3.8	< 10.0	-	< 3.0	**2900**	**0.24**	< 20.0	8.0 J	2.2 J	< 5.0	< 5.0	1.9 J	13.0 J	< 100	**13000 J**	120 J	340 J	100 J	3400 J	-
	2005 02 (Summer)		0.57 J	11.0	200	< 2.0	< 5.0	2.8 J	3.8	2.2 J	-	< 3.0	**3200**	< 0.20	1.5 J	9.5 J	**14.0 J**	< 5.0	< 5.0	2.7 J	**39.0 J**	< 100	**19000 J**	**160**	**430**	130	**4400**	-
	2005 01 (Spring)		0.39 J	11.0	140	< 2.0	< 5.0	2.1 J	3.8	< 10.0	-	< 3.0	**2400**	< 0.20	< 20.0	9.2 J	< 5.0	< 5.0	< 5.0	2.1 J	12.0 J	< 100	**13000**	140	300	110	3000	-
	2004 04 (Winter)		0.19 J	19.0	350	< 2.0	< 5.0	1.0 J	1.7	3.2 J	-	0.16 J	**4000**	< 0.20	0.87 J	5.0 J	**13.0**	< 5.0	< 5.0	0.92 J	15.0 J	4.9 J	**36000**	**530**	**730**	**190**	**5400**	-
	2004 02 (Summer)		0.28 J	< 1.0	200	< 1.0	< 1.0	2.6 J	4.4	4.8	-	< 1.0	**3200**	< 0.20 J	1.6	12.0	< 1.0 J	< 5.0	< 1.0	3.0 J	< 20.0	2.6 J	**17000 J**	**180**	**410**	130	**3900**	-
	2004 01 (Spring)		< 5.0	16.5 J	177	< 4.0	< 5.0	< 10.0	5.5 J	< 10.0	-	< 10.0	**3090 J**	< 1.0	11.7 J	< 20.0	< 20.0	< 10.0	< 10.0	5.1 J	< 20.0	< 200	**19000 J**	**223 J**	**397**	147	**3790 J**	-
	2003 04 (Winter)		< 5.0	< 50.0	251	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**3640**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**34300**	**479**	**693**	**246**	**5740**	-
	2003 03 (Fall)		< 5.0	< 50.0	445	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**7190**	< 0.40	< 50.0	2.1 J	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	**56500**	**761**	**768**	**200**	**4350**	-
	2003 02 (Summer)		< 50.0	17.6 J	214	< 4.0	< 5.0	< 10.0	4.7 J	< 10.0	-	< 10.0	**3860 J**	< 0.40 UJ	< 50.0	9.6 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**21800**	**217**	**500**	138 J	**3930**	-
	2003 01 (Spring)		< 1.0	3.2 J	170 J	< 2.0	< 5.0	2.5 J	4.6 J	2.2 J	-	< 3.0	**2800**	< 0.20	1.6 J	12.0 J	< 5.0	< 5.0	< 1.0	3.3 J	< 20.0	< 100	**17000**	**160**	340	110	**3900**	-
	2002 04 (Winter)		0.15 J	**23.0 J**	280 J	< 2.0	< 5.0	< 10.0	1.8 J	4.1 J	-	0.41 J	**4800**	< 0.20	< 20.0 UJ	4.5 J	**35.0**	< 5.0	< 2.0	0.76 J	< 20.0	4.5 J	**37000 J**	**540**	**800**	**190**	**6000**	-
	2002 03 (Fall)		0.14 J	< 5.0	260	< 2.0	< 5.0	< 10.0	2.1 J	5.1 J	-	< 3.0	**6300**	< 0.20	1.1 J	8.4 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**17000**	**680**	**780**	**180**	**4700**	-
	2002 02 (Summer)		0.29 J	8.5	91.0	< 2.0	0.25 J	**23.0**	4.9 J	1.8 J	< 10.0	< 3.0	**3300**	< 0.20	< 20.0	11.0 J	< 5.0	0.11 J	< 2.0	7.1 J	< 20.0	< 100	980	110	290	130	2700	< 0.010
M017-A	2007 01 (Spring)		< 0.50	3.3 J	49.0	< 2.0	0.099 J	< 0.64	0.31 J	4.6 J	-	< 3.0	3.8 J	< 0.20	4.0 J	4.0 J	0.62 J	< 5.0	< 5.0	6.3 J	< 20.0	< 17.0	< 100	**340**	**600**	**170**	**4400**	-
	2006 03 (Fall)		< 1.0	2.8 J	53.0	< 2.0	0.15 J	< 10.0	0.19 J	4.6 J	-	< 3.0	0.36 J	< 0.20	4.5 J	2.8 J	0.79 J	2.8 J	< 5.0	4.7 J	17.0 J	< 68.0	< 100	**280 J**	**520 J**	**160**	**4000 J**	-
	2006 01 (Spring)		0.44 J	8.1	31.0	0.49 J	< 5.0	1.2 J	0.35 J	12.0	-	< 3.0	1.2 J	< 0.20	< 20.0	0.99 J	< 5.0	< 5.0	< 5.0	3.5 J	6.7 J	< 100	< 100	**220 J**	**460 J**	140 J	**3900 J**	-
	2005 02 (Summer)		0.81 J	< 5.0	80.0	< 2.0	< 5.0	0.89 J	0.45 J	6.6 J	-	< 3.0	0.52 J	< 0.20	5.2 J	3.9 J	**26.0 J**	< 5.0	< 5.0	3.2 J	33.0	< 100	700 J	**350**	**790**	**240**	**6400**	-
	2005 01 (Spring)		0.50 J	< 5.0	43.0	< 2.0	< 5.0	< 10.0	0.56 J	3.8 J	-	< 3.0	< 10.0	< 0.46	2.4 J	2.5 J	< 5.0	< 5.0	< 5.0	2.7 J	13.0 J	< 100	< 100	**240**	**610**	**190**	**5300**	-
	2004 04 (Winter)		0.39 J	10.0	95.0	< 2.0	< 5.0	1.1 J	0.77 J	5.5 J	-	0.086 J	11.0 J	< 0.20	3.5 J	9.0 J	**27.0**	< 5.0	< 5.0	3.3 J	17.0 J	3.5 J	1500 J	**390**	**990**	**300**	**7600**	-
	2004 02 (Summer)		0.41 J	4.7	67.0	< 1.0	< 1.0	1.4	0.94 J	4.5	-	0.085 J	< 10.0	< 0.20	4.2 J	4.4	< 1.0 J	< 5.0	< 1.0	5.1	< 20.0	2.3 J	< 100	**360**	**670**	**260**	**5800**	-
	2004 01 (Spring)		< 5.0	4.2 J	46.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	**24.7 J**	< 20.0	< 20.0	< 10.0	< 10.0	5.9 J	< 20.0	< 200	< 100	**264**	**655**	**252 J**	**6040**	-
	2003 04 (Winter)		2.2 J	< 50.0	64.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	< 10.0	< 0.40	< 50.0	16.9 J	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	< 100	**310**	**828**	**360**	**7740**	-
	2003 03 (Fall)		< 5.0	< 50.0	95.0 J	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	-	< 10.0	< 10.0	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**425**	**1040**	**327**	**6800**	-
	2003 02 (Summer)		< 50.0	< 50.0	75.6 J	< 4.0	< 5.0	< 10.0	< 10.0	3.0 J	-	< 10.0	< 10.0	< 0.40 UJ	< 50.0	1.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**562**	**836**	**292 J**	**5830**	-
	2003 01 (Spring)		0.64 J	< 5.0	73.0	< 2.0	< 5.0	1.1 J	< 10.0	6.5 J	-	< 3.0	1.4 J	< 0.20	3.5 J	5.0 J	< 5.0	< 5.0	< 1.0	4.6 J	< 20.0	4.7 J	730	**340**	**850**	**260**	**7000**	-
	2002 04 (Winter)		0.27 J	18.0 J	94.0 J	< 2.0	< 5.0	< 10.0 UJ	1.0 J	6.2 J	-	0.47 J	< 10.0	< 0.20	< 20.0 UJ	7.3 J	**67.0**	< 5.0	< 2.0	3.0 J	< 20.0	6.2 J	< 100 UJ	**420**	**1100**	**330**	**9100**	-
	2002 03 (Fall)		< 50.0	< 5.0	99.0	< 2.0	< 5.0	< 10.0	0.94 J	< 10.0	-	< 3.0	< 10.0	< 0.20	3.6 J	6.2 J	< 5.0 UJ	< 5.0	< 2.0	1.9 J	< 20.0	< 100	840	**370**	**1000**	**290**	**8100**	-
	2002 02 (Summer)		0.29 J	13.0	85.0	< 2.0	< 5.0	7.6 J	0.81 J	< 10.0	< 10.0	0.036 J	< 10.0	< 0.20	< 20.0	< 20.0	**52.0 J**	< 5.0	< 2.0	< 10.0	< 20.0	610	< 100	**330**	**870**	**270**	**6800**	< 0.010

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Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M018-A	2005 02 (Summer)		0.55 J	2.3 J	91.0	< 2.0	1.0 J	1.0 J	1.2	8.8 J	-	< 3.0	510	< 0.20	2.4 J	14.0 J	**9.8 J**	< 5.0	< 5.0	5.4 J	32.0	< 100	460 J	**290**	**580**	**170**	**4200**	-
	2005 01 (Spring)		0.51 J	3.4 J	58.0	< 2.0	1.6 J	2.7 J	1.5	3.4 J	-	< 3.0	1400	< 0.46	< 20.0	19.0 J	< 5.0	< 5.0	10.0	3.7 J	11.0 J	< 100	< 100	**290**	**600**	**180**	**4600**	-
	2004 04 (Winter)		0.31 J	9.6	130	< 2.0	1.5 J	1.0 J	1.5	6.2 J	-	0.12 J	**2000**	< 0.20	2.1 J	18.0 J	< 5.0	< 5.0	< 5.0	3.5 J	18.0 J	4.1 J	1700 J	**510**	**1000**	**260**	**5700**	-
	2004 02 (Summer)		< 1.0	7.0	61.0	< 2.0	< 5.0	< 10.0	0.99 J	4.1 J	-	0.60 J	570	< 0.20	< 20.0	< 20.0	**18.0**	< 5.0	< 1.0	7.7 J	< 20.0	< 50.0	< 100	**290**	**550**	**180**	**4300**	-
	2004 01 (Spring)		< 10.0	< 50.0	54.0 J	< 4.0	< 5.0	< 10.0	< 10.0	5.6 J	-	< 10.0	840	< 0.40	**13.5 J**	12.4 J	< 20.0	< 10.0	< 10.0	8.0 J	< 20.0	< 200	< 100	**317**	**628**	**216**	**4530**	-
	2003 04 (Winter)		< 5.0	< 50.0	111	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	50.5	< 0.40	< 50.0	**21.5**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	< 100	**402**	**835**	**266**	**5120**	-
	2003 03 (Fall)		< 5.0	< 50.0	123	< 4.0	< 5.0	< 10.0	< 10.0	3.9 J	-	< 10.0	632	< 0.40	< 50.0	11.2 J	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	< 100	**469**	**1050**	**251**	**5220**	-
	2003 02 (Summer)		< 50.0	< 50.0	88.5 J	< 4.0	< 5.0	< 10.0	< 10.0	6.0 J	-	< 10.0	51.8 J	< 0.40 UJ	< 50.0	10.8 J	< 20.0	< 10.0	< 50.0	3.1 J	< 20.0	< 200 UJ	< 100	**343**	**657**	**176 J**	**3750**	-
	2003 01 (Spring)		1.7	6.3	91.0	< 2.0	1.2 J	1.2 J	1.2 J	6.2 J	-	< 3.0	150	< 0.20	2.5 J	12.0 J	**16.0 J**	< 5.0	< 1.0	5.5 J	< 20.0	3.2 J	610	**290 J**	**550 J**	**160 J**	**4000**	-
	2002 04 (Winter)		0.18 J	11.0 J	160	< 2.0	0.60 J	< 10.0	0.97 J	6.2 J	-	0.42 J	2.8 J	< 0.20	< 20.0 UJ	9.0 J	**37.0**	**5.0 J**	< 2.0	4.5 J	< 20.0	5.9 J	1800	**470**	**840**	**210**	**5400**	-
	2002 03 (Fall)		0.20 J	6.7	110	< 2.0	0.98 J	< 10.0	1.2 J	6.0 J	-	< 3.0	28.0	< 0.20	3.1 J	13.0 J	**11.0**	< 5.0	< 2.0	< 10.0	**44.0**	< 100	970	**290**	**550**	**150**	**3800**	-
	2002 02 (Summer)		0.24 J	8.8	110	< 2.0	< 5.0	4.9 J	1.3 J	< 10.0	< 10.0	0.043 J	56.0	< 0.20	< 20.0	< 20.0	**35.0 J**	< 5.0	< 2.0	6.8 J	< 20.0	5.4 J	< 100	**220**	**480**	**160**	3400	< 0.010
M018-E	2007 01 (Spring)		< 0.15	**36.0**	82.0	< 2.0	0.094 J	< 0.40	2.9	< 10.0	-	< 3.0	**15000**	< 0.20	6.2 J	15.0 J	0.46 J	< 5.0	< 5.0	< 4.8	10.0 J	< 47.0	**14000**	**720**	**1600**	**400**	**12000 J**	-
	2006 03 (Fall)		< 1.0	**37.0**	82.0	< 2.0	0.086 J	< 10.0	3.5	1.3 J	-	< 3.0	**14000 J**	< 0.20	4.4 J	15.0 J	1.1 J	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**13000**	**690 J**	**1600 J**	**350 J**	**12000 J**	-
	2006 01 (Spring)		0.17 J	**53.0**	73.0	0.72 J	< 5.0	0.76 J	3.5	< 10.0	-	< 3.0	**16000**	< 0.20	< 20.0	12.0 J	< 5.0	**3.7 J**	< 5.0	< 10.0	< 20.0	< 100	**18000 J**	**730 J**	**1800 J**	**330 J**	**12000 J**	-
	2005 02 (Summer)		0.46 J	6.8	90.0	< 2.0	< 5.0	1.4 J	4.5	8.6 J	-	< 3.0	**16000**	< 0.20	5.5 J	19.0 J	**150 J**	< 5.0	< 5.0	1.2 J	**64.0**	< 100	**13000**	**700**	**1700**	**370**	**12000**	-
	2004 04 (Winter)		0.19 J	**41.0**	78.0	< 2.0	< 5.0	1.2 J	4.3	5.5 J	-	0.21 J	**14000**	< 0.20	4.3 J	**25.0**	-	< 5.0	< 5.0	1.4 J	24.0	4.5 J	**14000**	**730**	**1700**	**400**	**15000**	-
	2004 02 (Summer)		< 1.0	< 1.0	87.0	0.17 J	< 5.0	< 10.0	3.9	< 10.0	-	1.6	**15000**	< 0.20	< 20.0	15.0 J	< 1.0	< 5.0	< 1.0	< 10.0	12.0 J	3.7 J	**15000**	**770**	**1900**	**440**	**14000**	-
	2003 04 (Winter)		< 25.0	**26.2 J**	59.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	**10900**	< 0.40	**13.7 J**	20.6	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**9710**	**719**	**1700**	**473**	**12000**	-
	2003 02 (Summer)		< 50.0	< 50.0	75.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	-	< 10.0	**14800 J**	< 0.40 UJ	< 50.0	20.0 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**14500**	**793**	**1800**	**454 J**	**9700**	-
	2002 04 (Winter)		0.15 J	**51.0 J**	82.0	< 2.0	< 5.0	< 10.0	4.0 J	7.9 J	-	0.48 J	**14000**	< 0.20	< 20.0 UJ	20.0 J	**95.0**	< 5.0	< 2.0	1.2 J	< 20.0	4.7 J	**16000**	**740**	**1700**	**370**	**12000**	-
	2002 02 (Summer)		0.12 J	**52.0**	73.0	< 2.0	< 5.0	< 10.0	3.5 J	< 10.0	< 10.0	0.063 J	**12000**	< 0.20	< 20.0	< 20.0	**110 J**	< 5.0	< 2.0	< 10.0	< 20.0	**1100**	**12000**	**780**	**1800**	**350**	**13000**	< 0.010
M019-A	2005 02 (Summer)		0.59 J	< 5.0	62.0	< 2.0	< 5.0	1.0 J	0.46 J	6.3 J	-	< 3.0	0.64 J	< 0.20	**20.0 J**	6.6 J	**18.0 J**	0.082 J	0.19 J	2.5 J	35.0	< 100	470	**320**	**880**	**270**	**6900**	-
	2005 01 (Spring)		0.46 J	< 5.0	33.0	< 2.0	< 5.0	< 10.0	0.52 J	**31.0**	-	< 3.0	< 10.0	< 0.20	**27.0**	6.4 J	< 5.0	< 5.0	< 5.0	3.4 J	20.0	< 100	< 100	**240**	**650**	**220**	**5600**	-
	2004 04 (Winter)		0.44 J	11.0	64.0	< 2.0	< 5.0	1.2 J	0.95 J	5.4 J	-	0.33 J	2.6 J	< 0.20	12.0 J	14.0 J	< 5.0	< 5.0	0.19 J	2.7 J	20.0	2.6 J	1600 J	**400**	**1200**	**360**	**8600**	-
	2004 02 (Summer)		< 1.0	< 1.0	52.0	< 2.0	< 5.0	< 10.0	0.86 J	< 10.0	-	0.13 J	< 10.0	< 0.20	**13.0 J**	< 20.0	< 1.0 J	< 5.0	< 1.0	6.3 J	< 20.0	< 100	< 100	**330**	**930**	**300**	**7800**	-
	2004 01 (Spring)		< 10.0	5.8 J	39.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	**49.8 J**	< 20.0	< 20.0	< 10.0 UJ	< 10.0	< 50.0	< 20.0	< 200	< 100	**295**	**824**	**335**	**7720**	-
	2003 04 (Winter)		< 5.0	< 50.0	43.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	**28.2 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	7.0 J	< 20.0	< 200	< 100	**318**	**880**	**389**	**8240**	-
	2003 03 (Fall)		< 5.0	< 50.0	67.2 J	< 4.0	< 5.0	< 10.0	< 10.0	2.2 J	-	< 10.0	< 10.0	< 0.40	**16.1 J**	6.1 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**431**	**1230**	**430**	**8110**	-

FWBZ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M019-A	2003 02 (Summer)		< 50.0	< 50.0	50.5 J	< 4.0	< 5.0	< 10.0	< 10.0	5.0 J	-	< 10.0	< 10.0	< 0.40 UJ	< 50.0	6.1 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	382	992	347 J	6870	-
	2003 01 (Spring)		0.29 J	5.1	37.0	< 2.0	< 5.0	1.2 J	< 10.0	5.4 J	-	< 3.0	< 10.0	< 0.20	26.0	6.1 J	< 5.0	< 5.0	< 1.0	3.8 J	< 20.0	3.7 J	360	240	710	220	6200	-
	2002 04 (Winter)		0.23 J	17.0 J	59.0 J	< 2.0	< 5.0	< 10.0 UJ	1.1 J	7.0 J	-	0.61 J	< 10.0	< 0.20	< 20.0 UJ	13.0 J	68.0	< 5.0	< 2.0	2.8 J	< 20.0	7.1 J	< 100 UJ	390	1100	320	8900	-
	2002 03 (Fall)		0.27 J	< 5.0	72.0	< 2.0	< 5.0	< 10.0 UJ	0.95 J	4.9 J	-	< 3.0	2.5 J	< 0.20	12.0 J	8.3 J	< 5.0	< 5.0 UJ	< 2.0	2.5 J	12.0 J	< 100	520 J	400	1100	330	9000	-
	2002 02 (Summer)		0.25 J	11.0	47.0	< 2.0	< 5.0	< 10.0	0.82 J	< 10.0	< 10.0	0.033 J	< 10.0	< 0.20	< 20.0	< 20.0	52.0 J	< 5.0	0.41 J	< 10.0	< 20.0	5.0 J	< 100	350	910	250	7300	< 0.010
M019-E	2007 01 (Spring)		0.53 J	5.8	64.0	< 2.0	0.21 J	< 0.77	4.8	< 10.0	-	3.7	7500	< 0.20	5.7 J	6.9 J	0.28 J	< 5.0	< 5.0	< 4.9	810	< 24.0	2700	370	2000	250	14000 J	-
	2006 03 (Fall)		< 1.0	5.7	72.0	< 2.0	0.24 J	< 10.0	5.0	< 10.0	-	< 3.0	8500 J	< 0.20	6.1 J	7.0 J	0.46 J	2.7 J	< 5.0	< 10.0	66.0 J	< 100	2500	410 J	1100 J	270 J	8200 J	-
	2006 01 (Spring)		0.36 J	8.7	62.0 J	< 2.0 UJ	< 5.0 UJ	2.0 J	4.7 J	< 10.0	-	< 3.0 UJ	8500	< 0.20	5.7 J	6.5 J	< 5.0	2.5 J	< 5.0	< 10.0	23.0 J	30.0 J	3100 J	440	1200	300	10000	-
	2005 02 (Summer)		0.33 J	13.0 J	76.0	< 2.0	< 25.0	0.70 J	5.4	< 50.0	-	< 3.0	9200	< 0.20	7.6 J	11.0 J	8.9 J	< 25.0	< 5.0	1.6 J	79.0 J	< 100	6000 J	440	1200	280	8000	-
	2004 04 (Winter)		3.2	14.0	66.0	< 2.0	< 5.0	1.1 J	3.7	4.4 J	-	0.25 J	9500	< 0.20	5.3 J	11.0 J	1.3 J	< 5.0	< 5.0	0.87 J	25.0	3.8 J	8500	460	1300	310	8200	-
	2004 02 (Summer)		< 1.0	< 1.0	65.0	< 2.0	< 5.0	< 10.0	4.8	< 10.0	-	0.13 J	8700	< 0.20	< 20.0	< 20.0	< 1.0 J	< 5.0	< 1.0	< 10.0	< 20.0	< 100	6200	440	1200	310	9300	-
	2003 04 (Winter)		< 5.0	< 50.0	52.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	7210	< 0.40	22.5 J	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	8260	351	996	344	8890	-
	2003 02 (Summer)		< 50.0	12.3 J	62.8 J	< 4.0	< 5.0	< 10.0	3.8 J	< 10.0	-	< 10.0	9340 J	< 0.40 UJ	5.5 J	5.8 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	8290	512	1300	345 J	7830	-
	2002 04 (Winter)		0.12 J	27.0 J	58.0 J	< 2.0	< 5.0	< 10.0 UJ	3.9 J	5.4 J	-	1.1 J	7800	< 0.20	< 20.0 UJ	11.0 J	82.0	< 5.0	< 2.0	1.1 J	< 20.0	6.7 J	8000 J	420	1100	250	8600	-
	2002 02 (Summer)		0.25 J	< 5.0	62.0	< 2.0	< 5.0	14.0	4.8 J	7.8 J	< 10.0	< 3.0 UJ	8100	0.042 J	< 20.0	9.6 J	-	1.0 J	< 2.0	3.9 J	14.0 J	680	6200	390	1100	250	8200	< 0.010
M020-A	2007 01 (Spring)		2.1	4.4 J	260	< 2.0	0.81 J	< 0.98	0.18 J	0.59 J	-	< 0.19	210	< 0.20	6.5 J	1.2 J	< 5.0	< 5.0	< 5.0	< 6.1	2.0 J	< 37.0	530	300	860	230	7300	-
	2006 03 (Fall)		< 1.0	3.9 J	420	< 2.0	0.27 J	< 10.0	0.60 J	8.8 J	-	< 3.0	360	0.047 J	6.2 J	2.9 J	0.58 J	2.2 J	< 5.0	< 10.0	9.8 J	< 100	600	360 J	900 J	260 J	6800 J	-
	2006 01 (Spring)		1.9	26.0	8.9 J	< 2.0	0.66 J	7.2 J	0.72 J	18.0	-	< 3.0	16.0	< 0.20	19.0 J	6.5 J	< 5.0	< 5.0	< 5.0	33.0	4.5 J	< 100	100 J	14.0 J	34.0 J	39.0 J	940 J	-
	2005 02 (Summer)		0.84 J	9.7 J	340	< 2.0	< 25.0	0.97 J	0.72 J	2.1 J	-	< 3.0	270	< 0.20	8.9 J	5.4 J	6.2 J	< 25.0	< 5.0	3.8 J	48.0 J	< 100	2100 J	390	970	300	6300	-
	2005 01 (Spring)		2.5	24.0	29.0	< 2.0	1.9 J	3.7 J	0.30 J	13.0	-	< 3.0	35.0	< 0.20	< 20.0	4.7 J	< 5.0	< 5.0	< 5.0	20.0	9.9 J	< 100	< 100	57.0	150	76.0	2200	-
	2004 04 (Winter)		0.78 J	13.0	370	< 2.0	0.90 J	6.2 J	1.0	4.6 J	-	0.13 J	350	< 0.20	6.4 J	11.0 J	< 5.0	< 5.0	< 5.0	4.5 J	17.0 J	2.7 J	2300 J	440	970	270	7700	-
	2004 02 (Summer)		1.3	12.0	170	< 1.0	< 1.0	3.1 J	0.79 J	4.1	-	0.45 J	140	< 0.20	8.9	6.2	18.0 J	< 5.0	< 1.0	9.9 J	19.0 J	6.1 J	140 J	230	500	190	4700	-
	2004 01 (Spring)		< 10.0	11.5 J	66.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	128	< 0.40	19.2 J	< 20.0	< 20.0	< 10.0 UJ	< 10.0	12.5 J	< 20.0	< 200	52.2 J	119	296	140	3480	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	348	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	306	-	11.0 J	14.1 J	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	381	458 J	413	1310	405	9780	-
	2003 03 (Fall)		< 5.0	< 50.0	425	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	454	< 0.40	7.3 J	4.8 J	< 20.0	< 10.0	< 50.0	9.6 J	< 20.0	< 200	257	490	1090	358	7240	-
	2003 02 (Summer)		< 50.0	9.1 J	416	< 4.0	8.6	< 10.0	< 10.0	2.9 J	-	< 10.0	316	< 0.40 UJ	7.6 J	5.0 J	< 20.0	< 10.0	< 50.0	6.9 J	< 20.0	< 200	115 J	501	885	292	5880	-
	2003 01 (Spring)		2.0	14.0	140 J	< 2.0	< 5.0	2.4 J	< 10.0	5.4 J	-	< 3.0	110	< 0.20	8.5 J	4.6 J	16.0 J	< 5.0	< 1.0	11.0	< 20.0	3.8 J	460	170 J	350	130 J	3000	-
	2002 04 (Winter)		0.58 J	14.0 J	460 J	< 2.0	< 5.0	< 10.0 UJ	0.87 J	5.1 J	-	0.42 J	490	< 0.20	< 20.0 UJ	6.2 J	53.0	< 5.0	< 2.0	8.0 J	< 20.0	5.3 J	420 J	530	1100	300	8600	-
	2002 03 (Fall)		0.32 J	< 5.3	350	< 2.0	< 5.0	< 10.0	0.91 J	< 10.0	-	< 3.0	190	< 0.20	5.8 J	4.2 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	800	480	890	250	6400	-

FWBZ

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M020-A	2002 02 (Summer)		0.55 J	10.0	320	< 2.0	< 5.0	< 10.0	0.76 J	< 10.0	< 10.0	0.051 J	240	< 0.20	< 20.0	< 20.0	**35.0 J**	< 5.0	< 2.0	11.0	< 20.0	700	53.0 J	400	850	230	6400	< 0.010
M020-E	2007 01 (Spring)		< 0.23	12.0	210	< 2.0	0.11 J	< 0.88	2.0	1.6 J	-	< 0.18	**10000**	0.13 J	2.7 J	1.5 J	0.53 J	< 5.0	< 5.0	< 3.5	9.9 J	< 55.0	**42000**	480	1600	290	11000	-
	2006 03 (Fall)		< 1.0	15.0	210	< 2.0	< 5.0	< 10.0	1.8	< 10.0	-	< 3.0	**8800**	< 0.20	2.9 J	0.56 J	0.99 J	4.1 J	< 5.0	< 10.0	< 20.0	< 100	**40000**	460 J	1400 J	280 J	9600 J	-
	2006 01 (Spring)		0.67 J	22.0	200	0.69 J	< 5.0	< 10.0	1.6	< 10.0	-	< 3.0	**9500**	**0.23**	1.1 J	0.92 J	6.1	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**41000**	460	1600	300	11000	-
	2005 02 (Summer)		0.42 J	< 5.0	190	< 2.0	< 5.0	1.2 J	2.8	7.9 J	-	< 3.0	**9700**	< 0.20	3.3 J	4.4 J	**150 J**	< 5.0	< 5.0	2.1 J	**60.0**	< 100	**40000**	420	1400	280	10000	-
	2005 01 (Spring)		0.36 J	17.0	170	< 2.0	1.0 J	< 10.0	2.9	< 10.0	-	< 3.0	**9400**	< 0.20	< 20.0	2.2 J	< 5.0	< 5.0	< 5.0	1.7 J	8.6 J	< 100	**40000**	440	1500	290	9700	-
	2004 04 (Winter)		0.39 J	18.0	170	< 2.0	< 5.0	1.4 J	3.1	3.9 J	-	0.19 J	**9900**	< 0.20	2.9 J	9.1 J	< 5.0	< 5.0	< 5.0	2.2 J	25.0	4.2 J	**45000**	440	1500	300	9400	-
	2004 02 (Summer)		< 1.0	17.0	180	< 2.0	< 5.0	< 10.0	2.9	< 10.0	-	0.13 J	**9300**	< 0.20	< 20.0	< 20.0	< 5.0 J	< 5.0	0.45 J	< 10.0	< 20.0	< 100	**36000**	470	1500	310	11000	-
	2004 01 (Spring)		< 10.0	8.9 J	159	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**8460 J**	< 1.0	**23.4 J**	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**36500 J**	**387 J**	1560	338	10600	-
	2003 04 (Winter)		< 5.0 UJ	8.8 J	153	< 4.0	< 5.0	< 10.0 UJ	**43.7 J**	< 10.0	-	< 10.0 UJ	**7840**	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	7.4 J	< 200	**35500 J**	372	1690	393	11400	-
	2003 03 (Fall)		< 5.0	< 50.0	219	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**11800**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**48800**	572	1890	448	10100	-
	2003 02 (Summer)		< 50.0	18.1 J	223	< 4.0	< 5.0	< 10.0	2.6 J	< 10.0	-	< 10.0	**11200**	< 0.40 UJ	< 50.0	1.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**48600 J**	560	1840	426	9560	-
	2003 01 (Spring)		< 1.0	< 5.0	180 J	< 2.0 UJ	< 5.0	< 10.0	2.2 J	10.0	-	< 3.0	**9800**	< 0.20	< 200	6.1 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	5.3 J	**41000 J**	430 J	1500 J	260 J	10000 J	-
	2002 04 (Winter)		< 50.0	< 5.0	180	< 2.0	< 5.0	< 10.0	2.8 J	13.0	-	< 3.0	**8200**	< 0.20	3.2 J	< 400	< 5.0	< 5.0	< 2.0	3.5 J	< 20.0	< 100	**34000**	380	1300	260	9000	-
	2002 03 (Fall)		0.16 J	< 5.0	170	< 2.0	< 5.0	< 10.0	2.4 J	13.0	-	< 3.0	**8200**	< 0.20	3.4 J	11.0 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	**32000**	400	1300	270	9300	-
	2002 02 (Summer)		0.14 J	< 5.0	130	< 2.0	< 5.0	9.3 J	2.6 J	< 10.0	< 10.0 UJ	0.030 J	**8200**	< 0.20	< 20.0	14.0 J	-	< 5.0 UJ	< 2.0	9.4 J	< 20.0	3.3 J	**27000**	430	1500	270	10000	< 0.010
M021-A	2005 02 (Summer)		0.67 J	3.9 J	250	< 2.0	< 5.0	1.6 J	0.35 J	1.3 J	-	< 3.0	110	< 0.20	1.6 J	1.9 J	8.3 J	< 5.0	0.62 J	3.7 J	< 20.0	< 100	380	**220**	430	160	4000	-
	2005 01 (Spring)		0.83 J	< 5.0	160	< 2.0	< 5.0	1.8 J	0.43 J	7.9 J	-	< 3.0	27.0	< 0.20	< 20.0	5.2 J	< 5.0	< 5.0	< 5.0	8.8 J	8.6 J	< 100	< 100	150	140	64.0	1300	-
	2004 04 (Winter)		0.72 J	9.5	380	< 2.0	< 5.0 UJ	2.0 J	0.76 J	3.4 J	-	0.12 J	330 J	< 0.20	0.62 J	7.6 J	**42.0**	< 5.0	< 5.0	2.0 J	15.0 J	1.9 J	1500	**330**	**820**	**250**	**6900**	-
	2004 02 (Summer)		0.94 J	7.0	200	< 2.0	< 5.0	< 10.0	0.79 J	< 10.0	-	0.082 J	120	< 0.20	< 20.0	< 20.0	5.6 J	< 5.0	< 1.0	5.5 J	< 20.0	< 100	66.0 J	**230**	**560**	**200**	**4800**	-
	2004 01 (Spring)		< 10.0	8.5 J	91.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	110	< 0.40	12.1 J	< 20.0	< 20.0	< 10.0 UJ	< 10.0	9.1 J	< 20.0	< 200	152	120	239	115	2220	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	364	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	426	-	11.0 J	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	111 J	**396**	**819**	**334**	**7670**	-
	2003 03 (Fall)		< 25.0	15.3 J	431	< 4.0	< 5.0	1.2 J	< 10.0	< 10.0	-	< 10.0	194	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**373**	**925**	**332 J**	**6730**	-
	2003 02 (Summer)		< 50.0	< 50.0	211	< 4.0	< 5.0	< 10.0	1.5 J	< 10.0	-	< 10.0	157	< 0.40 UJ	< 50.0	1.5 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**241**	**528**	**181**	**4160**	-
	2003 01 (Spring)		1.4	8.4	160 J	< 2.0	< 5.0	2.0 J	< 10.0	1.8 J	-	< 3.0	140	< 0.20	1.0 J	3.9 J	**16.0 J**	< 5.0	< 1.0	4.6 J	< 20.0	330 J	770	**200 J**	**380 J**	140 J	3100 J	-
	2002 04 (Winter)		0.93 J	9.5	110	< 2.0	< 5.0	< 10.0	0.68 J	6.3 J	-	0.081 J	82.0	< 0.20	8.6 J	5.8 J	**10.0**	< 5.0	< 2.0	7.5 J	< 20.0	3.7 J	740	120	160	77.0	1400	-
	2002 03 (Fall)		< 50.0	< 5.0	280	< 2.0	< 5.0	< 10.0	0.84 J	< 10.0	-	< 3.0	97.0	< 0.20	0.49 J	8.0 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	960	**350**	**740**	**240**	**6000**	-
	2002 02 (Summer)		0.29 J	9.8	240	< 2.0	< 5.0	< 10.0	0.63 J	< 10.0	< 10.0	< 3.0	62.0	0.061 J	< 20.0	< 20.0	**35.0**	< 5.0	0.44 J	< 10.0	< 20.0	5.5 J	< 100	**250**	**660**	**220**	**5700**	< 0.010
M021-E	2007 01 (Spring)		< 0.43	12.0	340	0.25 J	0.38 J	< 1.1	2.1	< 10.0	-	< 1.7	**3100**	< 0.20	2.0 J	1.7 J	0.43 J	0.20 J	0.58 J	< 2.4	< 20.0	35.0 J	**22000**	**250**	**910**	**220**	**7100**	-

FWBZ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M021-E	2006 03 (Fall)	< 1.0	13.0	340	< 2.0	< 5.0	< 10.0	1.9	< 10.0	-	< 3.0	**3100 J**	< 0.20	1.5 J	1.3 J	0.45 J	1.8 J	< 5.0	< 10.0	< 20.0	< 100	**24000**	**250 J**	**900 J**	**230 J**	**7500 J**	-
		2006 01 (Spring)	0.41 J	15.0	320	0.59 J	0.84 J	< 10.0	1.8	< 10.0	-	0.13 J	**3100**	0.12 J	2.4 J	1.6 J	2.6 J	< 5.0	< 5.0	< 10.0	**46.0**	< 100	**25000**	**260**	**920**	**230**	**7700**	-
		2005 02 (Summer)	0.17 J	3.4 J	320	< 2.0	< 5.0	1.1 J	2.6	3.1 J	-	< 3.0	**3500**	< 0.20	1.5 J	2.9 J	**58.0 J**	< 5.0	0.13 J	1.6 J	-	< 100	**27000**	**240**	**880**	**220**	**6900**	-
		2005 01 (Spring)	0.36 J	21.0	270	< 2.0	< 5.0	< 10.0	2.6	< 10.0	-	< 3.0	**3300**	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	0.88 J	12.0 J	< 100	**27000**	**250**	**910**	**220**	**7500**	-
		2004 04 (Winter)	0.70 J	14.0	350	< 2.0	< 5.0 UJ	1.5 J	3.1	3.0 J	-	0.33 J	**4100**	< 0.20	1.7 J	7.7 J	< 5.0	< 5.0	< 5.0	2.0 J	19.0 J	5.8 J	**33000 J**	**270**	**1000**	**250**	**8400**	-
		2004 02 (Summer)	< 1.0	3.0	340	< 2.0	< 5.0	< 10.0	3.3	< 10.0	-	0.62 J	**3800**	< 0.20	< 20.0	< 20.0	< 1.0 J	< 5.0	< 1.0	6.6 J	< 20.0	< 100	**31000**	**260**	**970**	**240**	**8100**	-
		2004 01 (Spring)	< 10.0	**20.9 J**	317	< 4.0	< 5.0	< 10.0	5.1 J	< 10.0	-	< 10.0	**3780 J**	< 1.0	**24.1 J**	< 20.0	< 20.0	< 10.0	< 10.0	6.0 J	< 20.0	< 200	**33300 J**	**249 J**	**1050**	**272**	**8530**	-
		2003 04 (Winter)	< 5.0 UJ	10.9 J	279	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	**3250**	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	**26700 J**	**218**	**833**	**283**	**8030**	-
		2003 03 (Fall)	< 5.0	< 50.0	360	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**4600**	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**33700**	**312**	**1130**	**298**	**7540**	-
		2003 02 (Summer)	< 50.0	< 50.0	328	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**4270**	< 0.40 UJ	< 50.0	3.9 J	**9.0 J**	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**35200 J**	**272**	**983**	**240**	**6740**	-
		2003 01 (Spring)	0.52 J	< 5.0	350 J	< 2.0	< 5.0	1.6 J	2.8 J	7.3 J	-	< 3.0	**3900**	< 0.20	< 200	8.5 J	< 5.0	< 5.0	< 1.3	< 10.0	< 20.0	3.0 J	**31000 J**	**240 J**	**890 J**	**220 J**	**7400**	-
		2002 04 (Winter)	< 50.0	< 5.0	280	< 2.0	< 5.0	2.5 J	3.3 J	11.0	-	0.13 J	**3600**	< 0.20	1.5 J	11.0 J	**63.0**	< 5.0	< 2.0	3.9 J	< 20.0	4.1 J	**27000**	**220**	**810**	**200**	**6600**	-
		2002 03 (Fall)	< 50.0	< 5.0	300	< 2.0	< 5.0	< 10.0	2.8 J	12.0	-	< 3.0	**3700**	< 0.20	1.9 J	11.0 J	< 5.0 UJ	< 5.0	< 2.0	0.96 J	< 70.0	< 100	**27000**	**250**	**920**	**220**	**7500**	-
		2002 02 (Summer)	0.12 J	< 5.0	260	1.5 J	< 5.0	< 10.0	2.9 J	< 10.0	< 10.0 UJ	0.029 J	**4200**	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	8.8 J	9.2 J	3.2 J	**22000**	**270**	**980**	**220**	**8200**	< 0.010
	M022-A	2005 02 (Summer)	0.77 J	0.69 J	**760**	< 2.0	< 5.0	7.1 J	1.6	2.0 J	-	< 3.0	440	< 0.20	< 20.0	3.2 J	**15.0 J**	< 5.0	< 5.0	11.0	< 20.0	< 100	580 J	**300**	**500**	**170**	**4300**	-
		2005 01 (Spring)	1.6	< 5.0	**690**	< 2.0	< 5.0	3.8 J	1.6	< 10.0	-	< 3.0	160	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	8.5 J	13.0 J	< 100	< 100	**350**	**570**	**170**	**4500**	-
		2004 04 (Winter)	1.8	4.4 J	**810**	< 2.0	< 5.0	6.7 J	1.9	2.2 J	-	0.20 J	230	< 0.20	0.23 J	6.8 J	< 5.0	< 5.0	0.22 J	9.5 J	16.0 J	6.2 J	1400 J	**370**	**640**	**190**	**4700**	-
		2004 02 (Summer)	2.3	2.2	**660**	< 2.0	< 5.0	< 10.0	2.1	< 10.0	-	0.061 J	120	< 0.20	< 20.0	< 20.0	< 1.0 J	< 5.0	< 1.0	14.0	< 20.0	< 100	< 100	**330**	**560**	**180**	**5000**	-
		2004 01 (Spring)	< 10.0	< 50.0	**664**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	128	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0 UJ	< 10.0	8.7 J	< 20.0	< 200	< 100	**347**	**607**	**208**	**5230**	-
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	**707**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	113	-	**32.0 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	11.5 J	< 20.0	< 200	< 100 UJ	**357**	**634**	**241**	**5940**	-
		2003 03 (Fall)	< 5.0	< 50.0	**857**	< 4.0	< 5.0	6.2 J	< 10.0	< 10.0	-	< 10.0	201	< 0.40	< 50.0	2.0 J	< 20.0	< 10.0	< 25.0	8.6 J	< 20.0	< 200	< 100	**426**	**757**	**240**	**5510**	-
		2003 02 (Summer)	< 50.0	< 50.0	**899**	< 4.0	< 5.0	6.1 J	2.2 J	< 10.0	-	< 10.0	177	< 0.40 UJ	< 50.0	1.8 J	< 20.0	< 10.0	< 50.0	8.8 J	< 20.0	< 200	< 100	**455**	**801**	**252**	**5820**	-
		2003 01 (Spring)	2.4	< 5.0	**760 J**	< 2.0	< 5.0	5.7 J	1.7 J	2.6 J	-	< 3.0	140	< 0.20	< 200	4.1 J	< 5.0	< 5.0	< 1.0	9.7 J	< 20.0	5.1 J	890	**360 J**	**630 J**	**170 J**	**5400**	-
		2002 04 (Winter)	1.4 J	8.5	**840**	< 2.0	< 5.0	5.3 J	1.9 J	3.0 J	-	< 3.0	120	< 0.20	< 20.0	5.6 J	**9.8**	< 5.0	< 2.0	8.0 J	< 20.0	< 100	1700	**440**	**690**	**200**	**5500**	-
		2002 03 (Fall)	1.5 J	< 5.0	**710**	< 2.0	< 5.0	5.6 J	1.8 J	< 10.0	-	< 3.0	140	< 0.20	< 20.0	6.2 J	< 5.0 UJ	< 5.0	< 2.0	7.3 J	< 20.0	< 100	950	**330**	**610**	**180**	**5200**	-
		2002 02 (Summer)	1.2 J	8.6	**750**	< 2.0	< 5.0	< 10.0	1.8 J	< 10.0	< 10.0	0.091 J	150	0.12 J	< 20.0	< 20.0	**39.0 J**	< 5.0	0.84 J	9.9 J	< 20.0	8.7 J	110	**350**	**620**	**180**	**5200**	0.010 J
	M022-E	2007 01 (Spring)	< 0.20	7.3	530	< 2.0	0.15 J	< 0.98	16.0	1.4 J	-	< 3.0	**4700**	< 0.058	5.0 J	13.0 J	< 5.0 UJ	< 5.0	< 5.0	4.7 J	12.0 J	< 17.0	**18000**	**390**	**660**	**180**	**4700**	-
		2006 03 (Fall)	< 1.0	5.6	**590**	< 2.0	0.061 J	< 10.0	14.0	4.8 J	-	< 3.0	**4300 J**	0.073 J	4.6 J	10.0 J	0.31 J	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**21000**	**240 J**	**860 J**	**210 J**	**7300 J**	-
		2006 01 (Spring)	0.31 J	3.6 J	430 J	< 2.0 UJ	< 5.0 UJ	< 10.0 UJ	12.0 J	< 10.0	-	< 3.0 UJ	**4100**	**0.31**	3.5 J	8.0 J	< 5.0	< 5.0	8.8	< 10.0	23.0 J	< 100	**17000 J**	**260**	**970**	**240**	**8700**	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M022-E	2005 02 (Summer)		0.23 J	< 5.0	550	< 2.0	< 5.0	1.0 J	22.0	3.2 J	-	< 3.0	4300	< 0.20	6.8 J	18.0 J	58.0 J	< 5.0	< 5.0	0.76 J	39.0	< 100	19000	240	840	210	7400	-
	2005 01 (Spring)		0.36 J	< 5.0	460	< 2.0	< 5.0	< 10.0	20.0	< 10.0	-	< 3.0	4100	< 0.20	< 20.0	16.0 J	< 5.0	< 5.0	< 5.0	< 10.0	16.0 J	< 100	16000	230	830	200	6600	-
	2004 04 (Winter)		1.2	16.0	540	< 2.0	< 5.0 UJ	1.2 J	17.0	2.6 J	-	0.13 J	4400	0.078 J	5.5 J	18.0 J	2.4 J	< 5.0	0.41 J	1.3 J	18.0 J	3.8 J	22000 J	270	920	230	7500	-
	2004 02 (Summer)		0.47 J	< 1.0	600	< 1.0	< 1.0	1.9	23.0	14.0	-	0.60 J	4300	< 0.20	7.3	27.0	< 1.0 J	< 1.0	< 1.0	6.1 J	< 1.0	< 50.0	21000	290	960	220	8400	-
	2004 01 (Spring)		< 5.0	6.9 J	481	< 4.0	< 5.0	< 10.0	16.0	< 10.0	-	< 10.0	3660 J	< 1.0	15.2 J	10.4 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	18400 J	235 J	827	227	7540	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	524	< 4.0	< 5.0	< 10.0 UJ	< 20.7 UJ	< 10.0	-	< 10.0 UJ	3560	-	16.4 J	18.3 J	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	19000 J	231	814	275	2720	-
	2003 03 (Fall)		< 25.0	15.8 J	672	< 4.0	0.88 J	< 10.0	26.1	< 10.0	-	< 10.0	5130	< 0.40	8.4 J	20.7	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	25000	313	1070	278 J	7570	-
	2003 02 (Summer)		< 50.0	7.5 J	637	< 4.0	< 5.0	< 10.0	25.4	< 10.0	-	< 10.0	4780	< 0.40 UJ	8.7 J	19.7 J	< 20.0	< 10.0	< 50.0	< 50.0	1.9 J	< 200	23500 J	296	1000	250	6920	-
	2003 01 (Spring)		1.9	< 5.0	560 J	< 2.0	< 5.0	1.5 J	21.0	7.5 J	-	< 3.0	4100 J	< 0.20	5.9 J	22.0	< 5.0	< 5.0	< 1.8	< 10.0	< 20.0	14.0 J	20000	230 J	820 J	180 J	7200	-
	2002 04 (Winter)		< 50.0	< 5.0	420	< 2.0	2.9 J	< 10.0	13.0	8.7 J	-	< 3.0	3300	< 0.20	< 20.0	40.0	< 5.0	< 5.0	< 2.0	< 10.0	34.0 J	< 100	13000	290	910	220	7700	-
	2002 03 (Fall)		< 50.0	< 5.0	550	< 2.0	< 5.0	< 10.0	16.0	< 10.0	-	< 3.0	3500	< 0.20	6.3 J	21.0	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 21.0	< 100	20000	240	810	180	7000	-
	2002 02 (Summer)		0.32 J	< 5.0	590	< 2.0	< 5.0	< 10.0	26.0	< 10.0	< 10.0	0.23 J	4000	< 0.20	< 20.0	22.0	-	< 5.0 UJ	< 2.0	7.1 J	11.0 J	5.6 J	19000	250	870	190	7400	< 0.010
M023-A	2007 01 (Spring)		20.0	3.4 J	260	0.28 J	0.080 J	3.9 J	0.29 J	1.4 J	-	< 3.0	23.0	< 0.20	0.78 J	1.5 J	1.2 J	< 5.0	0.51 J	5.3 J	< 3.3	< 21.0	54.0 J	380	650	190	5200	-
	2006 03 (Fall)		19.0	1.9 J	420	< 2.0	0.44 J	3.4 J	0.096 J	7.2 J	-	5.1	44.0	< 0.20	< 20.0	1.6 J	0.64 J	2.2 J	< 5.0	< 10.0	1000	< 22.0	260	430 J	910 J	260 J	7100 J	-
	2006 01 (Spring)		2.2	< 5.0	110	0.48 J	< 5.0	3.6 J	< 1.0	2.3 J	-	< 3.0	31.0	< 0.20	2.5 J	0.98 J	< 5.0	2.9 J	4.6 J	< 10.0	23.0	< 100	37.0 J	110	170	66.0	1800	-
	2005 02 (Summer)		20.0	< 5.0	290	< 2.0	< 5.0	7.0 J	1.1	5.1 J	-	3.6	33.0 J	< 0.20	1.0 J	8.0 J	64.0	0.086 J	< 5.0	5.2 J	88.0	940 J	2900	360	780	230	4900	-
	2005 01 (Spring)		6.2	< 5.0	98.0	< 2.0	< 5.0	2.1 J	0.31 J	< 10.0	-	< 3.0	30.0	< 0.20	< 20.0	2.5 J	< 5.0	< 5.0	< 5.0	3.0 J	13.0 J	< 100	< 100	110	200	71.0	1900	-
	2004 04 (Winter)		21.0	9.9	230	< 2.0	< 5.0 UJ	2.3 J	0.66 J	3.4 J	-	0.15 J	35.0	< 0.20	0.91 J	5.0 J	22.0	< 5.0	< 5.0	1.9 J	15.0 J	5.3 J	1400	360	770	240	7500	-
	2004 02 (Summer)		42.0	8.3	270	< 2.0	< 5.0	< 10.0	0.59 J	< 10.0	-	0.11 J	19.0	< 0.20	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	4.4 J	< 100	390	820	240	6300	-
	2004 01 (Spring)		67.1	< 50.0	179	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	37.6	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	6.1 J	< 20.0	< 200	< 100	224	428	159	3940	-
	2003 04 (Winter)		5.6 J	< 50.0 UJ	150	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	30.8	-	12.8 J	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	< 100 UJ	280	594	277	6550	-
	2003 03 (Fall)		30.6 J	< 50.0 UJ	302	< 4.0	< 5.0	2.3 J	< 10.0	1.3 J	-	< 10.0	38.5	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	456	1070	362 J	7280	-
	2003 02 (Summer)		< 73.3	< 50.0 UJ	296	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	49.0	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	446	962	303	6640	-
	2003 01 (Spring)		26.0	4.8 J	< 240	0.37 J	< 5.0	2.3 J	< 10.0	4.2 J	-	< 3.0	54.0	< 0.20	1.7 J	2.7 J	13.0	< 5.0	< 1.0	2.5 J	< 20.0	10.0 J	510	320	700	200	5600	-
	2002 04 (Winter)		26.0 J	10.0	190	< 2.0	< 5.0	< 10.0	0.70 J	4.7 J	-	0.43 J	58.0	< 0.20	1.7 J	4.7 J	< 5.0 UJ	< 5.0	< 2.0	1.1 J	< 20.0	7.6 J	1100	370	760	230	6900	-
	2002 03 (Fall)		38.0 J	< 5.0	340	< 2.0	< 5.0	3.4 J	1.0 J	3.2 J	-	0.096 J	45.0	< 0.20	0.54 J	8.2 J	< 5.0 UJ	< 5.0	< 2.0	1.3 J	< 20.0	< 100	1400	470	990	270	8200	-
	2002 02 (Summer)		5.6 J	< 5.0	410	< 2.0	< 5.0	< 10.0	1.1 J	5.5 J	< 10.0	< 3.0 UJ	43.0	< 0.20	0.82 J	5.0 J	-	< 5.0	< 2.0	6.3 J	< 20.0	9.2 J	1800	400	750	210	6000	< 0.010
M023-E	2007 01 (Spring)		< 0.35	13.0	660	< 2.0	0.68 J	< 1.0	1.4	1.9 J	-	< 3.0	830	< 0.091	1.5 J	2.9 J	< 5.0 UJ	0.085 J	< 5.0	3.9 J	17.0 J	< 17.0	9200	150	460	120	3800	-
	2006 03 (Fall)		< 1.0	22.0	1300	< 2.0	< 5.0	< 10.0	2.6	2.3 J	-	< 3.0	1600	< 0.20	< 20.0	< 20.0	0.49 J	< 5.0	< 5.0	< 10.0	< 20.0	< 100	28000	180	740 J	170	6700 J	-

FWBZ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M023-E	2006 01 (Spring)		0.28 J	8.4	**750 J**	< 2.0 UJ	< 5.0 UJ	< 10.0 UJ	3.0 J	< 10.0	-	< 3.0 UJ	1700	< 0.20	< 20.0	9.8 J	< 5.0	3.6 J	**15.0**	< 10.0	27.0 J	< 100	**12000 J**	280	570	110	4500	-
	2005 02 (Summer)		0.40 J	**27.0**	**1100**	< 2.0	< 5.0	2.1 J	3.3	4.8 J	-	< 3.0	1500	< 0.20	0.87 J	4.4 J	**77.0 J**	< 5.0	< 5.0	2.7 J	**44.0**	< 100	**30000**	170	810	200	6900	-
	2005 01 (Spring)		0.40 J	19.0	**650**	< 2.0	< 5.0	< 10.0	2.9	< 10.0	-	< 3.0	**1800**	< 0.20	< 20.0	6.8 J	< 5.0	< 5.0	< 6.1	2.5 J	23.0	< 100	**8200**	170	680	160	5200	-
	2004 04 (Winter)		0.86 J	**51.0**	**1300**	< 2.0	< 5.0 UJ	1.8 J	3.8	2.3 J	-	0.11 J	900 J	< 0.20	1.1 J	8.0 J	**35.0**	< 5.0	< 5.0	1.9 J	16.0 J	3.4 J	**34000 J**	190	970	240	8100	-
	2004 02 (Summer)		0.31 J	< 1.0	**1200**	< 1.0	< 1.0	2.6 J	4.7	13.0	-	0.50 J	730	< 0.20	1.1 J	14.0	< 1.0 J	< 5.0	< 1.0	2.0 J	< 20.0	3.1 J	**31000 J**	180	950	250	8900	-
	2004 01 (Spring)		< 5.0	**48.5 J**	**959**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	678 J	< 1.6 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**29100 J**	153 J	838	248	8330	-
	2003 04 (Winter)		< 5.0	**43.1 J**	**1050**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	648	< 0.40	**24.5 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	5.5 J	< 20.0	< 200	**28800**	153	843	290	8950	-
	2003 03 (Fall)		< 5.0 UJ	**58.3 J**	**1440**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	1200	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**34700**	**213**	1060	287 J	7700	-
	2003 02 (Summer)		< 50.0	< 64.4 UJ	**1280**	< 4.0	< 5.0 UJ	< 10.0	< 10.0	< 10.0	-	< 10.0	824	< 0.40 UJ	< 50.0	5.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**36000 J**	204	1020	268	7500	-
	2003 01 (Spring)		0.35 J	< 5.0	**1100**	< 2.0	< 5.0	2.5 J	4.4 J	7.5 J	-	< 3.0	820	< 0.28	< 200	11.0 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	4.5 J	**29000**	150	**840**	**190**	**7300**	-
	2002 04 (Winter)		< 50.0	< 5.0	**1100**	< 2.0	< 5.0	3.3 J	4.4 J	12.0	-	0.13 J	740	< 0.20	0.83 J	14.0 J	< 5.0	< 5.0	< 2.0	4.1 J	< 20.0	< 100	**32000**	**160**	**850**	**210**	**7700**	-
	2002 03 (Fall)		0.25 J	< 5.0	**1000**	< 2.0	< 5.0	1.1 J	3.3 J	10.0	-	0.045 J	1300	< 0.20	1.0 J	13.0 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**15000**	**180**	**890**	**210**	**8000**	-
	2002 02 (Summer)		0.19 J	< 5.0	**1100**	< 2.0	< 5.0	< 10.0	3.7 J	< 10.0	< 10.0	0.053 J	860	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	8.8 J	11.0 J	6.9 J	**29000**	**180**	**930**	**200**	**8600**	< 0.010
M024-A	2007 01 (Spring)		< 0.61	< 5.0	**1100**	< 2.0	< 5.0	3.8 J	2.3	< 10.0	-	< 1.7	410	< 0.088	< 0.14	4.3 J	< 5.0	< 5.0	< 5.0	4.4 J	22.0	< 21.0	**13000**	110 J	140	65.0	350	-
	2006 03 (Fall)		< 1.0	1.4 J	**940**	< 2.0	< 5.0	4.0 J	2.2	< 10.0	-	< 3.0	370	< 0.20	< 20.0	4.3 J	< 5.0	< 5.0	< 5.0	< 10.0	17.0 J	< 100	**11000**	99.0	190	66.0	380 J	-
	2006 01 (Spring)		0.28 J	2.9 J	**700 J**	< 2.0 UJ	< 5.0 UJ	2.5 J	1.9 J	< 10.0	-	< 3.0 UJ	380	0.12 J	< 20.0	< 20.0 UJ	< 5.0	2.9 J	12.0	< 10.0	14.0 J	< 100	**15000 J**	140	96.0	50.0	350	-
	2005 02 (Summer)		4.0	< 5.0	**950**	< 2.0	< 5.0	**13.0**	2.8	1.4 J	-	< 3.0	420	< 0.20	0.46 J	**25.0**	7.9	< 5.0	< 5.0	< 10.0	23.0	9.4 J	**11000**	95.0	170	63.0	410	-
	2005 01 (Spring)		0.67 J	< 5.0	**620**	< 2.0	< 5.0	3.1 J	2.1	< 10.0	-	< 3.0	360	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 5.0	< 10.0	12.0 J	< 100	**15000**	140	62.0	41.0	330	-
	2004 04 (Winter)		0.92 J	2.4 J	**650**	< 2.0	< 5.0	4.4 J	1.5	0.94 J	-	0.40 J	600	< 0.20	< 20.0	4.1 J	< 5.0	< 5.0	< 5.0	2.5 J	14.0 J	12.0 J	**11000**	110	120	49.0	530	-
	2004 02 (Summer)		1.7	3.6 J	**1100**	< 2.0	< 5.0	< 10.0	2.7	< 10.0	-	0.22 J	450	< 0.20	< 20.0	< 20.0	2.2 J	< 5.0	0.72 J	< 10.0	< 20.0	13.0 J	**14000**	120	180	74.0	450	-
	2004 01 (Spring)		2.1 J	< 50.0	**965**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	414	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0 UJ	< 10.0	< 50.0	< 20.0	< 200	**14500**	117	183	70.5 J	452	-
	2003 04 (Winter)		< 5.0	< 50.0	507	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	452	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	**8040**	82.3	90.2	45.5	479	-
	2003 03 (Fall)		< 5.0	8.6 J	461	< 4.0	< 5.0	5.6 J	2.2 J	< 10.0	-	< 10.0	489	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 5.0	3.4 J	< 20.0	< 200	**7800**	84.0	102	38.3 J	397	-
	2003 02 (Summer)		< 50.0	< 50.0	**1000**	< 4.0	< 5.0	3.0 J	< 10.0	< 10.0	-	< 10.0	455	< 0.40	< 50.0	3.5 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**13800**	119	196 J	69.1 J	452 J	-
	2003 01 (Spring)		0.80 J	0.71 J	**640**	< 2.0	< 5.0	3.7 J	1.5 J	1.1 J	-	< 3.0	350	< 0.20	< 20.0	3.0 J	1.4 J	< 5.0	< 1.0	2.1 J	< 20.0	< 100	**8100**	92.0	99.0	49.0	430	-
	2002 04 (Winter)		0.66 J	< 5.0	520	0.048 J	< 5.0	4.1 J	2.1 J	1.9 J	-	0.44 J	340	< 0.20	< 20.0	3.9 J	1.3 J	0.025 J	< 2.0	< 10.0	**70.0 J**	18.0 J	**17000**	120	53.0	37.0	250	-
	2002 03 (Fall)		0.48 J	< 5.0	480	0.031 J	< 5.0	4.8 J	1.3 J	< 10.0	-	< 3.0	620	< 0.20	< 20.0	3.8 J	< 5.0 UJ	< 5.0	< 2.0	3.4 J	< 20.0	< 100	**7600**	96.0	88.0	43.0	470	-
	2002 02 (Summer)		0.63 J	1.2 J	**600**	< 2.0	< 5.0	< 10.0	1.4 J	< 10.0	< 10.0	0.13 J	570	< 0.20	< 20.0	< 20.0	4.5 J	< 5.0	3.7	< 10.0	< 20.0	210	**6800**	100	100	50.0	480	< 0.010
M024-E	2007 01 (Spring)		0.50 J	12.0	220 J	0.20 J	< 5.0	< 10.0	0.41 J	1.3 J	-	< 0.38	440 J	< 0.20	< 20.0	< 20.0	< 5.0	0.21 J	0.38 J	< 3.3	16.0 J	38.0 J	4400	49.0 J	51.0	31.0	590	-

FWBZ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M024-E	2006 03 (Fall)		< 1.0	10.0	200	< 2.0	< 5.0	< 10.0	0.61 J	< 10.0	-	< 3.0	570	< 0.20	3.4 J	8.1 J	< 5.0	< 5.0	< 5.0	6.7 J	< 20.0	< 52.0	3500	48.0	73.0	35.0	810 J	-
	2006 01 (Spring)		0.19 J	10.0	530 J	< 2.0 UJ	< 5.0 UJ	< 10.0 UJ	0.61 J	< 10.0	-	< 3.0 UJ	1300	0.092 J	3.2 J	3.5 J	< 5.0	3.5 J	9.4	< 10.0	22.0 J	< 100	**8200 J**	120	180	68.0	1600	-
	2005 02 (Summer)		< 1.0	12.0	160	< 2.0	< 5.0	2.8 J	0.49 J	0.81 J	-	< 3.0	340	< 0.20	3.3 J	2.3 J	3.5 J	< 5.0	< 5.0	3.5 J	8.4 J	5.7 J	3500	35.0	35.0	24.0	430	-
	2005 01 (Spring)		< 1.0	19.0	260	< 2.0	< 5.0	1.9 J	0.26 J	< 10.0	-	< 3.0	350	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	2.4 J	4.9 J	< 100	6100	54.0	41.0	30.0	440	-
	2004 04 (Winter)		1.3	14.0	250	< 2.0	< 5.0 UJ	2.0 J	0.68 J	0.67 J	-	0.071 J	660	< 0.20	2.8 J	2.8 J	4.5 J	< 5.0	0.24 J	2.9 J	8.9 J	2.7 J	5900	69.0	82.0	41.0	850	-
	2004 02 (Summer)		< 1.0	16.0	270	< 2.0	< 5.0	< 10.0	0.61 J	< 10.0	-	0.14 J	540	< 0.20	< 20.0	< 20.0	2.5 J	< 5.0	< 5.0	4.6 J	7.9 J	< 100	4800	62.0	70.0	36.0	750	-
	2004 01 (Spring)		< 5.0	10.6 J	199	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	283 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.2 J	< 20.0	< 200	5030 J	51.1 J	31.9	25.9	372 J	-
	2003 04 (Winter)		< 5.0	< 50.0	176	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	341	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	4120	44.6	39.5	29.0	537	-
	2003 03 (Fall)		< 5.0 UJ	< 50.0 UJ	251	< 4.0	< 5.0	2.0 J	< 10.0	< 10.0	-	< 10.0	757	-	< 50.0	< 20.0	< 20.0	< 10.0	-	2.8 J	10.5 J	< 200	4800	67.0	93.4	37.2 J	884	-
	2003 02 (Summer)		< 50.0	17.1 J	245	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	731	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 5.0	1.8 J	< 20.0	< 200	4340	63.5	92.7 J	34.7 J	851 J	-
	2003 01 (Spring)		< 1.0	13.0	280	< 2.0	< 5.0	< 10.0	< 10.0	0.52 J	-	< 3.0	600	< 0.20	3.5 J	5.9 J	2.4 J	< 5.0	< 1.0	2.8 J	< 20.0 UJ	< 100	5600	67.0	79.0	38.0	770	-
	2002 04 (Winter)		0.21 J	15.0	210	< 2.0	< 5.0	2.4 J	0.34 J	0.19 J	-	0.062 J	250	< 0.20	3.4 J	0.87 J	0.89 J	< 5.0	< 2.0	3.9 J	1.7 J	3.4 J	4300	43.0	30.0	27.0	420	-
	2002 03 (Fall)		< 50.0	12.0	310	< 2.0	< 5.0	< 10.0	0.75 J	< 10.0	-	< 3.0	990	< 0.20	3.3 J	3.9 J	< 5.0 UJ	< 5.0	< 2.0	1.6 J	< 20.0	< 100	6000	80.0	130	49.0	1200	-
	2002 02 (Summer)		0.24 J	15.0	250	< 2.0	< 5.0	< 10.0	0.63 J	< 10.0	< 10.0	0.080 J	540	< 0.20	< 20.0	< 20.0	5.7 J	< 5.0	< 2.0	< 10.0	< 20.0	110	5500	57.0	65.0	35.0	700	< 0.010
M036-A	2007 01 (Spring)		0.80 J	< 5.0	**790**	< 2.0	< 5.0	7.2 J	1.9	1.1 J	-	< 1.7	780	< 0.20	< 20.0	3.4 J	< 5.0	< 5.0	< 5.0	8.4 J	30.0	< 29.0	**7500**	**250 J**	290	94.0	2000	-
	2006 03 (Fall)		2.7	1.6 J	**620**	< 2.0	< 5.0	6.1 J	2.2	< 10.0	-	< 3.0	730	< 0.20	< 20.0	2.7 J	< 5.0	< 5.0	< 5.0	6.2 J	< 20.0	< 63.0	**9500**	**180**	180	71.0	1400 J	-
	2006 01 (Spring)		1.4	< 5.0	450	0.40 J	< 5.0	6.9 J	1.3	1.6 J	-	0.36 J	700	< 0.20	1.9 J	2.9 J	< 5.0	1.6 J	< 500	< 10.0	< 20.0	< 100	6300	**160**	150	67.0	1200	-
	2005 02 (Summer)		1.1	< 5.0	510	< 2.0	< 5.0	7.5 J	2.6	1.1 J	-	< 3.0	770	< 0.20	0.43 J	4.6 J	**9.5**	< 5.0	0.11 J	2.7 J	25.0	24.0 J	**9800**	150	120	57.0	930	-
	2005 01 (Spring)		1.2	< 5.0	540	< 2.0	< 5.0	6.3 J	1.7	< 10.0	-	< 3.0	720	< 0.20	< 20.0	4.6 J	< 5.0	< 5.0	< 5.0	3.6 J	8.2 J	130 J	6100	**190**	180	66.0	1400	-
	2004 04 (Winter)		0.99 J	3.9 J	550	< 2.0	< 5.0	7.5 J	3.1	1.4 J	-	0.28 J	750	< 0.20	0.56 J	5.4 J	3.2 J	< 5.0	< 5.0	3.8 J	12.0 J	30.0 J	**16000**	**250**	230	87.0	1600	-
	2004 02 (Summer)		0.90 J	< 1.0	**750**	< 1.0	< 1.0	7.2	2.7	4.1	-	0.45 J	920	< 0.20	0.86 J	5.8	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	24.0 J	**9600**	**260**	260	97.0	2000	-
	2004 01 (Spring)		< 10.0	< 50.0	**617**	< 4.0	< 5.0	7.5 J	< 10.0	< 10.0	-	< 10.0	1090	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	5.6 J	< 20.0	< 200	**10100**	**247**	196	81.5	1440	-
	2003 04 (Winter)		< 5.0	< 50.0	**801**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	583	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	5770	**257**	**381**	142	3110	-
	2003 03 (Fall)		< 25.0 UJ	< 50.0	**764**	< 4.0	< 5.0	8.1 J	3.0 J	< 10.0	-	< 10.0	928 J	< 0.40	< 50.0	4.2 J	< 20.0	< 10.0	< 10.0	2.4 J	< 20.0	54.7 J	**12400 J**	**270 J**	274 J	82.2 J	1770 J	-
	2003 02 (Summer)		< 50.0	6.3 J	**749**	< 4.0	< 5.0	9.7 J	4.1 J	< 10.0	-	< 10.0	956	< 0.40	< 50.0	3.1 J	< 20.0	< 10.0	< 50.0	3.2 J	< 20.0	< 200	**10700**	**267**	281	100 J	1830	-
	2003 01 (Spring)		2.5	< 5.0	480	< 2.0	1.3 J	8.5 J	2.6 J	3.2 J	-	0.55 J	870	< 0.20	< 200	5.4 J	< 5.0	< 5.0	< 1.0	4.7 J	**42.0 J**	47.0 J	**12000**	**180**	130	59.0	950	-
	2002 04 (Winter)		0.69 J	2.5 J	**890**	< 2.0	< 5.0	7.0 J	2.5 J	2.5 J	-	0.26 J	620	< 0.20	< 20.0	5.7 J	1.6 J	< 5.0	< 2.0	4.7 J	< 20.0	< 100	3400	**280**	**390**	120	< 0.50	-
	2002 03 (Fall)		0.45 J	< 5.0	**870**	< 2.0	< 5.0	5.5 J	2.3 J	< 10.0	-	< 3.0	670	< 0.20	< 20.0	3.7 J	3.6 J	< 5.0	< 2.0	3.1 J	< 20.0	< 100	3800	**280**	**410**	120	3000	-
	2002 02 (Summer)		0.78 J	0.85 J	**610**	< 2.0	< 5.0	< 200	3.3 J	2.2 J	< 10.0	1.3 J	820	< 0.20	< 20.0	5.0 J	-	< 5.0	< 2.0	8.1 J	< 20.0	460	5100	**220**	210	84.0	1600	< 0.010

FWBZ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M036-E	2007 01 (Spring)	0.46 J	7.3	**800**	0.24 J	0.15 J	2.4 J	3.2	< 10.0	-	< 3.0	270	< 0.20	0.57 J	3.9 J	0.55 J	0.16 J	< 5.0	5.6 J	27.0	29.0 J	**20000**	120	**620**	160	**6300**	-
		2006 03 (Fall)	< 1.0	8.9	**1000**	< 2.0	< 5.0	< 10.0	3.3	< 10.0	-	< 3.0	320	< 0.20	< 20.0	3.0 J	0.45 J	< 5.0	< 5.0	< 10.0	< 20.0	< 52.0	**24000**	140	**620 J**	180	**7000 J**	-
		2006 01 (Spring)	0.38 J	14.0	**760**	0.55 J	< 5.0	< 10.0	2.7	< 10.0	-	< 3.0	300	< 0.20	1.6 J	4.6 J	< 5.0	< 5.0	2.6 J	< 10.0	35.0	< 100	**20000**	120	**630**	180	**6500**	-
		2005 02 (Summer)	0.39 J	< 5.0	**890**	< 2.0	< 5.0	2.5 J	3.8	3.4 J	-	< 3.0	330	< 0.20	< 20.0	5.1 J	**59.0 J**	< 5.0	< 5.0	2.5 J	30.0	< 100	**23000**	130	**630**	180	**6500**	-
		2005 01 (Spring)	< 1.0	< 8.5	**770**	< 2.0	0.64 J	< 10.0	3.5	< 10.0	-	< 3.0	280	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	0.94 J	9.5 J	83.0 J	**22000**	130	**620**	180	**6300**	-
		2004 04 (Winter)	0.48 J	12.0	**930**	< 2.0	< 5.0	2.5 J	3.9	1.9 J	-	0.29 J	370	< 0.20	0.35 J	8.1 J	< 5.0	< 5.0	< 5.0	2.4 J	14.0 J	6.1 J	**28000**	150	**720**	200	**6800**	-
		2004 02 (Summer)	0.53 J	< 1.0	**890**	< 1.0	< 1.0	2.9	4.0	18.0	-	0.12 J	330	0.14 J	1.5 J	13.0	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**27000**	150	**710**	200	**7600**	-
		2004 01 (Spring)	< 5.0	< 50.0	**777**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	336 J	< 1.0	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**25900 J**	142 J	**694**	223	**7570 J**	-
		2003 04 (Winter)	< 5.0	7.5 J	**802**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	318	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**23800**	128	**645**	243	**7390**	-
		2003 03 (Fall)	< 5.0	< 50.0	**954**	< 4.0	< 5.0	1.8 J	< 10.0	< 10.0	-	< 10.0	410	< 0.40	< 50.0	3.8 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**29400**	**163**	**772**	225	**6620**	-
		2003 02 (Summer)	< 50.0	16.2 J	**1060**	< 4.0	< 5.0	2.0 J	4.9 J	< 10.0	-	< 10.0	453	< 0.40	< 50.0	3.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**33000**	**196**	**901 J**	238 J	**7950 J**	-
		2003 01 (Spring)	1.1	< 5.0	**870**	< 2.0	< 5.0	3.0 J	3.9 J	6.0 J	-	< 3.0	320	< 0.20	< 200	9.9 J	< 5.0	< 5.0	< 1.0	3.7 J	< 20.0	5.1 J	**24000**	130	**610**	160	**6600**	-
		2002 04 (Winter)	0.26 J	< 5.0	**870**	< 2.0	0.11 J	2.7 J	4.0 J	8.6 J	-	0.077 J	350	< 0.20	< 20.0	13.0 J	< 5.0	< 5.0	< 2.0	2.8 J	1.7 J	< 100	**25000**	140	**690**	180	< 0.50	-
		2002 03 (Fall)	0.15 J	< 5.0	**640**	< 2.0	< 5.0	< 10.0	3.4 J	5.5 J	-	< 3.0	330	< 0.20	0.41 J	7.3 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**17000**	130	**700**	180	**6900**	-
		2002 02 (Summer)	0.21 J	< 5.0	470	< 2.0	< 5.0	< 10.0	4.5 J	7.1 J	< 10.0	0.27 J	330	< 0.20	0.64 J	8.6 J	-	< 5.0	< 2.0	5.9 J	< 20.0	300	1600	140	**730**	180	**7500**	< 0.010
	M037-A	2007 01 (Spring)	1.1	7.3	260	< 2.0	< 5.0	5.0 J	4.8	0.50 J	-	< 1.7	110	< 0.073	3.8 J	9.5 J	< 5.0	0.080 J	< 5.0	7.3 J	11.0 J	< 11.0	**9200**	72.0 J	190	120	2400	-
		2006 03 (Fall)	1.5	9.7	320	< 2.0	< 5.0	6.8 J	4.6	< 10.0	-	< 3.0	170	< 0.20	< 20.0	9.8 J	0.27 J	< 5.0	< 5.0	8.1 J	< 20.0	< 12.0	**7700**	79.0	210 J	140	2400 J	-
		2006 01 (Spring)	1.5	7.3	210	0.42 J	< 5.0	4.9 J	3.7	< 10.0	-	< 3.0	160	< 0.20	1.3 J	8.1 J	< 5.0	1.7 J	3.6 J	3.7 J	< 20.0	< 100	6100	78.0	160	120	1900	-
		2005 02 (Summer)	2.5	10.0	280	< 2.0	< 5.0	7.1 J	4.5	0.48 J	-	< 3.0	160	< 0.20	0.57 J	10.0 J	**27.0**	< 5.0	0.21 J	8.0 J	20.0	< 100	**8200**	81.0	210	140	2100	-
		2005 01 (Spring)	1.4	< 5.0	250	< 2.0	< 5.0	7.4 J	4.5	< 10.0	-	< 3.0	160	< 0.20	< 20.0	9.4 J	< 5.0	< 5.0	< 5.0	7.4 J	16.0 J	< 100	**11000**	79.0	160	100	1900	-
		2004 04 (Winter)	1.7	11.0	350	< 2.0	< 5.0	8.3 J	5.3	1.1 J	-	0.19 J	200	< 0.20	0.56 J	11.0 J	**18.0**	< 5.0	< 5.0	6.5 J	10.0 J	7.3 J	**12000**	90.0	210	130	2500	-
		2004 02 (Summer)	2.1	19.0	350	< 2.0	< 5.0	< 10.0	6.3	< 10.0	-	0.24 J	200	0.050 J	< 20.0	12.0 J	**16.0 J**	< 5.0	< 1.0	12.0	< 20.0	41.0 J	**13000**	110	320	**180**	**3900**	-
		2004 01 (Spring)	< 10.0	4.5 J	282	< 4.0	< 5.0	7.0 J	< 10.0	< 10.0	-	< 10.0	183	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	8.5 J	< 20.0	< 200	**9810**	97.4	179	126	2120	-
		2003 04 (Winter)	< 5.0	5.9 J	334	< 4.0	< 5.0	< 10.0	< 12.5	< 10.0	-	< 10.0	177	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	6.3 J	< 20.0	< 200	**17100**	90.4	194	146	2470	-
		2003 03 (Fall)	10.2 J	**24.0 J**	568	< 4.0	0.92 J	8.0 J	8.9 J	< 10.0	-	< 10.0	475 J	< 0.40	< 50.0	15.1 J	< 20.0	< 10.0	< 10.0	7.7 J	35.4	< 200	**27200 J**	**173 J**	**555 J**	**282 J**	**5510 J**	-
		2003 02 (Summer)	< 50.0	6.8 J	441	< 4.0	< 5.0	11.1	6.4 J	< 10.0	-	< 10.0	211	< 0.40	< 50.0	13.9 J	< 20.0	< 10.0	< 50.0	5.3 J	< 20.0	< 200	**20400**	122	261	134 J	2670	-
		2003 01 (Spring)	2.8	4.4 J	290	< 2.0	< 5.0	8.8 J	6.4 J	1.7 J	-	< 3.0	170	< 0.20	< 200	13.0 J	< 5.0	< 5.0	< 1.0	11.0	< 20.0	13.0 J	**8100**	85.0	170	110	2100	-
		2002 04 (Winter)	1.5 J	< 5.0	390	< 2.0	< 5.0	9.9 J	6.5 J	1.7 J	-	0.17 J	210	< 0.20	< 20.0	14.0 J	< 5.0	< 5.0	< 2.0	8.0 J	16.0 J	< 100	**17000**	100	200	130	2400	-
		2002 03 (Fall)	2.7 J	< 5.0	350	< 2.0	< 5.0	8.6 J	5.8 J	3.1 J	-	< 3.0	200	0.13 J	0.84 J	17.0 J	< 5.0	< 5.0	< 2.0	10.0	< 20.0	68.0 J	**13000**	87.0	260	**150**	3100	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M037-A	2002 02 (Summer)	3.6 J	16.0	230	< 2.0	< 5.0	8.7 J	8.0 J	3.9 J	< 10.0	0.88 J	220	< 0.20	1.3 J	< 400	-	< 5.0	< 2.0	16.0	< 20.0	340	6300	100	280	170	3600	< 0.010
	M037-E	2007 01 (Spring)	0.47 J	5.5	1400	3.0	2.7 J	< 2.0	3.9	< 10.0	-	2.4 J	260	< 0.20	3.6 J	1.8 J	1.1 J	2.6 J	1.4 J	4.7 J	18.0 J	99.0 J	24000	170	920	200	8200	-
		2006 03 (Fall)	< 1.0	7.1	1900	< 2.0	< 5.0	< 10.0	4.4	1.0 J	-	< 3.0	410	< 0.20	< 20.0	< 20.0	0.62 J	< 5.0	< 5.0	< 10.0	< 20.0	< 100	39000	230 J	990 J	270 J	9700 J	-
		2006 01 (Spring)	0.42 J	7.1	1500	0.60 J	< 5.0	< 10.0	3.0	< 10.0	-	< 3.0	330	< 0.20	1.8 J	< 20.0	7.9	< 5.0	< 500	< 10.0	< 20.0	< 100	28000	200	950	240	8300	-
		2005 02 (Summer)	< 1.0	< 5.0	1500	< 2.0	< 5.0	< 10.0	3.8	3.4 J	-	< 3.0	360	< 0.20	0.56 J	4.2 J	180	0.046 J	0.45 J	< 10.0	65.0	< 100	29000	190	870	230	6800	-
		2005 01 (Spring)	0.52 J	< 5.0	1500	< 2.0	0.93 J	< 10.0	4.1	< 10.0	-	< 3.0	320	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	1.9 J	8.4 J	< 100	29000	210	970	250	8400	-
		2004 04 (Winter)	0.27 J	11.0	1500	< 2.0	< 5.0	1.5 J	3.8	2.4 J	-	0.12 J	360	0.12 J	0.38 J	4.8 J	1.5 J	< 5.0	< 5.0	1.6 J	14.0 J	1.9 J	170000	210	930	880	8400	-
		2004 02 (Summer)	< 1.0	< 1.0	1500	< 2.0	< 5.0	< 10.0	5.0	< 10.0	-	0.58 J	380	< 0.20	< 20.0	10.0 J	< 1.0 J	< 5.0	0.28 J	< 10.0	< 20.0	7.5 J	30000 J	220	960	260	8500	-
		2004 01 (Spring)	< 10.0	5.8 J	1480	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	420	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	32600	211	998	316	9250	-
		2003 04 (Winter)	< 5.0	5.1 J	1260	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	351	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	26300	177	831	301	8420	-
		2003 03 (Fall)	< 25.0 UJ	< 50.0	1610	< 4.0	0.71 J	< 10.0	4.1 J	< 10.0	-	< 10.0	497 J	< 0.40	< 50.0	2.4 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	35100 J	252 J	1110 J	310 J	7630 J	-
		2003 02 (Summer)	< 50.0	7.7 J	1770	< 4.0	< 5.0	< 10.0	3.6 J	< 10.0	-	< 10.0	544	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	39500	275	1210	334 J	8220	-
		2003 01 (Spring)	0.32 J	< 5.0	1500	< 2.0	< 5.0	2.1 J	4.4 J	6.4 J	-	< 3.0	420	< 0.20	< 200	8.4 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	3.5 J	29000	190	790	210	7300	-
		2002 04 (Winter)	0.17 J	< 5.0	1400	< 2.0	< 5.0	1.6 J	4.0 J	8.2 J	-	0.12 J	400	< 0.20	< 20.0	11.0 J	< 5.0	< 5.0	< 2.0	1.6 J	< 20.0	< 100	29000	210	930	230	8100	-
		2002 03 (Fall)	0.11 J	< 5.0	1300	< 2.0	< 5.0	< 10.0	3.7 J	8.4 J	-	< 3.0	430	< 0.20	0.56 J	7.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	28000	200	910	220	7700	-
		2002 02 (Summer)	0.18 J	< 5.0	1000	< 2.0	< 5.0	< 500	4.8 J	10.0 J	< 10.0	< 3.0 UJ	450	< 0.20	0.88 J	7.2 J	-	< 5.0	< 2.0	8.4 J	< 20.0	400	16000	210	970	220	8100	< 0.010
	M038-A	2007 01 (Spring)	0.67 J	< 5.0	300 J	< 2.0	< 5.0	7.7 J	2.8	0.94 J	-	< 0.19	700 J	< 0.20	< 0.23	6.3 J	< 5.0	< 5.0	< 5.0	< 5.3	12.0 J	23.0 J	11000	99.0 J	89.0	77.0	740	-
		2006 03 (Fall)	< 1.0	11.0	380	< 2.0	0.065 J	8.2 J	2.5	0.80 J	-	< 3.0	570	< 0.20	< 20.0	22.0	0.56 J	< 5.0	< 5.0	7.1 J	4.8 J	< 120	21000	170	350 J	200 J	4600 J	-
		2006 01 (Spring)	2.4	13.0	200	< 2.0	< 5.0	1.8 J	1.6	< 10.0	-	< 3.0	310	< 0.20	1.7 J	8.3 J	< 5.0	2.1 J	< 500	5.9 J	< 20.0	< 100	7700	140	320	190	4700	-
		2005 01 (Spring)	0.47 J	< 5.0	300	< 2.0	< 5.0	4.2 J	3.2	< 10.0	-	< 3.0	380	< 0.20	< 20.0	8.2 J	< 5.0	< 5.0	< 5.0	3.0 J	14.0 J	< 100	22000	150	340	210	4500	-
		2004 04 (Winter)	0.74 J	19.0	490	< 2.0	< 5.0	4.5 J	3.5	1.8 J	-	0.29 J	360	< 0.20	0.62 J	12.0 J	< 5.0	< 5.0	< 5.0	3.9 J	11.0 J	6.3 J	20000	200	480	240	6100	-
		2004 01 (Spring)	< 10.0	10.4 J	229	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	633	< 0.40	< 50.0	14.2 J	< 20.0	< 10.0 UJ	< 10.0	< 50.0	< 20.0	< 200	14600	138	257	182	3320	-
		2003 04 (Winter)	< 5.0	8.7 J	296	< 4.0	< 5.0	6.1 J	< 10.0	< 10.0	-	< 10.0 UJ	627	< 0.40	< 50.0	23.1	< 20.0	< 10.0	< 25.0 UJ	6.2 J	< 20.0	< 200	15400	143	296	203	3600	-
		2003 02 (Summer)	< 50.0	26.5 J	486	< 4.0	< 5.0	4.6 J	4.6 J	< 10.0	-	< 10.0	621	< 0.40	< 50.0	14.9 J	< 20.0	< 10.0	< 50.0	2.6 J	< 20.0	< 200	32500	256	591 J	302 J	5900 J	-
		2003 01 (Spring)	2.2	1.7 J	210	< 2.0	< 5.0	7.2 J	4.3 J	3.1 J	-	< 3.0	570	< 0.20	< 200	13.0 J	< 5.0	< 5.0	< 1.0	5.8 J	7.0 J	8.1 J	9500	110	180	120	2300	-
		2002 04 (Winter)	0.77 J	< 5.0	520	< 2.0	< 5.0	6.4 J	4.5 J	6.1 J	-	0.24 J	600	< 0.20	< 20.0	17.0 J	< 5.0	< 5.0	< 2.0	5.0 J	< 20.0	< 100	28000	140	320	240	3800	-
		2002 02 (Summer)	0.81 J	10.0	200	< 2.0	< 5.0	5.4 J	4.2 J	< 10.0	-	0.13 J	470	0.045 J	< 20.0	9.7 J	30.0 J	< 5.0 UJ	< 2.0	< 10.0	< 20.0	5.5 J	180	200	480	240	6000	< 0.010
	M038-E	2007 01 (Spring)	1.1	5.3	1500	0.85 J	1.1 J	< 2.2	3.6	< 10.0	-	0.59 J	200	< 0.20	1.2 J	2.8 J	0.75 J	0.74 J	0.39 J	5.3 J	22.0	95.0 J	20000	270	1100	250	8100	-
		2006 03 (Fall)	< 1.0	5.2	1900	< 2.0	< 5.0	1.7 J	4.2	0.99 J	-	< 3.0	260	< 0.20	< 20.0	< 20.0	0.60 J	< 5.0	< 5.0	< 10.0	< 20.0	< 100	27000	260 J	1000 J	260 J	8600 J	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M038-E	2006 01 (Spring)	0.43 J	9.4	1700	0.62 J	< 5.0	< 10.0	3.4	< 10.0	-	< 3.0	220	0.18 J	0.47 J	1.5 J	3.2 J	< 5.0	3.0 J	< 10.0	< 20.0	< 100	27000	270	1100	250	8500	-
		2005 02 (Summer)	< 1.0	< 5.0	1700	< 2.0	< 5.0	4.1 J	4.5	4.7 J	-	0.28 J	250	< 0.20	0.80 J	11.0 J	160	< 5.0	0.26 J	2.1 J	74.0	< 100	26000	240	950	250	6900	-
		2005 01 (Spring)	< 1.0	< 5.0	1600	< 2.0	0.48 J	2.0 J	4.5	< 10.0	-	< 3.0	220	< 0.20	< 20.0	8.2 J	< 5.0	< 5.0	< 5.0	1.5 J	11.0 J	< 100	27000	270	1100	280	8800	-
		2004 04 (Winter)	1.1	16.0	1600	< 2.0	< 5.0	2.5 J	4.2	3.1 J	-	0.12 J	180	< 0.20	0.36 J	18.0 J	< 5.0	< 5.0	< 5.0	4.0 J	17.0 J	1.4 J	19000	240 J	1000	270 J	7900	-
		2004 02 (Summer)	0.36 J	< 1.0	1800	< 1.0	< 1.0	3.7 J	5.3	14.0	-	0.066 J	250	< 0.20	0.68 J	18.0	< 1.0 J	< 5.0	< 1.0	2.2 J	< 20.0	2.7 J	28000 J	270	1100	300	9600	-
		2004 01 (Spring)	< 10.0	8.9 J	1560	< 4.0	< 5.0	10.2	< 10.0	< 10.0	-	< 10.0	264 J	< 1.0	**19.3 J**	**34.4**	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	29900 J	266 J	1170	329	9430 J	-
		2003 04 (Winter)	< 5.0	< 50.0	1420	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	247	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	24800	221	945	338	9140	-
		2003 03 (Fall)	< 25.0 UJ	< 50.0 UJ	1870	< 4.0	< 5.0	1.8 J	< 10.0	< 10.0	-	< 10.0	361	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	33400	318	1260	361 J	8200	-
		2003 02 (Summer)	< 50.0	13.4 J	1920	< 4.0	< 5.0	1.8 J	5.4 J	< 10.0	-	< 10.0	359	< 0.40	< 50.0	3.9 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	35500	335	1330 J	326 J	9430 J	-
		2003 01 (Spring)	0.30 J	< 5.0	1700	< 20.0	< 5.0	3.1 J	4.5 J	7.0 J	-	< 3.0	280	< 0.20	< 200	11.0 J	< 5.0	< 5.0	< 1.0	3.4 J	< 20.0	3.2 J	28000	240	970	250	7900	-
		2002 04 (Winter)	0.44 J	< 5.0	1700	< 2.0	< 5.0	2.7 J	4.5 J	9.5 J	-	0.15 J	240	< 0.20	< 20.0	20.0	< 5.0	0.080 J	< 2.0	5.0 J	< 20.0	< 100	23000	260	1100	270	8700	-
		2002 03 (Fall)	0.26 J	< 5.0	1000	< 2.0	< 5.0	< 10.0	4.2 J	4.6 J	-	< 3.0	300	< 0.20	< 20.0	9.9 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	7700	260	1100	260	8700	-
		2002 02 (Summer)	0.57 J	12.0	1100	< 2.0	< 5.0	< 10.0	5.2 J	< 10.0	< 10.0 UJ	0.035 J	330	< 0.20	< 20.0	< 20.0	**31.0 J**	< 5.0 UJ	< 2.0	< 10.0	8.0 J	3.9 J	1500	280	1100	270	9400	< 0.010
	M039-A	2007 01 (Spring)	< 0.62	< 5.0	300	< 2.0	< 5.0	6.8 J	2.6	< 10.0	-	< 1.7	750	0.064 J	< 0.23	5.9 J	< 5.0	< 5.0	< 5.0	5.9 J	34.0	< 23.0	10000	110 J	90.0	72.0	670	-
		2006 03 (Fall)	< 1.0	1.9 J	270	< 2.0	< 5.0	5.3 J	2.4	1.3 J	-	< 3.0	820	< 0.20	< 20.0	6.1 J	< 5.0	< 5.0	< 5.0	3.9 J	< 20.0	< 17.0	9700	110	80.0	66.0	580 J	-
		2006 01 (Spring)	0.95 J	< 5.0	120	< 2.0	< 5.0	4.7 J	1.6	< 10.0	-	0.33 J	1000	< 0.20	1.6 J	4.0 J	< 5.0	< 5.0	2.3 J	2.0 J	2.3 J	< 100 UJ	16000	85.0	61.0	54.0	420	-
		2005 02 (Summer)	< 1.0	< 5.0	250	< 2.0	< 5.0	6.0 J	2.4	< 10.0	-	< 3.0	710	< 0.20	0.34 J	6.9 J	5.5	< 5.0	0.089 J	< 10.0	14.0 J	18.0 J	7800	100	76.0	62.0	580	-
		2005 01 (Spring)	1.1	< 5.0	140	< 2.0	0.59 J	4.6 J	1.9	3.5 J	-	< 3.0	680	< 0.20	< 20.0	7.4 J	< 5.0	< 5.0	< 5.0	2.6 J	8.8 J	< 100	16000	75.0	67.0	64.0	700	-
		2004 04 (Winter)	0.73 J	5.2	340	< 2.0	< 5.0	6.5 J	2.9	1.3 J	-	0.43 J	800	< 0.20	< 20.0	8.8 J	4.6 J	< 5.0	< 5.0	2.0 J	7.5 J	17.0 J	8700	140	110	77.0	810	-
		2004 02 (Summer)	0.71 J	4.1	270	< 1.0	< 1.0	7.2	2.5	0.82 J	-	0.11 J	720	< 0.20	0.30 J	5.7	1.4 J	< 5.0	< 1.0	3.1	< 20.0	16.0 J	6800 J	130	99.0	76.0	740	-
		2004 01 (Spring)	< 5.0	< 50.0	220	< 4.0	< 5.0	10.3	5.8 J	< 10.0	-	< 10.0	799	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	12700	118	108	95.9 J	876	-
		2003 04 (Winter)	< 5.0	< 50.0	316	< 4.0	< 5.0	< 10.0	< 12.1	< 10.0	-	< 10.0	754	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	6330	131	109	87.7	810	-
		2003 03 (Fall)	< 5.0 UJ	< 50.0	305	< 4.0	< 5.0	7.1 J	3.4 J	< 10.0	-	< 10.0	832 J	< 0.40	< 50.0	7.3 J	< 20.0	< 10.0	< 5.0	2.4 J	< 20.0	41.7 J	6690 J	140 J	116 J	75.4 J	700 J	-
		2003 02 (Summer)	< 50.0	< 50.0	281	< 4.0	< 5.0	1.4 J	< 10.0	2.4 J	-	< 10.0	753	< 0.40	< 50.0	11.0 J	< 20.0	< 10.0	< 5.0	< 50.0	4.2 J	31.4 J	6260	127	109	**667 J**	700	-
		2003 01 (Spring)	0.83 J	1.9 J	260	< 2.0	< 5.0	7.3 J	2.4 J	0.82 J	-	< 3.0	600	< 0.20	< 200	6.3 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	17.0 J	7000	100	92.0	72.0	760	-
		2002 04 (Winter)	0.63 J	2.0 J	140	< 2.0	< 5.0	5.9 J	2.1 J	2.2 J	-	0.34 J	760	< 0.20	< 20.0	4.6 J	< 5.0	< 5.0	< 2.0	2.1 J	**310 J**	< 100	15000	95.0	73.0	71.0	560	-
		2002 03 (Fall)	0.76 J	< 5.0	330	< 2.0	< 5.0	7.6 J	3.3 J	< 10.0	-	< 3.0	680	0.052 J	< 20.0	9.0 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	5100	120	110	83.0	930	-
		2002 02 (Summer)	0.73 J	3.1 J	330	< 2.0	< 5.0	7.1 J	3.3 J	< 10.0	< 10.0 UJ	0.086 J	730	< 0.20	< 20.0	18.0 J	5.8 J	< 5.0 UJ	< 2.0	8.8 J	7.3 J	18.0 J	3900	130	120	88.0	930	< 0.010

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWBZ	M010-B	2007 01 (Spring)	< 0.20	3.3 J	32.0	**3.0**	< 5.0	< 2.2	0.34 J	< 0.46	-	< 0.14	37.0	< 0.20	3.2 J	0.79 J	< 5.0	< 5.0	< 5.0	5.5 J	**37.0**	< 17.0	1200	110	**490**	**150**	2600	-
		2006 03 (Fall)	< 1.0	2.9 J	31.0	< 2.0	< 5.0	< 10.0	0.30 J	0.76 J	-	< 3.0	45.0	< 0.20	< 20.0	< 20.0	< 5.0	1.5 J	< 5.0	< 10.0	**37.0**	< 68.0	1400	100	**450 J**	140	2300 J	-
		2006 01 (Spring)	< 1.0	< 5.0	34.0	0.39 J	< 5.0	1.8 J	0.49 J	< 10.0	-	< 3.0	59.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.47 J	26.0	< 100	1400 J	100 J	**500 J**	**150 J**	2600 J	-
		2005 02 (Summer)	0.21 J	2.5 J	380	< 2.0	< 5.0	0.86 J	1.2	0.73 J	-	0.28 J	**1900**	< 0.20	7.1 J	3.6 J	3.2 J	< 5.0	0.11 J	2.2 J	< 20.0	< 100	220	64.0	160	53.0	1800	-
		2004 04 (Winter)	0.094 J	7.8	34.0	< 2.0	< 5.0	2.3 J	0.58 J	1.3 J	-	0.28 J	63.0	< 0.20	0.27 J	2.4 J	**13.0**	< 5.0	0.62 J	1.8 J	8.3 J	2.3 J	1800	93.0	**500**	**150**	2800	-
		2004 02 (Summer)	0.081 J	5.5	37.0	< 1.0	< 1.0	2.9	0.74 J	1.3	-	0.075 J	56.0	< 0.20	< 5.0	2.4	4.6	< 1.0	< 1.0	< 3.2	< 1.0	< 50.0	1600	120	**540**	**160**	3100	-
		2003 04 (Winter)	< 5.0	< 50.0	30.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	61.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	1500	93.2	**459**	**167**	2700	-
		2003 02 (Summer)	< 50.0	< 50.0	38.7 J	< 4.0	< 5.0	1.2 J	< 10.0	< 10.0	-	< 10.0	74.2	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	1840	127	**585**	**162 J**	2890	-
		2002 04 (Winter)	0.052 J	9.3	37.0 J	< 2.0	< 5.0	2.2 J	0.52 J	1.4 J	-	< 3.0	65.0	0.15 J	< 20.0	1.5 J	**25.0**	< 5.0	< 2.0	1.8 J	< 20.0	< 100	1900	86.0 J	**490 J**	130 J	2700	-
		2002 02 (Summer)	< 50.0	6.6 J	32.0	< 2.0	< 5.0	< 10.0	0.55 J	< 10.0	< 10.0	0.053 J	62.0	< 0.20	< 20.0	< 20.0	**25.0 J**	< 5.0	< 2.0	< 10.0	14.0 J	7.3 J	1200	99.0	**470**	**150**	2600	< 0.010
	M012-B	2007 01 (Spring)	< 0.58	4.0 J	63.0	0.26 J	0.75 J	2.6 J	12.0	2.5 J	-	< 1.7	**8700**	**0.48**	3.7 J	15.0 J	2.8 J	0.27 J	1.0 J	8.4 J	1.8 J	< 28.0	51.0 J	**610**	**1200**	**150**	**7300**	-
		2006 03 (Fall)	< 1.0	1.6 J	56.0	< 2.0	0.34 J	< 10.0	9.4	< 10.0	-	< 3.0	**8300 J**	< 0.20	2.8 J	11.0 J	< 5.0	4.0 J	< 5.0	6.8 J	11.0 J	< 120	84.0 J	**560 J**	**1200 J**	140	**7400 J**	-
		2006 01 (Spring)	0.20 J	5.1	57.0	0.49 J	0.57 J	1.8 J	11.0	2.4 J	-	< 3.0	**8500**	< 0.20	4.3 J	11.0 J	6.4	4.5 J	< 5.0	0.84 J	< 20.0	< 100	46.0 J	**680**	**1400**	**160**	**8700**	-
		2005 02 (Summer)	0.22 J	< 5.0	65.0	< 2.0	< 5.0	1.3 J	11.0	3.6 J	-	< 3.0	**8400**	< 0.20	3.9 J	17.0 J	**65.0**	< 5.0	< 5.0	7.3 J	**74.0**	3.3 J	3400	**590**	**1200**	**150**	**8100**	-
		2004 04 (Winter)	0.31 J	< 5.0	59.0	< 2.0	< 5.0	1.5 J	12.0	5.2 J	-	0.54 J	**10000**	< 0.20	3.1 J	**23.0**	< 5.0	< 5.0	< 5.0	8.6 J	22.0	8.8 J	2200	**700**	**1400**	**180**	**8300**	-
		2004 02 (Summer)	0.28 J	< 1.0	54.0	< 1.0	< 1.0	< 1.3	11.0	8.2	-	0.34 J	**7900**	< 0.20	3.3 J	**24.0**	< 1.0	< 1.0	0.26 J	8.6	< 1.0	7.5 J	< 100	**640**	**1300**	**160**	**8500**	-
		2003 04 (Winter)	< 5.0	< 50.0	47.7 J	< 4.0	< 5.0	< 10.0	< 14.3	< 10.0	-	< 10.0	**7490**	< 0.40	**28.2 J**	< 20.0	< 20.0	< 10.0	< 25.0 UJ	7.2 J	< 20.0	< 200	51.4 J	**670**	**1400**	**210**	**8260**	-
		2003 02 (Summer)	< 500	< 500	61.9 J	< 40.0	< 50.0	< 100	15.7 J	< 100	-	< 100	**10200**	< 0.40	< 500	< 200	< 200	< 100	< 50.0	< 500	< 200	< 2000	< 1000	**612**	**1460**	**200 J**	**7670**	-
		2002 04 (Winter)	0.089 J	15.0 J	54.0 J	< 2.0	< 5.0	< 10.0 UJ	11.0	5.1 J	-	0.55 J	**8800**	< 0.20	< 20.0 UJ	18.0 J	**57.0**	< 5.0	< 2.0	6.8 J	< 20.0	6.1 J	83.0 J	**600**	**1200**	**160**	**7300**	-
		2002 02 (Summer)	< 50.0	< 5.0	53.0	< 2.0	< 5.0	7.1 J	9.5 J	< 10.0	< 10.0 UJ	< 3.0	**7800**	< 0.20	< 20.0	< 20.0	0.80 J	< 5.0 UJ	< 2.0	5.1 J	< 20.0	< 100	< 100	**660**	**1400**	**150**	**8400**	< 0.010
	M013-C	2007 01 (Spring)	< 0.10	1.1 J	47.0	< 2.0	0.70 J	< 0.56	5.6	< 10.0	-	< 0.21	**9700**	< 0.20	2.0 J	6.5 J	< 5.0	< 5.0	< 5.0	< 6.0	< 6.2	< 16.0	25.0 J	**620**	**1100**	97.0	**6700 J**	-
		2006 03 (Fall)	< 1.0	0.96 J	45.0	< 2.0	0.63 J	< 10.0	5.6	1.5 J	-	< 3.0	**9600 J**	< 0.20	1.7 J	5.7 J	< 5.0	**5.0**	< 5.0	5.5 J	6.9 J	< 68.0	29.0 J	**610 J**	**1100 J**	98.0	**7400 J**	-
		2006 01 (Spring)	0.097 J	13.0	45.0	0.48 J	1.2 J	1.3 J	7.5	2.2 J	-	< 3.0	**9700**	< 0.20	2.1 J	4.5 J	**9.2**	4.3 J	< 5.0	0.52 J	< 20.0	< 100	< 100	**750**	**1400**	110	**8400**	-
		2005 02 (Summer)	0.21 J	5.4 J	57.0	< 2.0	0.78 J	< 50.0	6.7	< 50.0	-	< 3.0	**11000**	< 0.20	< 100	11.0 J	6.7 J	< 25.0	< 5.0	5.3 J	**67.0 J**	2.7 J	3400	**740**	**1400**	120	**8100**	-
		2004 04 (Winter)	0.33 J	< 5.0	52.0	< 2.0	< 5.0	1.4 J	7.6	3.9 J	-	0.51 J	**11000**	< 0.20	2.1 J	16.0 J	< 5.0	< 5.0	< 5.0	7.2 J	20.0	4.6 J	2200	**770**	**1400**	120	**8100**	-
		2004 02 (Summer)	0.25 J	< 1.0	49.0	< 1.0	< 1.0	< 1.5	6.9	8.8	-	0.26 J	**10000**	< 0.20	2.5 J	17.0	< 1.0	< 1.0	< 1.0	6.9	< 1.0	< 50.0	< 100	**710**	**1300**	120	**8300**	-
		2003 04 (Winter)	< 5.0	< 50.0	35.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	**7890**	< 0.40	**30.5 J**	12.2 J	< 20.0	< 10.0	< 10.0 UJ	6.5 J	< 20.0	< 200	< 100	**668**	**1170**	126	**7290**	-
		2003 02 (Summer)	10.8 J	< 50.0	46.9 J	< 4.0	1.8 J	< 10.0	8.0 J	< 10.0	-	< 10.0	**11100 J**	< 0.40 UJ	< 50.0	8.3 J	< 20.0	< 10.0	< 50.0	3.8 J	< 20.0	< 200	< 100	**825**	**1430**	133 J	**7120**	-
		2002 04 (Winter)	0.12 J	13.0 J	40.0 J	< 2.0	< 5.0	< 10.0 UJ	6.3 J	5.3 J	-	0.55 J	**8600**	< 0.20	< 20.0 UJ	12.0 J	**52.0**	< 5.0	< 2.0	6.2 J	< 20.0	8.1 J	< 37.0 J	**580**	**1000**	92.0	**6400**	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWBZ	M013-C	2002 02 (Summer)	< 50.0	< 5.0	42.0	< 2.0	< 5.0	< 10.0	6.7 J	< 10.0	< 10.0 UJ	< 3.0	**8800**	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	< 100	**680**	**1200**	95.0	**7500**	< 0.010
	M014-B	2007 01 (Spring)	< 0.10	1.3 J	82.0	< 2.0	0.16 J	< 0.59	7.2	< 10.0	-	< 3.0	**8400**	< 0.20	< 0.82	6.0 J	< 5.0	< 5.0	< 5.0	< 4.7	< 7.0	170	110	**490**	**790**	68.0	**6400 J**	-
		2006 03 (Fall)	< 1.0	1.4 J	70.0	< 2.0	0.59 J	< 10.0	7.3	0.96 J	-	< 3.0	**8300 J**	0.034 J	< 20.0	7.0 J	< 5.0	3.5 J	< 5.0	< 10.0	5.9 J	< 68.0	100	**450 J**	**770 J**	74.0	**6800 J**	-
		2006 01 (Spring)	0.40 J	12.0	82.0	0.67 J	1.7 J	2.7 J	6.5	1.8 J	-	0.16 J	**7500**	< 0.20	1.7 J	11.0 J	6.0	**5.3**	< 5.0	< 10.0	**43.0**	< 100	120	**490**	**850**	87.0	**7100**	-
		2005 02 (Summer)	0.19 J	1.3 J	82.0	0.084 J	< 5.0	1.2 J	8.4	2.8 J	-	0.57 J	**8300**	< 0.20	1.9 J	13.0 J	**24.0**	0.11 J	< 5.0	2.0 J	**74.0**	18.0 J	3400	**470**	**780**	69.0	**6300**	-
		2004 04 (Winter)	0.13 J	9.2	49.0	< 2.0	< 5.0	0.67 J	7.4	3.2 J	-	0.16 J	**9200**	< 0.20	0.85 J	11.0 J	**18.0**	< 5.0	< 5.0	1.6 J	13.0 J	3.3 J	1800	**450**	**790**	69.0	**6600**	-
		2004 02 (Summer)	0.41 J	< 1.0	44.0	< 1.0	< 1.0	< 1.4	8.1	13.0	-	0.13 J	**8700**	< 0.20	1.5 J	14.0	< 1.0	< 1.0	< 1.0	< 3.5	< 1.0	< 50.0	90.0 J	**500**	**880**	83.0	**7800**	-
		2003 04 (Winter)	< 5.0	< 50.0	51.3 J	< 4.0	< 5.0	< 10.0	< 10.7	< 10.0	-	< 10.0 UJ	**8240**	< 0.40	< 50.0	15.1 J	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	90.0 J	**431**	**812**	102	**7600**	-
		2003 02 (Summer)	< 50.0	< 50.0	43.3 J	< 4.0	0.59 J	< 10.0	9.6 J	< 10.0	-	< 10.0	**9530 J**	< 0.40 UJ	< 50.0	7.0 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	210	**538**	**943**	88.6 J	**6330**	-
		2002 04 (Winter)	0.14 J	15.0	< 40.0 UJ	< 2.0	< 5.0	< 10.0	7.6 J	**31.0**	-	< 3.0	**8300 J**	< 0.20	1.1 J	9.0 J	**55.0**	< 5.0 UJ	< 2.2	0.82 J	< 20.0	< 100	2700	**500 J**	**910 J**	69.0 J	**7000**	-
		2002 02 (Summer)	< 50.0	< 5.0	40.0	< 2.0	< 5.0	5.4 J	9.1 J	< 10.0	< 10.0 UJ	< 3.0	**7900**	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	300	**490**	**890**	80.0	**7100**	< 0.010
	M016-B	2007 01 (Spring)	< 0.20	2.0 J	52.0	< 2.0	1.9 J	< 0.45	13.0	**170**	-	0.28 J	**17000**	< 0.058	4.9 J	14.0 J	< 5.0	< 5.0	< 5.0	4.9 J	< 3.8	< 26.0	61.0 J	**790**	**1300**	140	**7500**	-
		2006 03 (Fall)	< 1.0	0.86 J	57.0	< 2.0	0.69 J	< 10.0	13.0	< 10.0	-	< 3.0	**15000 J**	< 0.20	< 20.0	12.0 J	0.45 J	**5.6 J**	< 5.0	< 10.0	31.0 J	< 22.0	74.0 J	**780 J**	**1300 J**	**150**	**7000 J**	-
		2006 01 (Spring)	< 1.0	11.0	49.0	0.80 J	2.1 J	2.0 J	14.0	< 10.0	-	< 3.0	**19000**	< 0.20	< 20.0	11.0 J	**9.5**	**6.4**	< 5.0	< 10.0	< 20.0	< 100	76.0 J	**870 J**	**1500 J**	130 J	**7800 J**	-
		2005 02 (Summer)	0.15 J	< 5.0	58.0	< 2.0	< 5.0	1.9 J	16.0	4.4 J	-	< 3.0	**17000**	< 0.20	< 20.0	**21.0**	**33.0**	< 5.0	0.28 J	3.7 J	**110**	2.3 J	5800	**800**	**1400**	**150**	**7100**	-
		2004 04 (Winter)	0.18 J	9.4	52.0	< 2.0	0.83 J	0.77 J	13.0	4.4 J	-	0.20 J	**16000**	< 0.20	0.68 J	17.0 J	< 5.0	< 5.0	< 5.0	2.5 J	19.0 J	2.5 J	2700	**820**	**1400**	**160**	**7900**	-
		2004 02 (Summer)	0.25 J	< 1.0	52.0	< 1.0	0.54 J	1.2 J	15.0	10.0	-	0.56 J	**16000**	< 0.20	0.97 J	**24.0**	< 1.0 J	< 5.0	< 1.0	3.4 J	< 20.0	3.4 J	87.0 J	**810**	**1400**	**160**	**7800**	-
		2003 04 (Winter)	< 25.0	< 50.0	42.1 J	< 4.0	< 5.0	< 10.0	< 11.5	< 10.0	-	< 10.0 UJ	**14000**	< 0.40	**36.3 J**	10.2 J	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	78.2 J	**856**	**1500**	**197**	**7970**	-
		2003 02 (Summer)	< 50.0	< 50.0	51.7 J	< 4.0	1.1 J	< 10.0	17.2	< 10.0	-	< 10.0	**17800 J**	< 0.40 UJ	< 50.0	14.2 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	112	**914**	**1610**	**183 J**	**6940**	-
		2002 04 (Winter)	0.13 J	12.0 J	53.0	< 2.0	< 5.0	< 10.0	13.0	6.4 J	-	0.42 J	**19000**	< 0.20	< 20.0 UJ	17.0 J	< 5.0 UJ	< 5.0	< 2.0	3.5 J	< 20.0	5.9 J	4100	**900**	**1500**	140	**8000**	-
		2002 02 (Summer)	0.092 J	14.0 J	47.0	< 2.0	< 5.0	< 10.0	14.0	< 10.0	< 10.0	< 3.0	**14000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	4.7 J	38.0 J	**770**	**1400**	140	**7300**	< 0.010
	M020-B	2007 01 (Spring)	< 0.63	3.3 J	110	0.61 J	< 5.0	< 1.1	0.60 J	0.51 J	-	< 1.7	690	< 0.20	< 20.0	< 20.0	< 5.0	0.57 J	0.56 J	8.0 J	23.0	72.0 J	5500	**190 J**	320	79.0	1900	-
		2006 03 (Fall)	< 1.0	1.6 J	130	< 2.0	< 5.0	< 10.0	0.21 J	< 10.0	-	< 3.0	770	< 0.20	< 20.0	< 20.0	< 5.0	1.8 J	< 5.0	< 10.0	9.4 J	< 100	5800	**200 J**	330 J	78.0	1900 J	-
		2006 01 (Spring)	< 1.0	< 5.0	110	0.51 J	< 5.0	< 10.0	< 1.0	< 10.0	-	< 3.0	750	< 0.20	2.8 J	< 20.0	< 5.0	2.5 J	3.4 J	< 10.0	< 20.0	< 100	6000	**190**	330	87.0	2100	-
		2005 02 (Summer)	0.22 J	4.0 J	110	< 2.0	< 5.0	1.3 J	0.50 J	1.3 J	-	< 3.0	690	< 0.20	< 20.0	3.0 J	6.2 J	< 5.0	< 5.0	1.3 J	31.0 J	< 100	**8000 J**	**180**	320	72.0	1900	-
		2004 04 (Winter)	0.083 J	6.1	110	< 2.0	< 5.0	0.89 J	0.45 J	0.98 J	-	0.31 J	730	< 0.20	0.38 J	3.5 J	**8.5**	< 5.0	< 5.0	0.86 J	5.8 J	3.7 J	**6900**	**200**	320	78.0	2000	-
		2004 02 (Summer)	0.12 J	7.0	110	< 2.0	< 5.0	< 10.0	0.64 J	< 10.0	-	0.061 J	760	< 0.20	< 20.0	< 20.0	**17.0 J**	< 5.0	< 1.0	< 10.0	< 20.0	< 100	**8000**	**210**	340	91.0	2200	-
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	94.1 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	656	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	**7970 J**	**195**	318	96.3	2330	-
		2003 02 (Summer)	< 50.0	< 50.0	118	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	-	< 10.0	846	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**10100 J**	**226**	**361**	90.6	2000	-

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWBZ	M020-B	2002 04 (Winter)	< 50.0	< 5.0	100	< 2.0	< 5.0	< 10.0	0.49 J	1.3 J	-	< 3.0	630	< 0.20	0.86 J	2.9 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	9900	200	310	77.0	2100	-
		2002 02 (Summer)	< 50.0	2.2 J	84.0	< 2.0	< 5.0	< 10.0	0.52 J	< 10.0	< 10.0	< 3.0	580	< 0.20	< 20.0	< 20.0	4.1 J	< 5.0	< 2.0	< 10.0	< 20.0	420	8600	190	310	77.0	2000	< 0.010 UJ
	M021-C	2007 01 (Spring)	< 0.18	2.2 J	87.0	< 2.0	< 5.0	< 1.7	0.59 J	< 10.0	-	< 0.16	620	0.074 J	< 0.33	0.61 J	< 5.0	< 5.0	< 5.0	< 3.9	9.7 J	130	6700	130	290	92.0	1600	-
		2006 03 (Fall)	< 1.0	2.6 J	90.0	< 2.0	< 5.0	< 10.0	0.49 J	< 10.0	-	< 3.0	590	< 0.20	< 20.0	< 20.0	< 5.0	1.3 J	< 5.0	< 10.0	20.0 J	< 100	6700	130	270 J	92.0	1400 J	-
		2006 01 (Spring)	< 1.0	< 5.0	82.0	0.45 J	< 5.0	2.3 J	0.41 J	0.75 J	-	< 3.0	660	< 0.20	1.0 J	< 20.0	< 5.0	2.0 J	1.7 J	< 10.0	< 20.0	< 100	6700	120	310	89.0	1600	-
		2005 02 (Summer)	< 1.0	4.1 J	86.0	< 2.0	< 5.0	2.4 J	0.82 J	0.97 J	-	< 3.0	660	< 0.20	< 20.0	2.4 J	6.2 J	< 5.0	< 5.0	1.8 J	28.0 J	32.0 J	7300 J	120	540	90.0	3000	-
		2004 04 (Winter)	2.5	8.5	85.0	< 2.0	< 5.0 UJ	1.9 J	0.78 J	1.9 J	-	0.16 J	690	< 0.20	0.40 J	3.3 J	14.0	< 5.0	0.58 J	1.8 J	16.0 J	3.0 J	8000	140	310	97.0	1600	-
		2004 02 (Summer)	< 1.0	5.3	85.0	< 2.0	< 5.0	< 10.0	0.90 J	< 10.0	-	0.073 J	640	0.091 J	< 20.0	< 20.0	8.9 J	< 5.0	< 1.0	< 10.0	< 20.0	< 100	6700	130	290	97.0	1600	-
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	84.1 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	640	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	7.9 J	< 200	7650 J	131	297	112	1730	-
		2003 02 (Summer)	< 50.0	< 50.0	88.8 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	-	< 10.0	711	< 0.40 UJ	< 50.0	1.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	7780 J	143	318	80.8	1520	-
		2002 04 (Winter)	< 50.0	2.6 J	95.0	< 2.0	< 5.0	< 10.0	0.83 J	1.5 J	-	0.063 J	610	< 0.20	0.40 J	2.7 J	< 5.0	< 5.0	0.66 J	2.8 J	< 20.0	3.1 J	8000	120	270	87.0	1400	-
		2002 02 (Summer)	< 50.0	4.6 J	82.0	< 2.0	< 5.0	< 10.0	< 10.0	12.0	< 10.0	< 3.0	590	< 0.20	< 20.0	< 20.0	14.0 J	< 5.0	< 2.0	< 10.0	< 37.0	< 100	6700	120	280	89.0	1600	< 0.010
	M023-B	2007 01 (Spring)	< 1.0	3.6 J	230	< 2.0	< 5.0	< 2.0	1.0	< 0.39	-	< 3.0	2000	< 0.20	0.89 J	0.79 J	< 5.0	< 5.0	< 5.0	4.7 J	< 20.0	< 100	9600	130	380	120	2300	-
		2006 03 (Fall)	< 1.0	3.5 J	210	< 2.0	< 5.0	1.7 J	0.96 J	< 10.0	-	< 3.0	1900	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	0.33 J	< 10.0	< 20.0	< 100	9200	120	330 J	110	2000 J	-
		2006 01 (Spring)	< 1.0	< 5.0	220	0.45 J	< 5.0	3.8 J	0.84 J	< 10.0	-	0.16 J	2100	< 0.20	1.6 J	< 20.0	< 5.0	2.1 J	< 5.0	< 10.0	< 20.0	< 100	8600	130	390	130	2300	-
		2005 02 (Summer)	< 1.0	3.8 J	190	< 2.0	< 5.0	< 10.0	1.1	1.5 J	-	< 3.0	1900	< 0.20	0.44 J	1.9 J	10.0	< 5.0	0.59 J	< 10.0	27.0	< 100	8500	100	290	94.0	1800	-
		2004 04 (Winter)	0.90 J	8.1	210	< 2.0	< 5.0 UJ	2.0 J	1.1	1.7 J	-	0.16 J	2100	< 0.20	0.37 J	2.6 J	22.0	< 5.0	< 5.0	1.6 J	13.0 J	2.9 J	12000	130	380	120	2100	-
		2004 02 (Summer)	< 1.0	4.7	210	< 1.0	< 1.0	2.4	1.3	1.1	-	0.099 J	2000	0.089 J	0.44 J	2.2	< 1.0 J	< 1.0	0.20 J	< 10.0	< 1.0	< 50.0	11000	130	350	110	2300	-
		2003 04 (Winter)	< 5.0	< 50.0	200	< 4.0	< 5.0	< 10.0	< 10.5	< 10.0	-	< 10.0	1950	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	10600	119	354	128	2340	-
		2003 02 (Summer)	< 50.0	< 50.0 UJ	230	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	-	< 10.0	2340	< 0.40 UJ	< 50.0	3.9 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	11900 J	143	404	105	2170	-
		2002 04 (Winter)	< 50.0	7.3	250	< 2.0	< 5.0	< 10.0	1.1 J	1.5 J	-	0.34 J	2400	< 0.20	0.49 J	1.9 J	17.0	< 5.0	< 2.0	1.4 J	< 20.0	15.0 J	9900	140	400	130	2500	-
		2002 02 (Summer)	< 50.0	5.3	170	< 2.0	< 5.0	12.0	< 10.0	< 10.0	< 10.0	< 3.0	2000	< 0.040 J	< 20.0	< 20.0	5.8	< 5.0	< 2.0	5.8 J	< 20.0	< 100	8300	120	350	110	2100	0.010 J
	M023-C	2007 01 (Spring)	< 0.18	< 0.96	170	< 2.0	< 5.0	< 1.4	0.28 J	13.0	-	0.49 J	540	< 0.20	< 0.28	1.4 J	< 5.0	< 5.0	< 5.0	< 4.8	13.0 J	260	540	120	300	90.0	2300	-
		2006 03 (Fall)	< 1.0	< 5.0	220	< 2.0	< 5.0	< 10.0	0.41 J	< 10.0	-	< 3.0	950	< 0.20	< 20.0	< 20.0	0.28 J	< 5.0	< 5.0	3.2 J	< 20.0	< 100	1600	130	290 J	92.0	2000 J	-
		2006 01 (Spring)	< 1.0	< 5.0	140	0.49 J	< 5.0	1.5 J	< 1.0	1.5 J	-	< 3.0	460	< 0.20	2.2 J	1.7 J	3.9 J	3.2 J	< 500	< 10.0	< 20.0	< 100	480	120	280	96.0	2300	-
		2005 02 (Summer)	< 1.0	< 5.0	260	< 2.0	< 5.0	10.0	1.1	0.97 J	-	< 3.0	1400	< 0.20	0.36 J	14.0 J	17.0	< 5.0	< 5.0	2.5 J	39.0	3.2 J	4500	110	290	87.0	1700	-
		2004 04 (Winter)	0.79 J	5.0	280	< 2.0	< 5.0 UJ	1.5 J	1.0	1.8 J	-	0.22 J	1500	< 0.20	1.0 J	3.3 J	18.0	< 5.0	< 5.0	1.8 J	16.0 J	8.0 J	6600	140	360	110	2200	-
		2004 02 (Summer)	0.075 J	2.9	330	< 1.0	< 1.0	2.4	1.2	1.6	-	0.13 J	1700	< 0.20	0.90 J	1.8	< 1.0 J	< 5.0	< 1.0	1.6 J	< 20.0	0.88 J	7600 J	140	350	110	2200	-
		2003 04 (Winter)	< 5.0	< 50.0	301	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	1480	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	7250	127	350	115	2160	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWQZ	M023-C	2003 02 (Summer)	< 50.0	< 50.0	346	< 4.0	< 5.0	1.3 J	< 10.0	1.7 J	-	< 10.0	1690	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**7450 J**	150	**389**	112	1980	-
		2002 04 (Winter)	< 50.0	5.0 J	330	< 2.0	< 5.0	< 10.0	0.94 J	1.5 J	-	0.37 J	1500	< 0.20	0.57 J	1.4 J	**16.0**	< 5.0	< 2.0	1.4 J	< 20.0	5.4 J	6500	130	340	100	2000	-
		2002 02 (Summer)	< 50.0	2.3 J	280	< 2.0	< 5.0	5.6 J	0.94 J	3.3 J	< 10.0	< 3.0	1500	< 0.20	< 20.0	< 20.0	**9.2**	< 5.0	< 2.0 UJ	< 10.0	< 20.0	4.7 J	6300	120	340	98.0	2100	< 0.010
	M036-B	2007 01 (Spring)	< 0.23	5.2	210	0.20 J	< 5.0	2.7 J	1.2	< 10.0	-	< 1.7	< 500	< 0.20	< 20.0	< 20.0	< 5.0	0.23 J	< 5.0	8.9 J	31.0	< 30.0	**9600**	130 J	**440**	130	2900	-
		2006 03 (Fall)	< 1.0	6.0	220	< 2.0	< 5.0	< 10.0	1.2	< 10.0	-	< 3.0	250	< 0.20	< 20.0	< 20.0	0.43 J	< 5.0	0.58 J	5.5 J	< 20.0	< 53.0	**9600**	110	350 J	110	2500 J	-
		2006 01 (Spring)	< 1.0	< 5.0	200	0.50 J	< 5.0	1.9 J	1.1	< 10.0	-	< 3.0	260	< 0.20	1.1 J	< 20.0	< 5.0	2.7 J	3.1 J	< 10.0	< 20.0	< 100	**9500**	110	**360**	120	2500	-
		2005 02 (Summer)	0.13 J	5.2	210	< 2.0	< 5.0	2.6 J	1.4	1.2 J	-	< 3.0	270	< 0.20	< 20.0	1.5 J	**10.0 J**	< 5.0	< 5.0	2.3 J	< 20.0	< 100	**9900**	110	**360**	110	2500	-
		2004 04 (Winter)	0.70 J	11.0	180 J	< 2.0	< 5.0	2.7 J	1.5	2.7 J	-	0.32 J	250	< 0.20	0.23 J	4.8 J	**22.0**	< 5.0	< 5.0	2.3 J	15.0 J	15.0 J	**10000**	110	**360**	110	2700	-
		2004 02 (Summer)	< 1.0	9.9	210	< 2.0	< 5.0	< 10.0	1.7	< 10.0	-	0.25 J	270	0.056 J	< 20.0	< 20.0	**19.0 J**	< 5.0	< 1.0	6.6 J	8.5 J	8.2 J	**10000**	110	**360**	120	2500	-
		2003 04 (Winter)	< 5.0	5.2 J	169	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	223	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**8930**	90.9	315	114	2310	-
		2003 02 (Summer)	< 50.0	11.5 J	221	< 4.0	< 5.0	3.0 J	1.7 J	< 10.0	-	< 10.0	308	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**12100**	125	**414**	107 J	2560	-
		2002 04 (Winter)	0.098 J	< 5.0	190	< 2.0	< 5.0	2.9 J	1.6 J	2.4 J	-	0.11 J	250	< 0.20	< 20.0	3.8 J	< 5.0	< 5.0	< 2.0	3.2 J	< 20.0	< 100	**9700**	100	310	110	2200	-
		2002 02 (Summer)	< 50.0	4.7 J	89.0	< 2.0	< 5.0	< 10.0	< 10.0	2.2 J	< 10.0	< 3.0 UJ	240	< 0.20	1.8 J	< 20.0	-	< 5.0	< 2.0	9.7 J	< 20.0	210	1900	100	**390**	110	2800	< 0.010
	M037-B	2007 01 (Spring)	0.54 J	3.2 J	**740 J**	0.46 J	< 5.0	< 10.0	0.82 J	0.84 J	-	< 0.51	**3500**	< 0.20	< 20.0	< 20.0	< 5.0	0.46 J	< 5.0	6.9 J	8.8 J	53.0 J	3300	**210**	250	56.0	1100	-
		2006 03 (Fall)	< 1.0	3.4 J	**880**	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	-	< 3.0	**3200 J**	0.035 J	< 20.0	< 20.0	0.33 J	< 5.0	0.90 J	< 10.0	7.2 J	< 68.0	5600	**200**	230 J	55.0	1100 J	-
		2006 01 (Spring)	< 1.0	< 5.0	**830**	0.42 J	< 5.0	2.1 J	0.19 J	0.74 J	-	< 3.0	**3200**	< 0.20	2.2 J	< 20.0	< 5.0	2.5 J	3.5 J	< 10.0	< 20.0	< 100	5100	**210**	250	57.0	1100	-
		2005 02 (Summer)	0.43 J	4.1 J	**720**	< 2.0	< 5.0	2.0 J	0.57 J	< 10.0	-	< 3.0	**3000 J**	< 0.20	< 20.0	4.1 J	2.0 J	< 5.0	< 5.0	1.2 J	28.0	< 100	**7800**	**170**	200	47.0	930	-
		2004 04 (Winter)	< 1.0	6.7	**850**	< 2.0	< 5.0	1.1 J	0.43 J	1.6 J	-	0.13 J	**3300**	< 0.20	< 20.0	1.9 J	**10.0**	< 5.0	< 5.0	0.87 J	7.8 J	3.6 J	5600	**220**	260	65.0	1300	-
		2004 02 (Summer)	< 1.0	4.3	**780**	< 2.0	< 5.0	< 10.0	0.46 J	< 10.0	-	0.064 J	**3300**	0.059 J	< 20.0	< 20.0	3.9 J	< 5.0	< 1.0	4.7 J	< 20.0	< 100	5800	**230**	270	61.0	1300	-
		2003 04 (Winter)	< 5.0	< 50.0	**750**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**2940**	< 0.40	12.7 J	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	5420	**192**	237	58.2	1090	-
		2003 02 (Summer)	< 50.0	< 50.0	**930**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**3810**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	2.4 J	< 200	**7290**	**244**	287	60.8 J	1180	-
		2002 04 (Winter)	0.063 J	3.2 J	**800**	< 2.0	0.11 J	1.6 J	0.50 J	1.0 J	-	0.29 J	**3100**	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 2.0	1.5 J	10.0 J	< 100	6400	**200**	240	56.0	1100	-
		2002 02 (Summer)	0.091 J	2.6 J	**650**	< 2.0	< 5.0	< 10.0	0.70 J	1.5 J	< 10.0	0.41 J	**3300**	< 0.20	0.60 J	6.6 J	1.0 J	< 5.0	< 2.0	3.6 J	< 20.0	420	6500	**190**	240	64.0	1200	< 0.010
	M038-B	2007 01 (Spring)	2.0	8.1	100 J	0.48 J	< 5.0	4.0 J	6.7	4.8 J	-	< 0.63	**12000**	< 0.20	< 20.0	7.6 J	< 5.0	0.52 J	0.32 J	8.7 J	9.1 J	51.0 J	590	**970**	**1500**	**180**	**6200**	-
		2006 03 (Fall)	< 1.0	2.4 J	120	< 2.0	0.068 J	< 10.0	2.5	< 10.0	-	< 3.0	**10000 J**	< 0.20	1.7 J	3.1 J	0.34 J	< 5.0	< 5.0	< 10.0	< 20.0	< 12.0	220	**890 J**	**1300 J**	**170**	**5500 J**	-
		2006 01 (Spring)	0.17 J	5.6	95.0	< 2.0	< 5.0	2.8 J	2.5	< 10.0	-	< 3.0	**13000**	< 0.20	< 20.0	2.8 J	5.6	**7.7**	< 5.0	< 10.0	< 20.0	30.0 J	160	**1100**	**1600**	**190**	**6900**	-
		2005 02 (Summer)	0.12 J	< 5.0	130	< 2.0	< 5.0	0.77 J	3.6	3.6 J	-	0.29 J	**11000 J**	< 0.20	2.2 J	6.7 J	**30.0 J**	< 5.0	< 5.0	2.9 J	**55.0**	< 100	2300 J	**910**	**1400**	**180**	**5800**	-
		2004 04 (Winter)	1.4	12.0	120	< 2.0	< 5.0	0.69 J	3.6	4.9 J	-	0.061 J	**10000**	< 0.20	1.9 J	12.0 J	< 5.0	< 5.0	< 5.0	2.0 J	23.0	1.3 J	4600	**950 J**	**1500**	**190 J**	**5800**	-
		2004 02 (Summer)	< 1.0	5.4	120	< 2.0	**6.2**	< 10.0	3.3	< 10.0	-	0.18 J	**11000**	< 0.20	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0 J	< 10.0	< 20.0	1.2 J	220	**1000**	**1500**	**210**	**6200**	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-6

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA	0.15
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710	NA
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWBZ	M038-B	2003 04 (Winter)	< 5.0	< 50.0	86.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	**8950**	< 0.40	**15.7 J**	14.7 J	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	205	**952**	**1460**	**223**	**6040**	-
		2003 02 (Summer)	< 500	< 500	124 J	< 40.0	< 50.0	< 100	15.7 J	< 100	-	< 100	**12900**	< 0.40	< 500	< 200	< 200	< 100	< 50.0	< 500	< 200	< 2000	< 1000	**1090**	**1780**	**233 J**	**6070**	-
		2002 04 (Winter)	0.11 J	< 5.0	97.0	< 2.0	< 5.0	2.2 J	5.0 J	6.9 J	-	0.15 J	**9700**	< 0.20	< 20.0	15.0 J	< 5.0	< 5.0	< 2.0	2.9 J	< 20.0	< 100	4800	**920**	**1400**	**180**	< 0.50	-
		2002 02 (Summer)	< 50.0	< 5.0	80.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 3.0	**9600**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	680	**940**	**1500**	**180**	**6100**	< 0.010 UJ
	M039-B	2007 01 (Spring)	< 1.0	< 5.0	52.0	< 2.0	< 5.0	< 0.48	11.0	< 10.0	-	< 1.7	**14000**	< 0.20	< 20.0	9.3 J	< 5.0	< 5.0	< 5.0	< 2.9	**47.0**	< 6.9	360	**1000 J**	**1600**	140	**6800**	-
		2006 03 (Fall)	< 1.0	1.1 J	47.0	< 2.0	0.24 J	< 10.0	11.0	< 10.0	-	< 3.0	**12000 J**	< 0.20	2.3 J	6.6 J	0.29 J	< 5.0	< 5.0	< 10.0	< 20.0	< 12.0	160	**910 J**	**1400 J**	120	**6200 J**	-
		2006 01 (Spring)	0.13 J	13.0	51.0	0.67 J	0.62 J	< 10.0	10.0	1.2 J	-	0.27 J	**14000**	< 0.20	3.3 J	7.5 J	2.9 J	**6.6**	3.1 J	< 10.0	7.4 J	< 100 UJ	180	**1000**	**1600**	130	**7100**	-
		2005 02 (Summer)	< 1.0	< 5.0	53.0	< 2.0	< 5.0	< 10.0	12.0	5.4 J	-	< 3.0	**13000**	< 0.20	3.9 J	17.0 J	**110**	< 5.0	0.11 J	2.3 J	**120**	5.1 J	5700	**860**	**1100**	130	**5300**	-
		2004 04 (Winter)	0.13 J	11.0	52.0	< 2.0	< 5.0	0.93 J	13.0	4.8 J	-	0.44 J	**13000**	< 0.20	2.7 J	18.0 J	< 5.0	< 5.0	< 5.0	2.5 J	22.0	3.1 J	4000 J	**940**	**1500**	140	**6400**	-
		2004 02 (Summer)	0.20 J	< 1.0	57.0	< 1.0	< 1.0	1.1 J	12.0	8.4	-	0.12 J	**13000**	< 0.20	2.9 J	18.0	< 1.0 J	< 5.0	< 1.0	2.1 J	< 20.0	3.1 J	190 J	**990**	**1500**	**160**	**7300**	-
		2003 04 (Winter)	< 5.0	< 50.0	47.1 J	< 4.0	< 5.0	< 10.0	< 16.4	< 10.0	-	< 10.0	**10400**	< 0.40	**17.3 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	187	**1010**	**1540**	**172**	**6960**	-
		2003 02 (Summer)	< 500	< 500	60.5 J	< 40.0	< 50.0	< 100	**29.9 J**	< 100	-	< 100	**13100**	< 0.40	< 500	< 200	< 200	**20.1 J**	< 5.0	< 500	< 200	< 2000	< 1000	**961**	**1670**	**173 J**	**6800**	-
		2002 04 (Winter)	0.17 J	< 5.0	65.0	< 2.0	0.37 J	1.5 J	12.0	7.8 J	-	0.051 J	**12000**	< 0.20	< 20.0	20.0	< 5.0	< 5.0	< 2.0	2.4 J	< 20.0	< 100	4000	**990**	**1500**	**150**	< 0.50	-
		2002 02 (Summer)	0.10 J	< 5.0	57.0	< 2.0	< 5.0	< 10.0	11.0	< 10.0	< 10.0	< 3.0	**11000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	4.0 J	190	**990**	**1500**	130	**6900**	< 0.010 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	442-MW1	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M011-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M012-A	2007 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M012-A	2005 02 (Summer)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.80
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M013-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M014-A	2007 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M014-A	2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M016-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.38	< 0.75	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.75
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M017-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 04 (Winter)	< 0.47 UJ	< 0.94 UJ	< 0.47 UJ	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M017-A	2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M018-A	2007 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 04 (Winter)	< 0.47 UJ	< 0.94 UJ	< 0.47 UJ	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M019-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.48 UJ	< 0.95 UJ	< 0.48 UJ	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M020-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M020-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.49 UJ	< 0.97 UJ	< 0.49 UJ	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M021-A	2007 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	0.15 J	0.15
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M022-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M022-A	2005 01 (Spring)	< 0.40 UJ	< 0.79 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.79
		2004 04 (Winter)	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M023-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2005 01 (Spring)	< 0.38 UJ	< 0.75 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.75
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M024-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.76
		2004 04 (Winter)	< 0.49 UJ	< 0.97 UJ	< 0.49 UJ	< 0.49	< 0.49	< 0.49	< 0.49	< 0.97

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M024-A	2004 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M024-E	2007 01 (Spring)	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2006 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
	M036-A	2007 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	0.89	< 0.48	< 0.48	< 0.48	0.89
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M037-A	2007 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
		2004 04 (Winter)	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M037-A	2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M037-E	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2005 01 (Spring)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M038-A	2007 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 01 (Spring)	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
		2004 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M039-A	2007 01 (Spring)	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-7

Groundwater Sample Analytical Results: Polychlorinated Biphenyls at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M039-A	2005 01 (Spring)	< 0.19	< 0.38	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.38
		2004 04 (Winter)	< 0.48 UJ	< 0.96 UJ	< 0.48 UJ	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-8

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	442-MW1	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2006 03 (Fall)	< 0.050	0.0040 J	0.0030 J	< 0.050	< 0.050	< 0.050	0.0030 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.014 J	< 0.040	< 0.47	< 4.7
	M011-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	0.010 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	0.0050 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.010 J	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	0.0050 J	< 0.10	< 0.10	< 0.10	< 0.10	0.040 J	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0080 J	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.010 J	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	0.030 J	< 0.050	< 0.050	< 0.050	0.010 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.010 J	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M012-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	0.041 J	< 0.040	< 0.48	< 4.8
	M013-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-8

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event	AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M013-A	2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M014-A	2007 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)		< 0.050	< 0.050	0.010 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.011 J	< 0.040	< 0.48	< 4.8
	M016-A	2007 01 (Spring)		< 0.050	< 0.050	0.040 J	0.0080 J	< 0.050	< 0.050	< 0.050	< 0.090	0.010 J	< 0.090	< 0.090	< 0.050	< 0.090	0.010 J	< 0.090	< 0.090	< 0.090	< 0.050	0.020 J	< 0.50	< 0.90
		2006 03 (Fall)		< 0.050	< 0.050	0.030 J	< 0.050	0.010 J	< 0.050	< 0.050	< 0.10	0.10	0.020 J	0.0060 J	0.0030 J	< 0.10	0.020 J	< 0.10	0.020 J	< 0.10	0.0040 J	0.0070 J	< 0.50	< 1.0
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.010 J	< 0.090	0.0090 J	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	0.010 J	< 0.090	0.0060 J	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.010 J	0.010 J	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	0.020 J	0.0060 J	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.040 J	< 0.090	< 0.090	0.020 J	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.0070 J	< 0.050	< 0.50	< 0.90
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0080 J	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	< 0.040	0.058 J	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M017-A	2007 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)		< 0.050	< 0.050	0.0040 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.050 UJ	0.010 J	< 0.50 UJ	< 1.0
		2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
	M018-A	2007 01 (Spring)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	3.8	< 0.10	< 0.20	0.030 J	< 0.20	< 0.20	0.030 J	< 0.10	< 0.10	< 1.0	< 1.9
		2006 03 (Fall)		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	4.5	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 4.8	< 9.5

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-8

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M018-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	0.0080 J	< 0.050	< 0.10	< 0.10	0.030 J	4.7	0.0030 J	< 0.10	< 0.10	< 0.10	< 0.10 UJ	0.030 J	< 0.050	0.030 J	< 0.50	< 1.0
		2005 02 (Summer)	< 0.10 UJ	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20 UJ	< 0.20	< 0.20 UJ	2.2	< 0.10	< 0.20	< 0.20	-	< 0.20	< 0.20	< 0.10	< 0.10	< 1.0 UJ	< 1.9
		2005 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	5.4	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.8
		2004 04 (Winter)	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.020 J	< 0.090	< 0.20	< 0.20	< 0.20	2.6	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.090	< 0.090	< 0.90	< 1.9
		2004 02 (Summer)	< 0.20	< 0.20 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40 J	< 0.40	< 0.40	2.3	< 0.20	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.20	< 0.20	< 1.9	< 3.8
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090	< 0.090	8.5	< 0.040	< 0.090	< 0.090	< 0.090 UJ	0.080 J	0.033 J	< 0.040	< 0.040	< 0.49	< 4.9
	M019-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2006 03 (Fall)	< 0.050	< 0.050	0.0050 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.050 UJ	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	0.014 J	< 0.040	< 0.47	< 4.7
	M020-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	0.0040 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050 UJ	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50 UJ	< 1.0
		2005 01 (Spring)	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.050 UJ	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8
	M021-A	2007 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 03 (Fall)	< 0.050	< 0.050	0.0070 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	0.010 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	0.040 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	< 0.050 UJ	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	0.0060 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-8

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event	AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M021-A	2004 01 (Spring)		< 0.040	< 0.040	0.036 J	0.015 J	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M022-A	2007 01 (Spring)		< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 2.4	< 2.4	< 2.4	< 2.4	< 1.2	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 1.2	< 1.2	< 12.0	< 24.0
		2006 03 (Fall)		< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	24.0	< 9.5	< 9.5	< 9.5	< 9.5	< 4.8	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 4.8	< 4.8	< 48.0	< 95.0
		2006 01 (Spring)		< 0.050	0.0050 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	0.0090 J	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)		-	0.010 J	< 0.050	< 0.050	< 0.050	0.0070 J	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.10	-	< 0.050	< 0.50 UJ	< 1.0
		2005 01 (Spring)		< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 2.5 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 2.5 UJ	< 2.5 UJ	< 25.0 UJ	< 50.0 UJ
		2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.0096 J	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8
	M023-A	2007 01 (Spring)		< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 4.7	< 4.7	< 4.7	< 4.7	< 2.4	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 2.4	< 2.4	< 24.0	< 47.0
		2006 03 (Fall)		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.6	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 4.8	< 9.5
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050	0.020 J	0.020 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	0.0050 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 4.8	< 9.6
		2005 01 (Spring)		< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	0.0070 J	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.050 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.050 UJ	< 0.050 UJ	< 0.50 UJ	< 0.90 UJ
		2004 04 (Winter)		0.010 J	0.020 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.0080 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0040 J	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
	M024-A	2007 01 (Spring)		0.070 J	0.0060 J	< 0.050	0.010 J	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	0.020 J	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0060 J	0.0030 J	< 0.50 UJ	< 1.0
		2006 03 (Fall)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.9	< 0.20	0.050 J	0.020 J	< 0.20	0.010 J	< 0.20	< 0.20	< 0.20	0.020 J	0.040 J	0.020 J	0.010 J	< 1.0	< 1.9
		2006 01 (Spring)		< 0.050	0.020 J	< 0.050	< 0.050	0.0050 J	< 0.050	0.0050 J	0.030 J	0.010 J	< 0.10	< 0.10	0.0070 J	< 0.10	< 0.10	0.020 J	< 0.10	< 0.10	0.0070 J	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.050 UJ	0.010 J	-	< 0.050 UJ	0.0060 J	< 0.050 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	0.030 J	< 0.10 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	0.010 J	0.010 J	0.010 J	< 0.050 UJ	< 0.50 UJ	< 1.0 UJ
		2005 01 (Spring)		< 0.050 UJ	< 0.050 UJ	0.050 J	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	0.040 J	< 0.10 UJ	< 0.10 UJ	0.010 J	< 0.10 UJ	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	0.0090 J	< 0.050 UJ	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)		< 0.050	< 0.050	0.090	0.010 J	< 0.050	0.0080 J	0.010 J	< 0.10	0.010 J	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	0.060 J	< 0.10	< 0.10	0.010 J	0.020 J	< 0.50	< 1.0
		2004 02 (Summer)		< 0.050	< 0.050	0.040 J	< 0.050	< 0.050	0.020 J	0.030 J	< 0.10	0.020 J	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)		< 0.040	0.032 J	0.16	0.044 J	< 0.040	< 0.040	0.032 J	0.056 J	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	0.18 J	< 4.8
	M024-E	2007 01 (Spring)		< 0.050	< 0.050 UJ	< 0.050	0.0060 J	< 0.050 UJ	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2006 03 (Fall)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.040 J	< 0.10	< 0.10	< 0.10	< 0.10	0.0090 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2006 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	M036-A	2007 01 (Spring)		< 0.050	< 0.050	0.030 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	0.020 J	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-8

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M036-A	2006 03 (Fall)	0.010 J	0.010 J	< 0.050	< 0.050	< 0.050	0.010 J	0.20	< 0.10	0.040 J	< 0.10	0.030 J	0.020 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.020 J	< 0.50	< 1.0
		2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	0.0090 J	0.0040 J	< 0.050	0.0060 J	0.020 J	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	-	0.0070 J	0.020 J	0.0050 J	< 0.050	0.0090 J	< 0.10	0.030 J	< 0.10	< 0.050	0.0070 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.0060 J	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	0.010 J	< 0.050	< 0.050	0.010 J	< 0.050	0.020 J	< 0.10	< 0.10	0.030 J	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	0.020 J	0.20	< 0.050	0.010 J	< 0.050	0.010 J	0.010 J	0.010 J	< 0.10	0.010 J	< 0.050	0.020 J	< 0.10	< 0.10	< 0.10	0.030 J	0.040 J	0.0080 J	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.010 J	0.020 J	< 0.10	0.020 J	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.020 J	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	0.17	0.12	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	0.022 J	< 0.090	< 0.090	< 0.040	0.048 J	< 0.49	< 4.9
	M037-A	2007 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	0.030 J	0.0040 J	< 0.050	< 0.050	0.020 J	< 0.10	< 0.10 UJ	0.080 J	0.030 J	< 0.10	< 0.10	< 0.10	0.010 J	< 0.10	0.050 J	< 0.050	< 0.50 UJ	< 1.0
		2006 03 (Fall)	< 0.050	0.080	< 0.050	< 0.050	< 0.050	< 0.050	0.040 J	< 0.10	0.040 J	0.020 J	0.10	0.020 J	< 0.10	< 0.10	0.020 J	< 0.10	0.040 J	0.010 J	0.060	0.10 J	< 1.0
		2006 01 (Spring)	< 0.20	< 0.20	0.10 J	0.030 J	< 0.20	< 0.20	< 0.20	0.050 J	< 0.50	< 0.50	< 0.50	0.050 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.8
		2005 02 (Summer)	< 0.050 UJ	0.010 J	0.0090 J	< 0.050 UJ	< 0.050 UJ	0.010 J	0.010 J	0.020 J	< 0.090 UJ	0.020 J	0.010 J	< 0.050 UJ	0.010 J	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	< 0.090 UJ	0.010 J	0.0040 J	< 0.50 UJ	< 0.90 UJ
		2005 01 (Spring)	< 0.050	< 0.050 UJ	0.060 J	< 0.050	0.010 J	0.030 J	0.030 J	0.060 J	< 0.10	0.020 J	< 0.10	< 0.050	0.020 J	< 0.10	< 0.10	< 0.10	< 0.10	0.020 J	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	< 0.050	0.010 J	0.060 J	< 0.10	0.040 J	< 0.10	< 0.050	0.030 J	0.020 J	< 0.10	< 0.10	0.020 J	0.020 J	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	0.040 J	< 0.050	< 0.050	0.030 J	< 0.050	0.020 J	< 0.090	0.020 J	< 0.090	0.040 J	0.020 J	< 0.090	0.020 J	< 0.090	< 0.090	0.020 J	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.23 J	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	0.082 J	0.038 J	< 0.090	< 0.040	0.018 J	0.28 J	< 4.8
	M037-E	2005 02 (Summer)	< 0.050	< 0.050	< 0.050	0.0030 J	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050 UJ	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050 UJ	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040 UJ	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090 UJ	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M038-A	2007 01 (Spring)	0.010 J	0.0080 J	< 0.050 UJ	0.010 J	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.10 UJ	0.020 J	< 0.10 UJ	0.030 J	0.030 J	< 0.10 UJ	< 0.10 UJ	0.030 J	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	0.010 J	< 0.50 UJ	< 1.0 UJ
		2006 03 (Fall)	0.010 J	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.040 J	< 0.10	0.030 J	< 0.10	0.080 J	0.020 J	< 0.10	< 0.10	0.020 J	0.040 J	0.020 J	0.010 J	0.030 J	< 0.50	< 1.0
		2006 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.9
		2005 02 (Summer)	< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.9
		2005 01 (Spring)	< 0.050	< 0.050 UJ	0.020 J	0.030 J	< 0.050	< 0.050	0.040 J	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	0.030 J	< 0.10	< 0.10	0.010 J	0.090 J	< 0.050	0.20 J	< 1.0
		2004 04 (Winter)	0.020 J	0.030 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	0.030 J	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.030 J	0.020 J	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.020 J	0.060 J	< 0.10	0.030 J	0.060 J	0.040 J	< 0.050	< 0.10	< 0.10	< 0.10	0.030 J	< 0.10	0.020 J	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	0.20	< 0.040	< 0.040	< 0.040	0.091	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090 UJ	< 0.090	< 0.090	< 0.040	0.018 J	0.17 J	< 4.9
	M039-A	2007 01 (Spring)	< 0.050 UJ	0.050 J	< 0.050 UJ	< 0.050 UJ	0.060 J	0.030 J	< 0.050 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	0.020 J	0.0070 J	< 0.10 UJ	< 0.10 UJ	0.20 J	< 0.10 UJ	< 0.10 UJ	< 0.050 UJ	0.020 J	< 0.50 UJ	< 1.0 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-8

Groundwater Sample Analytical Results Organochlorine Pesticides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																			
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M039-A	2006 03 (Fall)	0.10 J	0.10 J	< 0.20	< 0.20	< 0.20	0.030 J	4.1	< 0.50	0.050 J	0.10 J	< 0.50	0.030 J	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	0.060 J	0.050 J	< 2.4	< 4.8
		2006 01 (Spring)	< 0.050	< 0.050	0.040 J	0.040 J	0.0070 J	0.030 J	0.0070 J	< 0.10	0.030 J	< 0.10	< 0.10	0.040 J	0.020 J	< 0.10	< 0.10	0.020 J	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	-	< 0.050	< 0.050	< 0.050	-	< 0.10	< 0.10	0.030 J	< 0.10	0.0050 J	0.020 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	0.010 J	< 0.50	< 1.0
		2005 01 (Spring)	< 0.20	< 0.20 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 UJ	< 0.20	< 2.4 UJ	< 4.8
		2004 04 (Winter)	0.030 J	< 0.050	0.10 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	0.020 J	< 0.10	0.10 J	< 0.050	0.020 J	< 0.10	0.030 J	0.030 J	0.030 J	0.030 J	0.010 J	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	0.10 J	0.020 J	< 0.050	0.040 J	0.050 J	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.0090 J	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	0.25 J	< 0.040	< 0.040	< 0.040	< 0.040	0.080 J	< 0.090	< 0.090	< 0.090	0.36	< 0.090	< 0.090	0.22 J	< 0.090	< 0.090	< 0.040	0.20	0.17 J	< 4.7

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2007 01 (Spring)	1.8 J	7.2	0.99	< 5.0	0.99	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.62	-	< 0.20	0.53	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	8.1	0.43 J	< 5.0	0.43	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.72	-	< 0.20	0.56	-	< 10.0	-	< 10.0
		2006 01 (Spring)	< 3.0 UJ	7.1	0.55	< 5.0	0.55	-	-	1.3 J	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	11.1 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	< 3.0	0.22 J	< 5.0	0.22	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	5.4 J	0.37 J	< 5.0	0.37	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	7.7	< 0.53	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 999	< 10.0
		2004 01 (Spring)	< 1.9	11.4	0.51	< 0.98	0.51	< 5.6	-	< 0.34	< 124	< 26.1	< 47.8	< 9.1	< 6.3	< 195	< 726	< 187	0.71	< 0.16	-	0.63	-	< 11.6	< 1340	< 10.6
		2003 04 (Winter)	0.70	9.1	1.6	5.1	6.8	-	-	< 1.8	< 178	< 49.5	< 222	< 28.0	< 27.0	< 185	< 2370	< 221	-	-	-	-	-	111	< 193	< 15.2
		2003 03 (Fall)	< 2.1	17.8	< 0.74	< 3.2	-	-	-	2.9	< 354	< 73.9	< 129	< 24.0	< 58.6	< 178	< 1010	< 141	-	-	-	-	-	170	< 119	< 24.1
		2003 02 (Summer)	< 2.6	15.3 J	1.2	< 4.6	1.2	-	-	< 2.0	< 261	< 65.1	< 159	< 22.2	47.5	< 174	< 1930	< 155	-	-	-	-	-	< 6.2	< 741	< 31.5
		2003 01 (Spring)	4.4 J	12.8	< 1.1	< 4.0	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	1.7	6.4	0.64	-	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	3.1	12.8	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.2	7.5	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M011-A	2007 01 (Spring)	< 3.0	66.6	1.5	< 5.0	1.5	-	-	< 5.0	77.1 J	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	17.4	< 750	16.2
		2006 03 (Fall)	< 3.0	54.7	0.56	1.7 J	2.3	-	-	< 5.0	59.4 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.58	-	< 0.20	< 0.46	-	15.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	17.0	< 0.50	< 5.0	-	-	-	< 5.0	58.5 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.4	-	< 0.20	1.0	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	0.58	< 5.0	0.58	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 15.5	19.9	0.25 J	< 5.0	0.25	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 47.8	38.7 J	1.0	< 5.0	1.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 38.9	102	1.6	< 5.0	1.6	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.55	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 7.5	38.1	0.36	1.6	1.9	< 3.0	-	1.0	< 98.9	< 16.2	< 28.5	< 5.3	< 3.9	< 179	< 425	< 91.4	1.2	< 0.25	-	0.88	-	< 7.0	< 228	< 6.2
		2003 04 (Winter)	< 20.2	50.3 J	< 0.85	6.5	6.5	-	-	2.7	< 55.0	< 38.9	< 144	< 16.0	< 32.1	< 188	< 2320	< 32.0	-	-	-	-	-	< 34.0	< 221	43.8
		2003 03 (Fall)	< 28.0	86.3	< 3.1	< 4.1	-	-	-	< 3.1	598	< 37.1	< 213	< 22.6	< 32.5	< 171	< 968	< 164	-	-	-	-	-	< 62.1	< 584	< 26.6
		2003 02 (Summer)	< 25.4	79.4	2.5	6.8	9.4	-	-	4.1	449	< 53.9	< 122	< 30.8	< 26.2	< 178	< 1460	< 12.7	-	-	-	-	-	< 57.7	< 613	< 22.5
		2003 01 (Spring)	< 16.1 UJ	47.8	< 1.1	< 5.1	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 177	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2002 04 (Winter)	< 26.9 UJ	91.2	2.9	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	3.5	56.4	< 0.57 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.4	112	0.68	-	0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M012-A	2007 01 (Spring)	1.2 J	4.1	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.17 J	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 03 (Fall)	2.6 J	3.4	0.17 J	< 5.0	0.17	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.22	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	< 3.0	0.25 J	< 5.0	0.25	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.068 J	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	8.8 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	3.6 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	< 3.0	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.39	5.2	< 0.12	< 0.76	-	< 4.3	-	< 0.81	< 51.7	< 19.9	< 35.7	< 12.1	< 4.9	< 179	< 545	< 90.2	< 0.21	< 0.26	-	< 0.21	-	< 9.5	< 113	< 8.7
		2003 04 (Winter)	< 1.2	5.8 J	< 0.60	< 3.9	-	-	-	< 1.5	< 87.0	< 48.5	< 141	< 3.1	< 41.8	< 189	< 1390	< 91.0	-	-	-	-	-	< 34.0	< 351	< 24.0
		2003 03 (Fall)	< 1.2	6.7	< 1.6	< 3.3	-	-	-	< 2.5	476	< 68.6	< 125	< 15.9	< 31.7	< 172	< 1000	< 557	-	-	-	-	-	< 51.9	< 677	< 35.7
		2003 02 (Summer)	< 0.84	1.6 J	< 0.43	< 3.5	-	-	-	< 3.0	< 268	< 44.0	< 209	< 29.6	< 47.4	< 175	< 1850	< 94.1	-	-	-	-	-	< 25.7	< 583	< 36.0
		2003 01 (Spring)	< 0.51 UJ	4.0	1.3	8.1	9.5	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 161	< 1190	< 178	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.5 UJ	7.2	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 3.5	< 13.0	< 0.67 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	3.2	11.0	< 0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M013-A	2007 01 (Spring)	< 3.0	7.7	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	18.4	< 750	15.5
		2006 03 (Fall)	< 3.0	5.7	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	8.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.41	-	0.043 J	0.42	1.6	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	5.8 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	4.3	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	4.0 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	4.6	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.41	3.9	< 0.14	< 0.72	-	< 6.1	-	< 0.89	< 156	< 25.7	< 50.0	< 9.2	< 6.7	< 177	< 752	< 191	< 0.19	< 0.23	-	< 0.19	-	< 10.8	< 1160	< 17.2
		2003 04 (Winter)	< 0.29	6.2	< 0.74	< 3.5	-	-	-	< 2.1	< 295	< 61.4	< 72.4	< 11.0	< 43.2	< 186	< 2280	< 293	-	-	-	-	-	< 117	< 229	< 22.4

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2003 03 (Fall)	< 0.40	3.6	< 1.4	< 3.0	-	-	-	< 2.1	< 209	< 33.6	< 189	< 25.9	< 34.2	< 171	< 2210	< 213	-	-	-	-	-	< 58.2	< 574	< 27.7
		2003 02 (Summer)	< 0.63	2.3 J	1.5	< 4.9	1.5	-	-	< 2.0	< 299	< 38.3	< 164	< 14.9	< 28.7	< 174	< 1050	< 120	-	-	-	-	-	< 4.9	< 639	< 33.4
		2003 01 (Spring)	1.3 J	3.6	< 1.2	< 4.8	-	-	-	< 1.8	< 201	< 52.0	< 197	< 29.2	< 24.0	< 180	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.61 UJ	5.2	< 0.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.4	6.7	< 0.67 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 7.9	11.6	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M014-A	2007 01 (Spring)	< 3.0	3.2	< 0.50	< 5.0	-	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	18400	-	< 250	0.044 J	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	0.49 J	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	< 3.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	1.4 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	< 3.0	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 994	< 10.0
		2004 01 (Spring)	< 0.25	2.7	< 0.11	< 0.89	-	< 3.3	-	< 0.40	< 34.4	< 13.3	< 23.9	< 4.6	< 3.2	< 182	< 350	< 60.4	< 0.19	< 0.23	-	< 0.19	-	< 6.4	< 118	< 6.1
		2003 04 (Winter)	< 0.26	2.5	< 0.98	< 3.5	-	-	-	< 2.0	< 295	< 40.8	< 206	< 29.0	< 51.0	< 186	< 951	< 62.0	-	-	-	-	-	< 188	< 292	< 33.8
		2003 03 (Fall)	< 0.23 UJ	7.7 J	< 1.7	< 3.0	-	-	-	< 2.2	< 299	< 62.5	< 120	< 25.1	< 45.8	< 184	< 832	< 216	-	-	-	-	-	< 61.2	< 624	< 43.1
		2003 02 (Summer)	< 0.44	1.1 J	3.0	< 5.5	3.0	-	-	< 2.2	< 235	< 49.5	< 206	< 18.5	35.9	< 174	< 1050	< 125	-	-	-	-	-	< 15.2	< 586	< 13.5
		2003 01 (Spring)	< 0.46 UJ	3.1	< 1.0	< 3.5	-	-	-	< 2.3	< 201	< 52.0	< 197	< 27.0	< 24.0	< 180	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.34 UJ	2.6	< 0.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.4	3.9	< 0.68 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.1	< 12.0	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M016-A	2005 02 (Summer)	< 3.0	89.1	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 37.9	78.9	0.16 J	< 5.0	0.16	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 63.9	97.6 J	0.38 J	< 5.0	0.38	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 21.0	92.0	< 0.21	< 0.79	-	< 7.3	< 8.7	0.91	< 141	< 46.0	< 114	< 13.7	< 8.1	< 380	-	< 99.0	< 0.20	< 0.20	-	< 0.20	-	< 21.0 UJ	-	< 19.0 UJ
		2004 01 (Spring)	< 9.5	90.6	< 0.19	2.5	2.5	< 5.0	-	< 0.92	< 108	< 20.8	< 36.3	< 6.6	< 4.9	< 265	< 579	< 103	0.19	< 0.034	-	0.16	-	< 10.3	< 322	< 8.2
		2003 04 (Winter)	< 47.7	152	< 0.52	< 4.5	-	-	-	< 2.1	449	< 48.9	< 196	< 26.7	< 51.5	< 171	< 1290	< 316	-	-	-	-	-	70.1	< 786	< 22.0

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2003 03 (Fall)	< 39.2	177	< 2.0	< 4.7	-	-	-	< 3.3	< 215	< 30.9	< 181	< 29.0	< 28.4	< 335	< 1540	< 176	-	-	-	-	-	< 44.7	< 715	< 31.3
		2003 02 (Summer)	< 14.4	42.5 J	3.0	< 5.5	3.0	-	-	< 1.9	< 5.9	< 65.1	< 207	< 14.3	< 50.8	< 191	< 1650	< 199	-	-	-	-	-	< 45.1	< 741	< 19.4
		2003 01 (Spring)	< 5.2 UJ	80.3	< 1.2	< 3.4	-	-	-	< 2.0	< 201	< 52.0	< 197	< 27.0	< 24.0	382	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 54.9 UJ	231	< 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.4	86.7	< 0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.2	66.9	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M016-E	2007 01 (Spring)	< 3.0	102	1.4	1.5 J	2.9	-	-	< 5.0	87.7 J	< 20.0	< 50.0	< 15.0	< 10.0	2790	-	< 250	< 0.20	-	< 0.20	< 0.20	-	19.0	< 750	12.7
		2006 03 (Fall)	< 3.0	90.6	0.36 J	2.0 J	2.4	-	-	< 5.0	120	< 20.0	< 50.0	< 15.0	< 10.0	2640	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	76.2	5.9	< 5.0	5.9	-	-	1.4 J	72.7 J	< 20.0	< 50.0	< 15.0	< 10.0	3620	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	110	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	3070	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 43.4	55.3	0.41 J	< 5.0	0.41	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 45.2	83.4 J	0.99	< 5.0	0.99	-	-	-	-	-	-	-	-	404 J	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 21.0	106	< 0.37	< 1.2	-	< 9.7	< 10.7	< 0.44	< 160	< 48.0	< 117	< 15.2	< 11.2	3290	-	< 95.0	< 0.20	< 0.20	-	< 0.20	-	< 17.0 UJ	-	< 22.0 UJ
		2004 01 (Spring)	< 27.6	123	1.7	2.2	3.9	-	-	< 2.4	< 148	< 32.1	< 65.2	< 8.3	< 20.0	3810	< 788	< 89.9	-	-	-	-	-	< 18.5	< 245	23.4
		2003 04 (Winter)	< 38.5	144	1.2	< 3.6	1.2	-	-	< 2.2	< 276	< 46.5	< 201	< 26.3	< 40.9	498	< 1620	< 231	-	-	-	-	-	46.2	< 712	< 26.1
		2003 03 (Fall)	< 26.0	166 J	< 3.0	8.0	8.0	-	-	< 2.6	< 354	< 72.0	< 175	< 12.7	< 31.4	804	< 1600	< 270	-	-	-	-	-	< 33.3	< 685	< 40.9
		2003 02 (Summer)	< 17.0	103 J	1.9	< 5.5	1.9	-	-	< 2.2	< 54.8	< 63.8	< 193	< 16.3	< 56.4	3200	< 960	< 58.9	-	-	-	-	-	< 57.2	< 600	< 33.2
		2003 01 (Spring)	< 27.3 UJ	130	1.9	< 6.5 UJ	1.9	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	3530	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 43.9 UJ	235	2.0	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	2.8	124	0.61	-	0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.4	63.0	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M017-A	2007 01 (Spring)	< 3.0	178	1.0	< 5.0	1.0	-	-	< 5.0	150	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	2.8	-	0.15 J	2.1	-	24.1	< 750	26.0
		2006 03 (Fall)	< 3.0	144	0.35 J	< 5.0	0.35	-	-	< 5.0	134	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.2	-	< 0.20	3.0	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	137	< 0.50	< 5.0	-	-	-	< 5.0	153	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.0	-	< 0.20	2.4	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	267	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 57.5	115	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 45.1 UJ	175 J	0.70	< 5.0	0.70	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M017-A	2004 02 (Summer)	< 29.0	139	< 0.22	< 0.98	-	< 8.0	< 10.8	< 0.77	207	< 39.0	< 117	< 12.2	< 7.8	< 380	-	< 144	1.4	< 0.20	-	0.97	-	< 25.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 42.8	< 98.8	< 0.18	< 1.2	-	< 4.4	-	< 0.78	< 63.0	< 18.0	< 31.9	< 6.8	< 4.5	< 195	< 568	< 86.7	0.82	< 0.038	-	0.64	-	< 8.7	146	< 8.9
		2003 04 (Winter)	< 31.9	288	< 1.3	7.0	7.0	-	-	< 2.7	445	< 44.7	< 218	< 37.0	< 40.3	< 187	< 1720	< 194	-	-	-	-	-	< 20.0	< 197	< 21.4
		2003 03 (Fall)	< 58.2	235 J	< 1.8	< 3.9	-	-	-	< 2.4	< 188	< 61.8	< 175	< 22.4	< 47.5	< 184	< 1470	< 216	-	-	-	-	-	< 69.1	< 803	< 33.8
		2003 02 (Summer)	< 45.0	276 J	< 0.54	< 3.9	-	-	-	< 2.1	< 235	< 66.8	< 167	< 19.9	< 57.7	< 176	< 1780	< 158	-	-	-	-	-	< 9.1	< 592	< 30.4
		2003 01 (Spring)	< 65.6 UJ	233	< 0.98	< 3.2	-	-	-	< 1.8	518	< 52.0	< 197	< 27.0	< 24.0	< 189	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 59.9 UJ	291	2.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 8.7	306	< 0.74 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.9	693	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M018-A	2005 02 (Summer)	< 3.0	152	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 48.6	88.7	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 45.4 UJ	160 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 24.0	141	< 0.18	< 0.82	-	< 8.0	< 11.3	< 0.56	< 230	< 43.0	< 122	< 19.0	< 12.1	< 380	-	< 150	1.8	< 0.20	-	1.3	-	< 23.0 UJ	-	< 20.0 UJ
		2004 01 (Spring)	< 20.4	127	< 0.17	< 1.1	-	< 2.1	-	< 0.89	146	< 9.3	< 16.5	< 3.3	< 2.5	< 188	< 294	< 60.6	0.46	< 0.031	-	0.43	-	< 4.2	< 269	< 3.9
		2003 04 (Winter)	< 30.3	141	< 0.96	< 3.2	-	-	-	< 2.8	522	< 78.9	< 185	< 17.0	< 33.0	< 188	< 1980	< 210	-	-	-	-	-	< 31.2	< 192	< 20.1
		2003 03 (Fall)	< 31.6	201 J	< 1.00	< 3.4	-	-	-	< 2.0	< 395	< 33.9	< 121	< 23.6	< 30.6	< 183	< 1760	< 387	-	-	-	-	-	< 51.6	< 619	< 25.5
		2003 02 (Summer)	< 29.4	144 J	1.5	< 4.8	1.5	-	-	< 2.2	< 264	< 51.4	< 213	< 25.0	< 43.3	< 173	< 1820	< 176	-	-	-	-	-	< 0.74	< 619	< 26.0
		2003 01 (Spring)	< 31.7 UJ	134	< 0.67	< 3.5	-	-	-	< 1.9	< 267	< 52.0	< 197	< 27.0	< 24.0	< 191	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 38.2 UJ	161	< 0.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	10.8	178	< 0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.6	< 130	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M018-E	2007 01 (Spring)	< 3.0	347	4.9	2.5 J	7.5	-	-	< 5.0	314	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.42	-	< 0.20	< 0.25	-	< 10.0	< 750	-
		2006 03 (Fall)	< 3.0	288	1.7	2.5 J	4.1	-	-	< 5.0	303	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.35	-	< 0.20	0.20 J	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	307	1.5	< 5.0	1.5	-	-	< 5.0	307	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.48	-	< 0.20	0.25	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	431	1.3 J	< 5.0	1.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 53.6 UJ	245 J	1.8	3.5 J	5.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 57.0	305	1.6	2.8	4.4	< 9.3	< 10.4	< 1.1 UJ	< 260	< 37.0	< 127	< 15.3	< 11.3	< 380	-	< 94.0	0.43	< 0.20	-	0.43	-	< 25.0 UJ	-	< 13.8 UJ

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event	AWQC: NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-E	2003 04 (Winter)	< 73.3	440	3.4	< 2.9	3.4	-	-	< 2.3	842	< 68.8	< 132	< 26.0	< 47.6	< 188	< 2420	< 345	-	-	-	-	-	< 30.0	< 217	32.6
		2003 02 (Summer)	< 91.4	318 J	2.4	< 4.3	2.4	-	-	< 2.1	< 99.1	< 53.6	< 153	< 16.3	< 53.9	< 260	< 1790	< 223	-	-	-	-	-	< 12.0	< 705	< 24.0
		2002 04 (Winter)	< 104 UJ	315	2.3	-	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 29.0	3430	0.65	-	0.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M019-A	2005 02 (Summer)	< 3.0 UJ	245 J	0.47 J	2.1 J	2.5	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 181	281 J	0.24	2.7	2.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 64.9 UJ	171 J	1.3	5.0 J	6.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 43.0	215	< 0.32	2.0	2.0	< 8.7	< 10.3	< 0.34	< 210	< 50.0	< 112	< 16.6	< 12.9	< 380	-	< 102	< 0.75	< 0.20	-	0.49	-	< 22.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 52.4	197	< 0.12	1.4	1.4	< 4.9	-	< 0.29	279	< 22.8	< 37.8	< 7.2	< 5.1	< 189	< 584	< 107	1.1	< 0.16	-	0.80	-	< 9.3	< 346	< 8.7
		2003 04 (Winter)	< 50.8	257	1.7	< 3.2	1.7	-	-	< 1.8	749	< 59.3	< 204	< 17.2	< 50.7	< 171	< 1760	< 284	-	-	-	-	-	211	< 765	< 34.0
		2003 03 (Fall)	< 74.0	243 J	< 1.1	< 3.6	-	-	-	< 1.8	< 245	< 37.1	< 185	< 24.0	< 42.7	< 186	< 1190	< 196	-	-	-	-	-	< 51.6	< 674	< 52.7
		2003 02 (Summer)	< 42.4	211 J	< 0.99	< 5.1	-	-	-	< 2.4	568	< 48.7	< 47.1	< 18.3	< 58.5	< 175	< 1150	< 50.3	-	-	-	-	-	< 16.4	< 713	< 33.7
		2003 01 (Spring)	< 36.7 UJ	212	< 0.95	< 3.4	-	-	-	< 1.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1190	< 184	-	-	-	-	-	124	< 602	< 34.0
		2002 04 (Winter)	< 78.8 UJ	320	2.5	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 13.0	407	0.66	-	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 5.7	319	< 0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M019-E	2007 01 (Spring)	< 3.0	288	3.1	2.7 J	5.8	-	-	< 5.0	229	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.5	-	< 0.12	1.2	-	-	< 750	< 10.0
		2006 03 (Fall)	< 3.0	295	0.63	4.3 J	4.9	-	-	< 5.0	245	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.3	-	< 0.20	1.2	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	246 J	0.48 J	< 5.0	0.48	-	-	< 5.0	299	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.6	-	< 0.20	1.4	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	138 J	224	0.79 J	4.0 J	4.8	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 105 UJ	187 J	1.1	4.9 J	5.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 54.0	193	0.68	2.7	3.3	< 9.2	< 12.8	< 0.50 UJ	< 160	< 51.0	< 135	< 16.0	< 11.8	< 380	-	< 98.0	1.5	< 0.20	-	1.1	-	< 25.0 UJ	-	< 21.0 UJ
		2003 04 (Winter)	< 67.5	165	1.5	< 4.5	1.5	-	-	< 2.0	919	< 63.7	< 163	< 14.7	< 50.0	< 170	< 2060	< 205	-	-	-	-	-	62.4	< 578	< 20.0
		2003 02 (Summer)	< 70.0	149 J	2.6	< 4.4	2.6	-	-	< 2.6	520	< 70.6	< 104	< 26.0	< 38.3	< 174	< 2040	< 196	-	-	-	-	-	< 17.0	< 656	< 40.1
		2002 04 (Winter)	< 74.7 UJ	254	2.5	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	7.9	178	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M020-A	2005 02 (Summer)	33.8 J	293	3.9 J	< 5.0	3.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2005 01 (Spring)	< 45.7	< 71.6	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 90.9 UJ	105 J	0.68	3.7 J	4.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 28.0	153	< 0.29	< 0.88	-	< 8.2	< 10.1	< 0.57	< 172	< 38.0	< 119	< 11.6	< 10.0	< 380	-	< 125	0.46	< 0.20	-	0.59	-	< 24.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 7.2	71.9	< 0.14	< 1.1	-	< 5.0	-	< 0.28	121	< 21.7	< 34.5	< 6.9	< 5.1	< 189	< 621	< 106	0.40	< 0.17	-	0.36	-	< 9.8	< 337	< 8.5
		2003 04 (Winter)	< 33.9	234 J	1.3	5.1	6.4	< 7.4	-	< 0.76	216	< 37.4	< 61.3	< 11.4	< 7.3	< 196	< 1070	< 168	0.61	< 0.026	-	0.53	-	< 13.1	< 529	< 14.3
		2003 03 (Fall)	< 39.9	256 J	< 1.3	< 4.6	-	-	-	< 1.7	< 385	< 56.4	< 156	< 17.4	< 46.7	< 188	< 1550	< 290	-	-	-	-	-	< 68.8	< 788	< 36.4
		2003 02 (Summer)	< 28.4 UJ	180	< 1.4	< 5.6	-	-	-	< 2.3	1050	70.3	< 135	< 40.8	< 30.7	< 197	< 2420	< 164	-	-	-	-	-	< 30.8	< 794	< 23.3
		2003 01 (Spring)	< 18.2 UJ	118	< 1.0	< 3.2	-	-	-	< 2.1	< 201	< 52.0	< 197	< 27.0	< 24.0	< 186	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 55.1 UJ	285	2.4	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	4.0	109	1.1	-	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 5.7	454	< 0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M020-E	2007 01 (Spring)	< 3.0	512	5.5	5.4	10.9	-	-	< 5.0	292	-	< 50.0	< 15.0	< 10.0	< 500	-	-	< 0.27	-	< 0.20	0.27	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	1.5	5.0	6.5	-	-	< 5.0	278	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	0.34	-	< 0.20	0.24	-	< 10.0	-	< 10.0
		2006 01 (Spring)	< 3.0	270	2.1	3.4 J	5.4	-	-	< 5.0	294	< 20.0	< 50.0	< 15.0	< 10.0	450 J	-	< 250	0.36	-	< 0.20	0.24	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	1.1 J	4.6 J	5.8	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 205	< 343	2.3	5.8	8.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 87.9 UJ	227 J	2.3	5.6	7.8	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 67.0	193	1.5	5.2	6.7	< 6.4	< 6.9	< 0.59 UJ	292	< 23.0	< 94.0	< 11.8	< 6.5	< 380	-	< 93.0	< 0.40	< 0.20	-	< 0.41	-	< 22.0 UJ	-	< 10.3 UJ
		2004 01 (Spring)	< 52.5	195	5.1	4.7	9.8	-	-	< 1.7	< 136	< 21.4	< 86.8	< 8.8	< 32.2	< 183	< 946	< 138	-	-	-	-	-	< 14.7	< 167	< 23.0
		2003 04 (Winter)	< 47.8	238 J	2.7	4.3	7.0	< 6.5	-	< 0.89	263	< 27.3	< 43.7	< 9.3	< 6.4	< 189	< 713	< 191	0.48	< 0.027	-	0.44	-	< 12.2	< 1360	< 11.3
		2003 03 (Fall)	< 62.5	255 J	< 2.7	5.9	5.9	-	-	< 2.0	424	< 65.0	< 154	< 24.5	< 52.1	< 185	< 1470	< 230	-	-	-	-	-	< 79.3	< 558	< 50.4
		2003 02 (Summer)	< 41.0	248	3.5	11.8	15.3	-	-	< 2.7	1090	< 64.6	< 166	< 38.6	< 33.0	< 174	< 1290	< 129	-	-	-	-	-	< 34.2	< 526	< 38.7
		2003 01 (Spring)	< 103 UJ	262	1.9	< 4.7	1.9	-	-	< 1.7	453	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 64.9 UJ	294	2.5	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 18.0	407	0.75	-	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.6	546	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M021-A	2005 02 (Summer)	< 3.0 UJ	116 J	0.70	< 5.0	0.70	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-A	2005 01 (Spring)	< 35.8	< 67.7	0.23	< 5.0	0.23	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 35.3	157 J	0.92	< 5.0	0.92	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 27.0	137	< 0.46	< 1.2	-	< 8.5	< 10.6	< 0.60	< 170	< 45.0	< 180	< 13.7	< 10.2	< 380	-	< 140	< 0.46	< 0.20	-	< 0.23	-	< 26.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 11.4	77.4	< 0.11	< 1.1	-	< 4.1	-	< 0.33	< 121	< 18.9	< 32.9	< 6.3	< 4.3	< 189	< 580	< 131	< 0.16	< 0.17	-	< 0.18	-	< 7.8	< 794	< 7.3
		2003 04 (Winter)	< 57.1	< 140 UJ	1.4	2.7	4.1	< 6.8	-	< 0.57	< 185	< 28.9	< 53.4	< 9.7	< 6.8	< 188	< 851	< 113	0.26	< 0.028	-	0.21	-	< 14.5	< 248	< 13.7
		2003 03 (Fall)	< 117	397 J	2.0	< 3.7	2.0	-	-	< 1.6	544 J	< 50.7	< 157	< 26.7	< 24.8	< 181	< 1280	< 220	-	-	-	-	-	< 68.4	< 734	< 37.7
		2003 02 (Summer)	< 23.3	179	< 1.4	< 5.0	-	-	-	< 2.4	< 243	< 40.8	< 149	< 23.4	< 38.3	< 174	< 2030	< 85.4	-	-	-	-	-	< 33.4	< 766	< 19.5
		2003 01 (Spring)	< 32.2 UJ	85.7	< 0.67	< 2.9	-	-	-	< 1.8	< 243	< 52.0	< 197	< 27.0	< 24.0	< 189	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 10.2	56.8	1.8	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	4.8	158	< 0.74 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.9	127	< 0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M021-E	2007 01 (Spring)	< 3.0	151 J	3.1	< 5.0	3.1	-	-	< 5.0	186	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	146	1.2	4.2 J	5.5	-	-	< 5.0	243	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.31	-	< 0.20	< 0.22	-	-	< 750	-
		2006 01 (Spring)	< 3.0	180	1.1	2.3 J	3.4	-	-	< 5.0	210	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.24	-	< 0.20	0.20 J	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	202 J	1.4	3.5 J	4.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 200	< 332	1.4	< 5.0	1.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 34.0	83.3 J	1.9	3.4 J	5.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 45.0	193	1.3	2.9	4.2	< 9.2	< 10.0	< 0.98	< 172	< 34.0	< 126	< 14.9	< 12.3	< 380	-	< 98.0	< 0.47	< 0.20	-	< 0.25	-	< 20.0 UJ	-	< 19.4 UJ
		2004 01 (Spring)	< 43.0	193	5.2	5.0	10.2	-	-	< 2.3	< 107	< 31.6	< 77.6	< 10.6	< 13.1	< 185	< 627	< 69.2	-	-	-	-	-	21.7	< 232	20.6
		2003 04 (Winter)	< 36.9	180 J	2.1	3.7	5.8	< 2.3	-	< 0.66	209	< 10.3	< 17.4	< 3.7	< 3.8	< 193	< 284	< 59.7	0.34	< 0.028	-	0.27	-	< 4.8	< 206	< 4.3
		2003 03 (Fall)	< 44.8	187 J	< 2.6	5.0	5.0	-	-	< 2.3	523	< 35.6	< 109	< 22.2	< 56.3	< 183	< 1420	< 195	-	-	-	-	-	< 53.3	< 682	< 54.6
		2003 02 (Summer)	< 56.6 UJ	159	3.4	< 5.6	3.4	-	-	< 1.8	< 180	< 55.1	< 197	< 18.1	< 32.6	< 175	< 1250	< 235	-	-	-	-	-	< 25.4	< 641	< 26.9
		2003 01 (Spring)	< 71.5 UJ	193	1.9	5.2	7.1	-	-	< 2.6	488	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 52.1 UJ	184	4.1	-	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 3.4	211	< 0.59 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.4	182	< 0.62	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M022-A	2005 02 (Summer)	< 3.0	158	0.66 J	< 5.0	0.66	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-A	2005 01 (Spring)	< 125	< 149	0.67	< 5.0	0.67	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 33.6 UJ	154 J	0.81	< 5.0	0.81	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 25.0	138	0.49	1.6	2.1	< 7.1	< 9.0	< 0.50	< 181	< 29.0	< 107	< 14.6	< 10.0	< 380	-	< 87.0	< 0.20	< 0.20	-	< 0.20	-	< 16.9 UJ	-	< 18.0 UJ
		2004 01 (Spring)	< 14.8	111	0.36	1.8	2.1	< 6.0	-	0.73	243	< 21.8	< 39.9	< 7.6	< 9.8	< 196	< 601	< 113	< 0.12	< 0.15	-	< 0.12	-	< 10.0	< 350	< 8.9
		2003 04 (Winter)	< 20.4	111 J	1.4	2.4	3.8	< 4.1	-	< 0.56	229	< 18.1	< 32.1	< 5.8	< 4.0	< 201	< 441	< 120	0.36	< 0.030	-	0.33	-	< 7.0	< 876	< 6.7
		2003 03 (Fall)	< 26.0	255 J	< 2.3	< 3.8	-	-	-	< 2.3	522	< 33.2	< 127	< 28.0	< 45.9	< 182	< 1460	< 377	-	-	-	-	-	< 66.0	< 873	< 31.2
		2003 02 (Summer)	< 29.0	176	< 2.0	< 3.6	-	-	-	< 2.0	< 315	< 72.4	< 160	< 27.7	< 45.8	< 319	< 1200	< 61.3	-	-	-	-	-	< 27.3	< 539	< 31.3
		2003 01 (Spring)	< 41.4 UJ	143	< 1.1	< 2.6	-	-	-	< 2.1	452	< 52.0	< 197	< 27.0	< 24.0	< 188	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 49.5 UJ	166	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.9	220	< 0.72 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 5.7	205	0.49	-	0.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M022-E	2007 01 (Spring)	< 3.0	240 J	6.8	8.3	15.1	-	-	< 5.0	222	-	< 50.0	< 15.0	< 10.0	< 500	-	< 250	2.7	-	0.25	2.1	-	< 10.0	< 750	-
		2006 03 (Fall)	< 3.0	74.0	1.8	9.8	11.6	-	-	< 5.0	174	-	< 50.0	< 15.0	< 10.0	< 500	-	-	1.5	-	< 0.20	1.6	-	< 10.0	-	< 10.0
		2006 01 (Spring)	< 3.0 UJ	193 J	2.1 J	27.8	29.9	-	-	< 5.0	220	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	2.1	-	0.19 J	2.0	1.5	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	178 J	2.1	9.5	11.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 208	< 356	1.5	4.8	6.3	-	-	-	-	-	-	-	-	3190	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 33.1	78.2 J	1.9	7.7	9.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 53.8	56.5	1.8	13.8	15.6	< 5.0	< 5.0	< 5.0	207	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	1.5	-	-	1.6	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 59.4	233	10.3	9.9	20.2	-	-	< 2.8	< 141	< 45.7	< 39.8	< 8.6	< 13.2	< 182	< 502	< 99.4	-	-	-	-	-	23.8	< 258	< 15.8
		2003 04 (Winter)	< 29.7	169 J	3.8	11.0	14.8	< 4.9	-	< 0.59	< 152	< 24.0	< 39.2	< 7.6	< 5.4	< 192	< 591	< 86.4	2.2	0.11	-	2.4	-	< 11.3	< 104	< 10.5
		2003 03 (Fall)	< 0.31	2.6 J	3.4	10.5	13.9	-	-	< 2.1	< 370 UJ	< 52.4	< 204	< 16.6	< 31.5	< 184	< 1250	< 194	-	-	-	-	-	< 47.6	< 627	< 23.8
		2003 02 (Summer)	< 33.7	182	3.7	14.8	18.5	-	-	< 2.3	723	< 62.4	< 197	< 26.2	< 31.3	< 175	< 2120	< 67.3	-	-	-	-	-	< 54.1	< 748	< 37.0
		2003 01 (Spring)	< 34.2 UJ	181	2.3	10.5	12.8	-	-	< 2.2	434	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 50.6 UJ	197	2.3	-	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 5.3	141	0.61 J	-	0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	3.8	190	2.9	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-A	2005 02 (Summer)	< 3.0	179 J	0.59 J	2.0 J	2.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2005 01 (Spring)	< 41.4	< 68.7	0.23	< 5.0	0.23	-	-	-	-	-	-	-	-	3250	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 34.7	174 J	0.66	< 5.0	0.66	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 33.0	168	< 0.20	< 1.1	-	< 9.7	< 10.6	< 0.83	< 180	< 44.0	< 130	< 16.1	< 12.4	< 380	-	< 142	0.39	< 0.20	-	0.38	-	< 26.0 UJ	-	< 22.0 UJ
		2004 01 (Spring)	< 12.3	120	< 0.18	< 1.1	-	< 3.7	-	< 0.75	193	< 17.5	< 30.4	< 5.8	< 4.1	< 187	< 486	< 120	< 0.038	< 0.044	-	0.068	-	< 7.2	< 755	< 6.9
		2003 04 (Winter)	< 39.6	152 J	0.80	< 1.4	0.80	< 8.1	-	< 0.55	< 191	< 32.9	< 53.3	< 20.0	< 7.0	< 194	< 869	< 162	0.63	< 0.031	-	0.56	-	< 15.1	< 486	< 13.9
		2003 03 (Fall)	< 73.5	244 J	< 0.76	< 3.7	-	-	-	< 2.0	767	< 58.4	< 167	< 24.7	< 43.9	< 182	< 1950	< 177	-	-	-	-	-	< 58.5	< 798	< 36.0
		2003 02 (Summer)	< 33.7	247	< 1.5	< 3.2	-	-	-	< 1.6	1220	< 54.5	< 232	< 20.4	< 51.2	< 172	< 804	< 95.6	-	-	-	-	-	64.8	< 649	< 27.8
		2003 01 (Spring)	< 16.3 UJ	187	2.0	< 4.9	2.0	-	-	< 1.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 172	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 65.6 UJ	256	1.9	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.7	604	< 0.71 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.4	237	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-E	2007 01 (Spring)	< 3.0	128 J	2.2	2.2 J	4.4	-	-	< 5.0	166	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	121	0.84	1.9 J	2.7	-	-	< 5.0	155	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	110 J	0.66 J	< 5.0	0.66	-	-	< 5.0	93.8 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.42	-	< 0.20	0.40	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	144	1.4 J	4.7 J	6.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 96.4	< 158	0.73	< 5.0	0.73	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 31.1	85.9 J	2.2	4.9 J	7.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 34.0	219	1.3	4.1	5.4	< 8.3	< 11.1	< 0.81	< 157	< 47.0	< 141	< 19.0	< 13.5	< 380	-	< 220	< 0.20	< 0.20	-	< 0.20	-	< 18.0 UJ	-	< 25.0 UJ
		2004 01 (Spring)	< 37.7	264 J	5.5	3.7	9.1	-	-	< 1.8	< 121	< 34.6	< 70.7	< 9.7	< 25.4	< 184	< 811	< 128	-	-	-	-	-	< 27.9	< 259	< 16.8
		2003 04 (Winter)	< 47.4	207 J	< 2.4	< 5.2	-	-	-	< 2.0	< 321	< 38.7	< 146	< 18.0	< 37.9	< 182	< 1450	< 125	-	-	-	-	-	< 38.0	< 189	39.4
		2003 03 (Fall)	< 56.5	309 J	2.5	7.7	10.2	-	-	< 2.5	403	< 72.8	< 164	< 22.6	< 40.8	< 181	< 1300	< 158	-	-	-	-	-	< 59.9	< 733	< 38.9
		2003 02 (Summer)	< 35.8	237	2.9	10.4	13.3	-	-	< 1.9	549	< 41.7	< 184	< 19.3	< 38.0	< 174	< 313	< 74.9	-	-	-	-	-	< 27.3	< 673	< 44.3
		2003 01 (Spring)	< 80.1 UJ	170	< 1.7	< 6.0	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 64.4 UJ	206	4.5	-	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.1	185	< 0.71 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 6.3	< 220	2.0	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M024-A	2005 02 (Summer)	< 3.0	30.1 J	< 0.31 J	2.6 J	2.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-A	2005 01 (Spring)	< 3.0	35.2 J	0.40	< 5.0	0.40	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 10.3 UJ	45.2 J	0.25 J	< 5.0	0.25	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.5	56.0	< 0.34	< 1.1	-	< 9.0	< 10.7	< 0.63	< 130	< 31.0	< 125	< 14.4	< 10.5	< 380	-	< 132	< 0.20	< 0.20	-	< 0.20	-	< 26.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 2.7	48.4	< 0.22	< 1.4	-	< 7.9	-	< 0.35	< 151	< 32.5	< 56.9	< 11.0	< 8.7	< 187	< 935	< 159	< 0.14	< 0.17	-	< 0.14	-	< 13.6	< 494	< 12.6
		2003 04 (Winter)	< 5.5	43.7 J	< 0.61	< 3.9	-	-	-	< 1.9	< 280	< 60.5	< 189	< 16.0	< 25.3	< 180	< 2210	< 272	-	-	-	-	-	< 45.0	< 257	< 21.2
		2003 03 (Fall)	< 6.6	48.2 J	< 0.66	< 4.6	-	-	-	< 2.4	< 105 UJ	< 49.6	< 160	< 25.1	< 45.5	< 182	< 1250	< 209	-	-	-	-	-	< 56.5	< 797	< 44.8
		2003 02 (Summer)	< 7.2	59.2	< 1.6	< 4.1	-	-	-	< 2.3	< 40.0	< 55.0	< 140	< 38.1	< 281	< 179	< 851	< 173	-	-	-	-	-	< 101	< 124	< 21.0
		2003 01 (Spring)	< 3.9 UJ	48.3	< 0.80	< 3.4	-	-	-	< 2.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 2.9 UJ	36.0	< 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	0.99	49.8	< 0.75 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.6	< 130	< 0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M024-E	2007 01 (Spring)	< 3.0	23.0	< 0.50	< 5.0	-	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.096 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	14.6	0.28 J	< 5.0	0.28	-	-	< 5.0	75.3 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.33	-	< 0.20	0.26	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	12.6 J	< 0.50 UJ	2.3 J	2.3	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	21.9 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.6	12.3 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 5.1	28.7 J	0.24 J	< 5.0	0.24	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 6.0	28.3	< 0.27	< 1.2	-	< 8.9	< 11.2	< 0.62	< 160	< 51.0	< 118	< 16.5	< 11.2	< 380	-	< 89.0	< 0.39	< 0.20	-	< 0.24	-	< 25.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 3.0	25.3	2.5	< 1.1	2.5	-	-	< 2.6	< 136	< 34.5	< 79.7	< 12.8	< 17.0	< 178	< 935	< 98.0	-	-	-	-	-	30.6	< 217	< 17.1
		2003 04 (Winter)	< 4.7	18.5 J	< 0.53	< 4.1	-	-	-	< 1.7	< 130	< 50.0	< 223	< 21.0	< 27.0	< 184	< 1250	< 46.0	-	-	-	-	-	< 19.0	< 183	44.8
		2003 03 (Fall)	< 9.1	23.7 J	1.4	6.0	7.4	-	-	< 1.9	< 288	< 69.3	< 60.2	< 28.6	< 73.7	< 182	< 964	< 142	-	-	-	-	-	< 60.2	< 764	< 26.7
		2003 02 (Summer)	< 4.2	28.3	< 2.0	< 3.6	-	-	-	< 2.7	< 110	< 66.0	< 38.4	< 18.1	< 169	< 179	< 1530	< 220	-	-	-	-	-	< 48.0	< 114	< 78.0
		2003 01 (Spring)	< 6.5 UJ	38.3	< 0.89	< 4.1	-	-	-	< 1.9	< 201	< 52.0	< 197	< 15.8	< 24.0	< 172	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 2.4 UJ	24.1	< 0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	0.98	178	< 0.75 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.1	57.8	< 0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M036-A	2005 02 (Summer)	< 3.0	55.4 J	7.1 J	2.1 J	9.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-A	2005 01 (Spring)	< 20.3	39.8 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 13.5	32.8 J	0.54	< 5.0	0.54	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 24.6	30.4	< 0.64	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 6.2	33.5	< 0.18	2.0	2.0	< 3.0	-	< 0.72	87.0	< 11.7	< 22.7	< 4.4	< 3.1	< 206	< 351	< 58.0	< 0.028	< 0.034	-	< 0.028	-	< 6.0	< 57.2	< 5.8
		2003 04 (Winter)	< 19.0	115 J	< 0.95	< 5.1	-	-	-	< 1.8	< 239	< 44.4	< 189	< 15.4	48.0	< 187	< 2100	< 221	-	-	-	-	-	< 15.0	< 302	23.8
		2003 03 (Fall)	< 12.9	90.1	< 1.1	< 2.5	-	-	-	< 2.2	< 309	< 35.4	< 118	< 18.8	< 60.4	< 171	< 1390	< 427	-	-	-	-	-	< 46.4	< 620	< 36.9
		2003 02 (Summer)	< 13.1	64.3	1.0	< 4.1	1.0	-	-	< 1.8	< 102	< 24.0	< 135	< 14.0	< 227	< 283	< 1370	< 126	-	-	-	-	-	< 21.0	< 103	< 58.0
		2003 01 (Spring)	< 7.9 UJ	46.3	< 0.56	< 4.6	-	-	-	< 2.0	< 201	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 16.3	84.0	1.2	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	4.6	78.0	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.1	132	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M036-E	2007 01 (Spring)	< 3.0	209	2.3	4.4 J	6.7	-	-	< 5.0	132	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.11 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	1.2	2.4 J	3.6	-	-	< 5.0	238	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	-
		2006 01 (Spring)	< 3.0	113	0.96	< 5.0	0.96	-	-	< 5.0	113	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	171	1.2 J	< 5.0	1.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 137	< 225	1.3	2.7	4.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 51.6 UJ	103 J	1.3	4.0 J	5.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 34.7	32.1	1.3	< 5.0	1.3	< 5.0	< 5.0	< 5.0	< 132	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 803	< 10.0
		2004 01 (Spring)	< 35.9	262	3.3	4.7	8.0	-	-	< 2.6	< 175	< 33.1	< 52.1	< 7.5	< 28.4	< 179	< 694	< 77.3	-	-	-	-	-	< 18.4	< 170	< 19.8
		2003 04 (Winter)	< 39.1	185 J	< 2.0	< 6.4	-	-	-	< 2.0	< 223	< 66.6	< 128	< 3.3	< 24.8	< 179	< 1210	< 107	-	-	-	-	-	< 14.0	< 349	36.8
		2003 03 (Fall)	< 43.5	160 J	< 2.4	< 4.6	-	-	-	< 1.8	< 228	< 53.3	< 143	< 18.2	< 27.4	< 185	< 1030	< 294	-	-	-	-	-	< 37.2	< 702	37.4
		2003 02 (Summer)	< 45.0	425	< 2.4	< 5.8	-	-	-	< 2.8	< 84.0	< 76.0	< 32.0	< 20.0	< 237	< 180	< 1840	< 177	-	-	-	-	-	< 41.0	< 134	< 45.0
		2003 01 (Spring)	< 59.3 UJ	158	1.9	< 4.5	1.9	-	-	< 1.7	< 201	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 44.1	165	1.3	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	8.3	129	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	5.8	235	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M037-A	2005 02 (Summer)	< 3.0 UJ	127 J	2.4 J	1.3 J	3.7	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-A	2005 01 (Spring)	< 17.1	110	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 16.8	20.6 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 13.0	117	< 0.35	< 1.5	-	< 7.9	< 9.4	< 0.60	< 146	< 49.0	< 100	< 14.5	< 12.5	< 380	-	< 135	< 0.20	< 0.20	-	< 0.20	-	< 22.0 UJ	-	< 19.0 UJ
		2004 01 (Spring)	< 5.0	63.8	< 0.19	< 1.3	-	< 8.5	-	< 0.91	< 215	< 32.0	< 46.5	< 10.0	< 8.0	< 259	< 881	< 159	< 0.028	< 0.034	-	< 0.028	-	< 14.7	< 503	< 13.2
		2003 04 (Winter)	< 20.0	123 J	< 1.1	< 5.1	-	-	-	< 2.1	< 337	< 40.6	< 164	< 4.3	48.4	< 235	< 1340	< 73.0	-	-	-	-	-	< 31.0	< 121	< 37.3
		2003 03 (Fall)	< 19.5	171	< 1.9	5.9	5.9	-	-	< 2.5	< 351	< 41.7	< 30.7	< 27.6	< 37.3	< 311	< 2010	< 118	-	-	-	-	-	< 60.9	< 470	< 41.3
		2003 02 (Summer)	< 14.3	128	< 0.92	< 3.0	-	-	-	< 1.9	< 58.5	< 6.4	< 55.8	< 24.2	< 7.4	< 315	< 1490	< 239	-	-	-	-	-	< 30.2	< 131	< 48.2
		2003 01 (Spring)	< 14.5 UJ	93.6	< 0.73	< 4.2	-	-	-	< 2.1	< 201	< 52.0	< 197	< 27.0	< 24.0	< 301	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 17.3	124	0.79	-	0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	4.1	124	0.71 J	-	0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.9	405	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M037-E	2007 01 (Spring)	< 3.0	243	3.9	5.5	9.4	-	-	< 5.0	219	-	< 50.0	-	< 10.0	< 500	-	< 250	0.71	-	< 0.20	0.53	-	-	< 750	-
		2006 03 (Fall)	< 3.0	< 3.0	1.9	3.9 J	5.7	-	-	< 5.0	222	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	-
		2006 01 (Spring)	< 3.0	198	1.5	4.6 J	6.0	-	-	< 5.0	229	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	185 J	1.2 J	4.0 J	5.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 134	< 215	1.9	5.6	7.5	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 53.5	45.5 J	1.6	< 5.0	1.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 56.0	174	1.5	4.0	5.5	< 8.4	< 9.6	< 0.36	< 174	< 39.0	< 127	< 11.0	< 9.9	< 380	-	< 135	< 0.32	< 0.20	-	< 0.20	-	< 23.0 UJ	-	< 22.0 UJ
		2004 01 (Spring)	< 29.3	133	1.0	5.2	6.3	< 3.8	-	< 1.2	213	< 17.4	< 28.0	< 5.7	< 4.1	< 198	< 491	< 91.7	< 0.027	< 0.033	-	< 0.027	-	< 8.1	< 247	< 7.0
		2003 04 (Winter)	< 70.9	200 J	3.1	7.9	11.0	-	-	< 1.7	< 198	< 74.1	< 135	< 27.3	< 54.5	< 178	< 1510	< 244	-	-	-	-	-	< 36.0	< 209	28.7
		2003 03 (Fall)	< 77.3	201	< 3.2	9.1	9.1	-	-	< 2.3	420	< 32.6	< 155	< 30.5	< 34.2	< 169	< 2060	< 244	-	-	-	-	-	< 61.2	< 713	< 28.7
		2003 02 (Summer)	< 60.8	199	2.2	7.8	10.0	-	-	< 2.2	< 60.9	< 15.6	< 61.7	< 12.9	< 29.9	< 169	< 1760	< 211	-	-	-	-	-	< 3.5	< 105	< 31.9
		2003 01 (Spring)	< 55.8 UJ	196	< 1.0	< 4.5	-	-	-	< 1.8	< 284	< 52.0	< 197	< 27.0	< 24.0	< 191	< 1190	< 184	-	-	-	-	-	< 70.4	< 602	< 34.0
		2002 04 (Winter)	< 56.8	206	2.1	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	18.6	230	3.1 J	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	11.0	170	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M038-A	2005 02 (Summer)	< 3.0	118	1.4	2.9 J	4.3	-	-	-	-	-	-	-	-	482 J	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-A	2005 01 (Spring)	< 51.1	492	0.58	< 5.0	0.58	-	-	-	-	-	-	-	-	750	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 23.8	< 15.0	0.37 J	< 5.0	0.37	-	-	-	-	-	-	-	-	922	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 23.0	75.9	-	-	-	-	-	< 5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 01 (Spring)	< 23.2	151	< 0.18	2.0	2.0	-	-	-	-	-	-	-	-	844	-	-	0.12	< 0.031	-	0.11	-	-	-	-
		2003 01 (Spring)	< 11.1 UJ	91.8	< 0.59	< 2.7	-	-	-	< 1.8	< 370	< 52.0	< 197	< 27.0	< 24.0	846	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 12.3	146	< 0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.7	354	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M038-E	2007 01 (Spring)	< 3.0	278	3.8	4.1 J	7.9	-	-	< 5.0	240	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.13 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	2.3	4.0 J	6.3	-	-	< 5.0	245	-	< 50.0	-	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	136	2.0	6.3	8.2	-	-	< 5.0	187	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	143 J	2.6 J	6.1	8.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 119	265	2.3	3.7 J	6.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 26.6	110	2.5	4.9 J	7.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 45.0	233	1.9	3.7	5.6	< 7.8	< 10.5	< 0.54	< 160	< 43.0	< 107	< 14.5	< 11.7	< 380	-	< 160	< 0.20	< 0.20	-	< 0.20	-	< 24.0 UJ	-	< 20.0 UJ
		2004 01 (Spring)	< 50.6	335 J	5.5	6.3	11.8	-	-	< 2.1	< 163	< 18.9	< 93.4	< 8.0	< 25.5	< 248	< 610	< 89.0	-	-	-	-	-	< 10.7	< 236	< 20.2
		2003 04 (Winter)	< 59.6	190 J	3.4	7.4	10.8	-	-	< 1.6	< 190	< 46.6	< 129	< 6.9	44.0	< 186	< 1990	< 109	-	-	-	-	-	< 35.5	< 131	< 52.0
		2003 03 (Fall)	< 103	372 J	5.8	8.1	14.0	-	-	< 2.2	472	< 47.9	< 77.1	< 21.3	< 34.4	< 184	< 826	< 290	-	-	-	-	-	< 51.5	< 738	< 30.3
		2003 02 (Summer)	< 46.9	251	3.4	6.5	9.9	-	-	< 3.9	< 47.0	< 90.0	< 80.0	< 21.0	< 274	< 177	< 1650	< 195	-	-	-	-	-	< 49.0	< 89.5	< 87.0
		2003 01 (Spring)	< 86.1 UJ	234	< 1.3	6.4	6.4	-	-	< 1.8	< 234	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 54.4	236	2.6	-	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 2.6	312	0.85	-	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 6.3	162	0.73	-	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M039-A	2007 01 (Spring)	< 3.0	50.2 J	0.23 J	1.9 J	2.1	-	-	< 5.0	76.5 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	14.2	< 0.50	2.5 J	2.5	-	-	< 5.0	54.4 J	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	0.083 J	-	-	< 750	-
		2006 01 (Spring)	< 3.0	51.8	0.19 J	< 5.0	0.19	-	-	< 5.0	57.1 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	61.2 J	20.9 J	< 5.0	20.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 4.5	55.4 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M039-A	2004 04 (Winter)	< 4.8 UJ	56.7 J	0.25 J	< 5.0	0.25	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 5.6	51.0	< 0.23	< 0.70	-	< 7.8	< 9.7	< 0.56	< 122	< 32.0	< 110	< 10.8	< 7.8	< 380	-	< 135	< 0.20	< 0.20	-	< 0.20	-	< 23.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 3.5	65.7	< 0.18	1.9	1.9	< 4.6	-	< 0.77	< 100	< 17.7	< 35.6	< 6.9	< 5.1	< 190	< 576	< 91.3	< 0.033	< 0.040	-	< 0.033	-	< 9.3	< 205	< 9.1
		2003 04 (Winter)	< 7.6	68.5 J	< 0.92	< 4.7	-	-	-	3.4	< 176	< 71.5	< 161	< 21.0	< 42.0	< 256	< 1320	< 270	-	-	-	-	-	< 24.0	< 109	35.4
		2003 03 (Fall)	< 7.3	70.3	< 1.4	< 4.0	-	-	-	< 2.5	427	< 69.7	< 192	< 40.4	< 41.5	< 351	< 1560	< 216	-	-	-	-	-	< 49.2	< 784	< 35.7
		2003 02 (Summer)	< 5.8	70.1	< 0.59	< 5.2	-	-	-	< 1.7	< 73.5	< 4.9	< 23.0	< 8.8	< 8.4	< 512	< 1580	< 32.0	-	-	-	-	-	< 14.3	< 134	< 33.9
		2003 01 (Spring)	< 6.3 UJ	57.7	< 0.55	< 3.0	-	-	-	< 2.3	< 278	< 52.0	< 197	< 27.0	< 24.0	< 198	< 1190	< 184	-	-	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 3.9 UJ	74.5	0.94	-	0.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	1.3	65.0	< 0.39 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.1	78.2	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWBZ	M010-B	2007 01 (Spring)	< 3.0	122	< 0.50	< 5.0	-	-	-	< 5.0	146	-	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	-	< 750	-
		2006 03 (Fall)	< 3.0	2.6 J	0.35 J	< 5.0	0.35	-	-	< 5.0	163	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	146	0.26 J	< 5.0	0.26	-	-	5.3	173	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	50.1 J	0.55	1.7 J	2.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 25.8	21.6 J	0.48 J	< 5.0	0.48	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 38.9	125	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 920	< 10.0
		2003 04 (Winter)	< 15.0	161	< 1.5	< 2.9	-	-	-	< 2.7	< 217	< 82.7	< 209	< 29.0	< 38.7	< 186	< 1400	< 131	-	-	-	-	-	< 135	< 111	< 29.6
		2003 02 (Summer)	< 36.1	152	< 0.82	< 4.4	-	-	-	< 1.8	< 93.9	< 23.1	< 148	< 17.2	< 27.9	< 170	< 109	< 188	-	-	-	-	-	< 23.6	< 152	< 32.6
		2002 04 (Winter)	< 28.9 UJ	105	1.4	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 3.8	138	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M012-B	2007 01 (Spring)	< 3.0	160	3.2	< 5.0	3.2	-	-	< 5.0	140	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.4	-	< 0.20	2.2	-	-	-	-
		2006 03 (Fall)	< 3.0	129	1.0	< 5.0	1.0	-	-	< 5.0	112	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.6	-	0.12 J	3.0	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	32.7	0.76	2.7 J	3.4	-	-	< 5.0	173	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.6	-	0.20	2.8	1.1	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	0.80	3.5 J	4.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 54.2	63.5 J	1.2	3.7 J	4.9	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 79.4	< 73.4	1.9	< 5.0	1.9	< 5.0	< 5.0	< 5.0	< 140	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.7	-	-	2.0	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 69.3	< 101 UJ	< 0.94	< 4.9	-	-	-	< 1.6	< 227	< 43.2	< 170	< 9.3	< 35.4	< 181	< 1820	< 184	-	-	-	-	-	< 31.0	< 128	< 36.2

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
	MCL:		15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M012-B	2003 02 (Summer)	< 46.0	161	1.8	< 4.7	1.8	-	-	< 1.8	< 81.5	< 14.7	< 62.7	< 16.8	< 15.8	< 169	< 934	< 231	-	-	-	-	-	< 2.3	< 88.0	< 28.0
		2002 04 (Winter)	< 58.9 UJ	142	2.1	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	8.1	106	0.80	-	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M013-C	2007 01 (Spring)	< 3.0	130	1.8	2.6 J	4.4	-	-	< 5.0	96.8 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	7.1	-	0.23	5.5	-	5.8 J	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	0.45 J	< 5.0	0.45	-	-	< 5.0	91.4 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	6.9	-	0.37	5.6	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	196	0.55	< 5.0	0.55	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	7.1	-	0.46	5.8	1.2	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	0.88	1.9 J	2.8	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 57.8	< 30.0	1.2	< 5.0	1.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 67.2	< 50.4	< 0.60	< 5.0	-	< 5.0	< 5.0	< 5.0	< 115	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	5.5	-	-	4.3	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 38.6	170	1.6	4.0	5.6	-	-	< 1.9	< 247	< 67.6	< 134	< 27.0	< 34.5	< 187	< 2140	< 218	-	-	-	-	-	< 207	< 184	< 35.0
		2003 02 (Summer)	< 48.1	527 J	2.7	< 4.8	2.7	-	-	< 2.5	< 351	< 58.1	< 68.4	< 32.0	< 55.4	< 174	< 1010	< 210	-	-	-	-	-	< 24.1	< 740	< 20.1
		2002 04 (Winter)	< 62.9 UJ	< 78.2	2.0	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	11.4	193	< 0.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M014-B	2007 01 (Spring)	< 3.0	128	1.3	< 5.0	1.3	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	6.6	-	0.19 J	5.0	-	-	-	< 10.0
		2006 03 (Fall)	< 3.0	47.2	0.70	1.6 J	2.3	-	-	< 5.0	82.6 J	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	5.9	-	0.33	4.8	-	< 10.0	< 750	-
		2006 01 (Spring)	< 3.0	< 3.0	0.43 J	< 5.0	0.43	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	5.3	-	0.34	4.1	1.3	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	0.63	< 5.0	0.63	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 50.6	< 27.2	0.69	< 5.0	0.69	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 51.9	238	< 0.56	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	4.8	-	-	3.9	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 40.8	111	< 1.9	< 3.2	-	-	-	< 2.2	< 186	< 39.4	< 220	< 30.0	< 38.0	< 186	< 2120	< 114	-	-	-	-	-	200	< 223	< 20.2
		2003 02 (Summer)	< 49.7	236 J	1.5	< 5.6	1.5	-	-	< 2.5	< 336	< 69.7	< 123	< 15.1	< 50.1	< 172	< 1210	< 153	-	-	-	-	-	< 11.0	< 768	< 37.2
		2002 04 (Winter)	< 49.6 UJ	< 61.9	2.4	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	11.2	9.4	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M016-B	2007 01 (Spring)	< 3.0	120	1.7	2.9 J	4.5	-	-	< 5.0	157	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	12.1	-	0.65	9.1	-	24.0	< 750	28.9
		2006 03 (Fall)	< 3.0	142	0.93	3.7 J	4.7	-	-	< 5.0	142	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	11.5	-	0.40	8.9	-	-	< 750	< 10.0
		2006 01 (Spring)	< 3.0 UJ	194	0.47 J	< 5.0	0.47	-	-	< 5.0	144	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	11.5	-	0.51	9.3	0.85	< 10.0	< 750	< 10.0
		2005 02 (Summer)	55.2 J	145 J	0.46 J	< 5.0	0.46	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMZ	M016-B	2004 04 (Winter)	< 55.9	32.5 J	0.40 J	< 5.0	0.40	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 45.0	154	0.42	1.8	2.2	< 7.4	< 10.1	< 0.61 UJ	< 145	< 31.0	< 112	< 15.8	< 9.2	< 380	-	< 137	11.1	0.36	-	8.2	-	< 21.0 UJ	-	< 21.0 UJ
		2003 04 (Winter)	< 36.4	123	1.9	< 4.2	1.9	-	-	< 2.2	548	< 71.6	< 174	< 24.0	< 30.0	< 188	< 2080	< 200	-	-	-	-	-	< 16.0	< 189	< 36.6
		2003 02 (Summer)	< 66.9	311 J	1.2	< 5.8	1.2	-	-	< 2.3	< 19.4	< 56.0	< 223	< 27.1	< 68.0	< 174	< 1230	< 163	-	-	-	-	-	< 55.5	< 613	< 25.0
		2002 04 (Winter)	< 62.6 UJ	131	< 1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	21.0	203	0.84	-	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M020-B	2007 01 (Spring)	< 3.0	51.8 J	0.34 J	< 5.0	0.34	-	-	< 5.0	76.0 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	64.2	0.53	2.7 J	3.2	-	-	< 5.0	83.8 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	0.11 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	70.4	0.46 J	< 5.0	0.46	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	66.8	0.60 J	< 5.0	0.60	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 19.8 UJ	52.1 J	0.63	< 5.0	0.63	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 12.4	63.0	< 0.38	< 1.1	-	< 7.1	< 8.8	< 0.62	< 146	< 48.0	< 108	< 12.8	< 10.9	< 380	-	< 85.0	< 0.23	< 0.20	-	< 0.20	-	< 23.0 UJ	-	< 12.6 UJ
		2003 04 (Winter)	< 9.8	66.4 J	0.80	1.5	2.3	< 3.7	-	< 0.61	105	< 15.3	< 27.1	< 5.4	< 3.6	< 192	< 420	< 90.6	< 0.047	< 0.029	-	0.069	-	< 9.3	< 229	< 6.3
		2003 02 (Summer)	< 10.1	96.7	< 1.2	< 4.2	-	-	-	< 2.0	623	< 45.7	< 120	< 27.6	< 47.0	< 175	< 1970	< 0.10	-	-	-	-	-	< 64.6	< 580	< 24.3
		2002 04 (Winter)	< 18.8 UJ	71.1	0.95	-	0.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.4	51.7	0.82	-	0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M021-C	2007 01 (Spring)	< 3.0	77.6	0.46 J	2.4 J	2.8	-	-	< 5.0	83.8 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.15	-	< 0.20	< 0.20	-	-	< 750	< 10.0
		2006 03 (Fall)	< 3.0	73.6	0.29 J	1.8 J	2.1	-	-	< 5.0	97.4 J	< 20.0	< 50.0	-	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	25.3	< 750	-
		2006 01 (Spring)	< 3.0	72.8	0.27 J	< 5.0	0.27	-	-	< 5.0	73.4 J	< 20.0	< 50.0	< 15.0	< 10.0	499 J	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	78.2	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 8.7	70.6 J	0.52	< 5.0	0.52	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 14.0	68.0	< 0.41	< 1.8	-	< 9.7	< 10.7	< 0.60	< 152	< 50.0	< 146	< 15.8	< 12.3	< 380	-	< 106	< 0.20	< 0.20	-	< 0.20	-	< 24.0 UJ	-	< 20.0 UJ
		2003 04 (Winter)	< 6.1	71.4 J	0.58	< 1.1	0.58	< 5.1	-	< 0.64	< 114	< 19.9	< 36.2	< 7.3	< 4.8	< 193	< 554	< 104	< 0.025	< 0.031	-	< 0.025	-	< 8.9	< 334	< 9.4
		2003 02 (Summer)	< 15.3	95.4	< 1.3	< 3.5	-	-	-	< 2.3	< 260	< 65.2	< 141	< 22.4	< 28.5	< 210	< 2160	< 250	-	-	-	-	-	114	< 550	< 28.8
		2002 04 (Winter)	< 10.3 UJ	76.6	< 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.0	257	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-B	2007 01 (Spring)	< 3.0	120	1.1	< 5.0	1.1	-	-	< 5.0	98.4 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M023-B	2006 03 (Fall)	< 3.0	99.6	1.3	2.8 J	4.1	-	-	< 5.0	96.3 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	-	< 10.0
		2006 01 (Spring)	< 3.0	82.6	0.70	< 5.0	0.70	-	-	< 5.0	134	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	92.1 J	0.74 J	4.4 J	5.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 12.1	72.2 J	1.1	4.6 J	5.8	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 19.4	49.0	0.88	< 5.0	0.88	< 5.0	< 5.0	< 5.0	< 109	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	-	< 0.50	-	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 16.1	85.8 J	< 1.2	< 3.7	-	-	-	< 1.8	353	< 33.0	< 181	< 18.8	< 42.7	< 178	< 1310	< 164	-	-	-	-	-	< 28.0	< 177	< 43.6
		2003 02 (Summer)	< 13.2	103	< 1.1	< 2.8	-	-	-	< 1.9	533	< 63.4	< 176	< 29.4	< 52.1	< 174	< 1420	< 68.4	-	-	-	-	-	< 27.9	< 785	< 18.8
		2002 04 (Winter)	< 17.6 UJ	113	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.2	144	0.89	-	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-C	2007 01 (Spring)	< 3.0	81.8	0.80	< 5.0	0.80	-	-	< 5.0	92.9 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	92.2	0.53	1.6 J	2.2	-	-	< 5.0	80.3 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	66.6	0.45 J	< 5.0	0.45	-	-	< 5.0	52.0 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	70.2 J	1.0 J	2.0 J	3.0	-	-	-	-	-	-	-	-	360 J	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 14.0	53.4 J	1.3	2.9 J	4.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 23.0	< 63.0	1.1	< 1.0	1.1	< 9.2	< 11.3	< 0.53 UJ	< 170	< 48.0	< 135	< 14.4	< 12.1	< 380	-	< 159	< 0.20	< 0.20	-	< 0.20	-	< 26.0 UJ	-	< 21.0 UJ
		2003 04 (Winter)	< 15.3	84.7 J	< 1.7	< 3.8	-	-	-	< 1.9	< 227	< 34.6	< 219	< 8.6	30.4	< 176	< 1480	< 12.0	-	-	-	-	-	< 29.0	< 276	40.5
		2003 02 (Summer)	< 13.2	101	< 2.0	< 3.7	-	-	-	< 1.6	603	< 54.3	< 198	< 33.1	< 56.8	< 175	< 1100	< 93.6	-	-	-	-	-	< 36.4	< 666	< 19.8
		2002 04 (Winter)	< 15.0 UJ	98.7	2.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	3.1	71.7	0.64	-	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M036-B	2007 01 (Spring)	< 3.0	64.3 J	0.83	< 5.0	0.83	-	-	< 5.0	71.2 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	10.1 J	-	0.37	8.8	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	< 3.0	0.58	< 5.0	0.58	-	-	< 5.0	145	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	131	0.82	< 5.0	0.82	-	-	< 5.0	94.3 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	91.6	0.94 J	< 5.0	0.94	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 16.7 UJ	63.1 J	1.0	< 5.0	1.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 14.4	102	0.71	< 1.5	0.71	< 9.1	< 9.9	< 0.61	< 152	< 49.0	< 128	< 13.4	< 7.6	< 380	-	< 139	< 0.22	< 0.20	-	< 0.20	-	< 25.0 UJ	-	< 15.5 UJ
		2003 04 (Winter)	< 18.0	90.2 J	< 1.1	< 5.1	-	-	-	< 1.6	< 175	< 63.8	< 178	< 16.6	< 38.4	< 182	< 1700	< 283	-	-	-	-	-	< 28.0	< 225	< 15.1
		2003 02 (Summer)	< 20.4	106	1.7	< 3.5	1.7	-	-	< 2.0	< 47.4	< 3.7	< 167	< 18.5	< 4.9	< 164	< 230	< 144	-	-	-	-	-	< 0.52	< 111	< 32.3

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M036-B	2002 04 (Winter)	< 19.3	104	1.3	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.0	65.7	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M037-B	2007 01 (Spring)	< 3.0	57.5	1.1	< 5.0	1.1	-	-	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500 UJ	-	< 250	0.080 J	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	20.5	1.4	2.2 J	3.6	-	-	< 5.0	-	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	58.3	1.5	< 5.0	1.5	-	-	< 5.0	104	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 0.20	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	38.7 J	1.9 J	2.8 J	4.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 11.9	25.0 J	1.3	< 5.0	1.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 8.8	53.0	1.5	1.9	3.4	< 7.8	< 11.6	< 0.66	< 134	< 40.0	< 121	< 13.7	< 8.6	< 380	-	< 129	< 0.20	< 0.20	-	< 0.20	-	< 24.0 UJ	-	< 22.0 UJ
		2003 04 (Winter)	< 12.7	53.7 J	< 2.2	< 5.0	-	-	-	< 1.6	< 37.0	< 55.2	< 123	< 17.0	46.8	< 179	< 2070	< 117	-	-	-	-	-	< 32.0	< 179	< 36.9
		2003 02 (Summer)	< 12.2	47.5	1.9	< 3.4	1.9	-	-	< 1.8	< 61.9	< 26.9	< 149	< 7.0	< 4.5	< 233	< 224	< 258	-	-	-	-	-	< 23.4	< 164	< 22.1
		2002 04 (Winter)	< 10.7	67.1	1.5	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.1	102	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M038-B	2007 01 (Spring)	< 3.0	169	0.90	3.8 J	4.7	-	-	< 5.0	220	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	4.7	-	0.17 J	4.0	-	< 10.0	< 750	< 10.0
		2006 03 (Fall)	< 3.0	95.6	0.73	31.9	32.6	-	-	< 5.0	177	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	4.4	-	0.22	3.3	-	-	< 750	-
		2006 01 (Spring)	< 3.0	263	1.1	< 5.0	1.1	-	-	< 5.0	164	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	4.3	-	< 0.20	4.6	< 0.0000	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	202	1.3 J	5.1	6.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 35.1	96.9	1.3	< 5.0	1.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 43.0	168	0.95	2.8	3.8	< 8.2	< 10.3	< 0.66 UJ	< 210	< 42.0	< 119	< 15.2	< 12.9	< 380	-	< 143	4.3	< 0.20	-	3.2	-	< 23.0 UJ	-	< 14.2 UJ
		2003 04 (Winter)	< 43.2	207	1.7	< 3.6	1.7	-	-	< 2.6	< 339	< 67.9	< 150	< 26.0	< 59.2	< 185	< 1830	< 143	-	-	-	-	-	< 43.3	< 154	< 29.8
		2003 02 (Summer)	< 60.1	169	2.1	< 4.3	2.1	-	-	< 1.7	< 29.9	< 4.4	< 72.6	< 13.0	< 24.6	< 169	< 658	< 255	-	-	-	-	-	< 7.9	< 105	< 48.2
		2002 04 (Winter)	< 58.7 UJ	279	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	11.0	127	< 0.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M039-B	2007 01 (Spring)	< 3.0	263 J	0.51	2.9 J	3.4	-	-	< 5.0	158	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	0.058 J	0.062 J	-	-	< 750	< 10.0
		2006 03 (Fall)	85.2	236	1.1	3.3 J	4.4	-	-	< 5.0	106	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	11.4	-	0.37	8.5	-	< 10.0	< 750	< 10.0
		2006 01 (Spring)	< 3.0	200	1.0	< 5.0	1.0	-	-	< 5.0	93.2 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	9.8	-	0.92	6.5	2.2	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	< 3.0	0.36 J	2.8 J	3.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	52.0 J	127 J	1.1	5.9	7.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-9

Groundwater Sample Analytical Results Radionuclides at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Ra-228 Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes					Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 235/236 (U02RC)	Uranium 238 (908.0)	Uranium Total (U02RC)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PERCEN	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20000	NA	NA	NA	20.0	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M039-B	2004 02 (Summer)	< 43.0	< 109	0.70	2.1	2.8	< 7.8	< 8.1	< 0.53 UJ	< 115	< 37.0	< 116	< 10.6	< 7.0	< 380	-	< 128	9.8	0.40	-	7.1	-	< 23.0 UJ	-	< 20.0 UJ
		2003 04 (Winter)	< 62.4	110 J	< 0.84	< 5.6	-	-	-	< 1.8	< 185	< 54.7	< 123	< 22.4	48.7	< 174	< 2090	< 196	-	-	-	-	-	< 29.0	< 161	35.0
		2003 02 (Summer)	< 56.3	161	1.2	< 4.6	1.2	-	-	< 1.6	< 104	< 1.2	< 11.7	< 19.9	< 32.9	< 168	< 957	< 318	-	-	-	-	-	< 5.0	< 124	< 45.1
		2002 04 (Winter)	< 63.1	160	0.97	-	0.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	18.6	< 220	0.89	-	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	442-MW1	03/15/07	5.89	0.91	386.0
		10/10/06	7.61	0.81	-153.6
		04/20/06	7.19	0.79	-122.0
		08/31/05	8.31	0.82	-234.0
		03/07/05	6.64	0.99	88.0
		11/17/04	7.06	0.32	126.0
		06/18/04	7.11	***15.00***	-110.0
		04/07/04	7.77	0.14	-27.0
		12/17/03	7.04	0.32	227.0
		09/24/03	7.74	3.60	0.1
		07/09/03	7.79	0.14	-262.0
		04/24/03	***8.70***	0.47	174.0
		12/30/02	6.82	1.69	-8.2
		09/20/02	7.49	0.58	-144.0
		07/10/02	7.99	***9.77***	0.0
First	M010-A	03/14/07	6.11	0.52	381.8
		10/10/06	7.13	0.39	-209.4
		04/19/06	7.84	1.80	-252.0
		08/31/05	8.19	1.14	-228.0
		03/07/05	7.51	0.26	-182.0
		11/17/04	7.10	1.06	104.0
		06/18/04	6.97	***9.80***	-47.0
First	M011-A	03/12/07	7.77	0.65	-101.9
		10/10/06	6.87	0.27	-85.5
		04/20/06	7.32	0.03	-73.0
		08/31/05	7.25	0.80	-155.0
		03/07/05	6.99	2.77	-98.0
		11/17/04	6.63	0.32	-20.0
		06/18/04	6.44	1.80	-263.0
		04/06/04	6.85	0.27	-78.0
		12/16/03	6.61	0.26	116.0
		09/25/03	6.57	0.14	-56.0
		07/08/03	6.75	0.11	70.0
		04/17/03	6.80	0.15	-11.0
		12/11/02	6.16	8.54	98.1
		09/19/02	6.68	0.80	-132.1
		07/01/02	7.06	2.00	-110.0
First	M012-A	03/13/07	5.80	0.42	401.5
		10/10/06	7.50	0.26	-390.1
		04/19/06	6.94	0.00	-79.0
		09/01/05	7.81	0.97	-52.0
		03/07/05	6.79	0.72	-99.0
		11/17/04	7.20	1.19	109.0
		06/18/04	6.42	0.17	-204.0
		04/06/04	6.34	0.22	-43.0
		12/16/03	7.05	0.29	50.0
		09/25/03	6.96	0.17	-9.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M012-A	07/09/03	6.72	0.17	-46.0
		04/21/03	6.32	0.21	97.0
		12/12/02	***8.63***	0.00	-57.0
		09/19/02	6.85	1.50	-62.9
		07/01/02	6.51	2.50	0.0
First	M013-A	03/13/07	8.26	1.47	-42.7
		10/10/06	7.54	0.39	-95.3
		04/19/06	7.31	2.05	54.0
		08/31/05	6.91	1.20	81.0
		03/07/05	7.55	0.29	15.0
		11/18/04	6.96	2.22	160.0
		06/18/04	6.94	0.93	-9.0
		04/06/04	7.56	0.35	120.0
		12/17/03	7.04	***10.04***	149.8
		09/25/03	7.19	0.45	85.0
		07/09/03	7.45	1.43	238.0
		04/17/03	7.96	0.28	141.0
		12/11/02	8.32	0.00	3.0
		09/19/02	7.29	1.70	-37.3
		07/02/02	6.61	2.40	172.0
First	M014-A	03/09/07	7.66	4.41	20.9
		10/10/06	7.68	2.31	-13.6
		04/20/06	7.31	5.95	63.0
		08/31/05	6.64	1.66	21.0
		03/07/05	6.14	2.94	-24.0
		11/17/04	6.98	2.50	181.0
		06/18/04	6.98	1.88	-215.0
		04/06/04	6.94	2.26	97.0
		12/17/03	6.76	2.97	256.0
		09/26/03	7.10	1.35	79.0
		07/09/03	7.19	2.97	170.0
		04/17/03	7.41	3.52	192.0
		12/11/02	7.64	0.45	59.0
		09/19/02	6.89	***14.10***	127.5
		07/02/02	6.54	3.50	230.0
First	M016-A	03/14/07	6.85	0.51	-122.5
		10/11/06	6.77	0.17	-128.4
		04/20/06	6.76	0.70	-199.0
		08/31/05	6.05	4.30	-158.0
		03/07/05	6.06	1.69	-178.0
		11/17/04	6.62	0.25	32.0
		06/23/04	7.31	2.50	-93.0
		04/08/04	6.48	0.32	-39.0
		12/18/03	6.56	0.41	111.0
		09/25/03	6.83	0.29	-178.0
		07/09/03	6.97	0.17	76.0
		04/17/03	6.59	0.38	81.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M016-A	12/12/02	***5.98***	3.63	-75.6
		09/23/02	6.90	1.00	-100.8
		07/02/02	7.10	2.40	-89.0
First	M016-E	03/14/07	6.56	0.63	346.3
		10/11/06	7.06	0.14	-172.8
		04/20/06	7.08	5.72	-227.0
		09/01/05	6.33	5.21	-208.0
		03/07/05	7.07	0.00	-223.0
		11/17/04	6.72	0.24	-34.0
		06/23/04	7.52	2.20	-160.0
		03/11/04	7.10	0.22	-129.0
		12/18/03	6.53	0.42	89.0
		09/26/03	6.76	0.51	-89.0
		07/09/03	7.19	0.14	-4.0
		04/17/03	7.03	0.36	-109.0
		12/12/02	6.08	6.64	-126.8
		09/23/02	6.90	0.90	-150.1
		07/02/02	7.34	1.80	-159.0
First	M017-A	03/14/07	5.98	3.15	391.9
		10/10/06	6.94	0.33	-180.1
		04/20/06	7.40	5.47	103.0
		09/01/05	6.52	6.78	80.0
		03/07/05	7.19	2.00	14.0
		11/16/04	6.98	3.00	196.0
		06/23/04	6.78	3.83	-176.0
		04/12/04	7.09	1.89	118.0
		12/17/03	7.01	1.88	157.0
		09/26/03	7.01	3.84	26.0
		07/09/03	7.03	3.23	-203.0
		04/22/03	7.03	3.39	228.0
		12/12/02	6.96	2.28	107.0
		09/24/02	6.65	***38.50***	181.7
		07/08/02	7.08	4.90	-70.0
First	M018-A	03/14/07	7.59	0.37	-48.7
		10/12/06	6.98	0.52	11.9
		04/20/06	6.62	0.19	203.0
		09/02/05	7.28	0.95	64.0
		03/07/05	6.98	0.00	-52.0
		11/16/04	6.80	0.28	173.0
		06/24/04	7.68	4.50	-37.0
		04/08/04	6.77	0.19	-115.0
		12/17/03	6.78	0.37	-22.0
		09/26/03	6.89	0.50	31.0
		07/09/03	6.95	0.30	65.0
		04/22/03	6.09	0.36	291.0
		12/12/02	6.37	4.20	100.1
		09/23/02	6.89	1.27	61.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M018-A	07/08/02	7.13	1.50	-136.0
First	M018-E	03/14/07	7.17	0.39	-116.0
		10/12/06	6.81	0.53	-97.6
		04/20/06	6.91	0.22	-124.0
		09/01/05	6.27	4.03	-139.0
		11/16/04	6.73	0.32	50.0
		06/24/04	7.48	4.70	40.0
		12/17/03	6.79	0.60	-80.4
		07/09/03	6.76	0.20	163.0
		12/12/02	6.14	4.98	-91.7
		07/08/02	6.88	0.80	-226.0
First	M019-A	03/14/07	6.91	4.75	-24.2
		10/11/06	6.91	0.11	-156.8
		04/24/06	7.19	0.61	79.0
		09/01/05	7.53	4.80	55.0
		03/08/05	6.17	1.38	52.0
		11/16/04	6.82	3.57	2.3
		06/22/04	7.00	5.68	-196.0
		04/07/04	6.77	3.48	181.0
		12/18/03	7.19	1.57	83.2
		09/26/03	6.74	4.73	135.0
		07/09/03	6.95	4.63	186.0
		04/21/03	6.85	4.06	250.0
		12/12/02	6.75	2.74	134.0
		09/23/02	6.41	4.52	107.0
		07/08/02	***4.81***	3.10	42.0
First	M019-E	03/14/07	7.04	0.49	-51.8
		10/11/06	6.90	0.01	-267.9
		04/24/06	6.36	0.20	-19.0
		09/01/05	7.51	0.82	-98.0
		11/16/04	6.84	0.27	117.0
		06/22/04	7.09	0.77	-92.0
		12/18/03	7.14	0.73	-94.9
		07/09/03	6.87	0.20	167.0
		12/12/02	***8.51***	0.00	-95.0
		07/09/02	7.00	2.40	-118.0
First	M020-A	03/15/07	7.64	1.01	-90.1
		10/11/06	7.29	0.02	-304.2
		04/20/06	8.45	0.93	-115.0
		09/02/05	6.79	1.13	-90.0
		03/08/05	7.08	0.00	-12.0
		11/16/04	7.06	0.54	148.0
		06/23/04	7.26	0.63	-18.0
		04/07/04	7.73	1.09	4.0
		12/15/03	7.24	0.60	46.0
		09/26/03	7.23	2.38	71.0
		07/10/03	7.22	5.82	197.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M020-A	04/22/03	6.81	0.97	237.0
		12/12/02	6.77	4.51	-65.3
		09/23/02	7.15	1.28	-90.0
		07/08/02	***4.93***	1.90	-43.0
First	M020-E	03/15/07	7.57	0.38	-161.7
		10/11/06	6.65	0.00	-144.7
		04/24/06	6.89	0.62	-210.0
		09/01/05	7.52	0.73	-192.0
		03/08/05	6.09	0.56	-206.0
		11/16/04	6.60	0.41	11.0
		06/22/04	6.64	0.19	-108.0
		03/10/04	6.75	0.18	29.0
		12/15/03	6.81	0.20	-93.0
		09/26/03	6.76	0.20	-71.0
		07/10/03	6.69	0.48	-100.0
		04/02/03	6.34	0.29	-51.0
		01/07/03	7.22	0.02	-182.0
		09/23/02	6.76	0.30	-169.0
		07/10/02	6.73	6.40	-205.0
First	M021-A	03/15/07	8.32	0.20	-239.1
		10/11/06	7.98	0.02	-383.2
		09/01/05	7.92	0.00	-344.0
		03/08/05	7.69	0.00	-220.0
		11/12/04	7.49	0.30	-12.0
		06/22/04	7.56	***9.10***	-214.0
		04/07/04	7.86	0.15	-151.0
		12/15/03	7.58	0.15	-39.0
		09/29/03	7.82	0.11	-308.0
		07/10/03	8.16	0.12	-206.0
		04/22/03	7.89	0.18	-278.0
		12/26/02	8.05	4.49	-32.0
		09/24/02	7.57	0.29	-339.0
		07/08/02	***5.90***	1.50	-259.0
First	M021-E	03/15/07	7.15	1.00	-136.9
		10/11/06	7.14	0.02	-123.4
		04/24/06	7.09	0.73	-190.0
		09/01/05	6.96	0.00	-191.0
		03/08/05	7.03	0.00	-193.0
		11/15/04	6.92	0.37	-24.0
		06/22/04	6.79	***26.40***	-149.0
		03/10/04	6.81	0.18	13.0
		12/15/03	6.96	0.24	-46.0
		09/26/03	6.87	0.24	-121.0
		07/10/03	6.98	0.25	-53.0
		04/22/03	6.92	0.30	-125.0
		12/26/02	7.32	5.21	-170.0
		09/24/02	6.87	0.39	-182.0
		07/10/02	7.27	***10.60***	-326.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M022-A	03/15/07	10.82	0.57	-282.0
		10/12/06	7.08	0.08	-328.9
		09/01/05	6.99	0.00	-350.0
		03/08/05	7.14	0.00	-390.0
		11/16/04	6.87	0.19	-276.0
		06/22/04	6.94	1.90	-264.0
		04/07/04	6.97	0.14	-315.0
		12/15/03	7.13	0.92	-285.9
		09/26/03	7.02	0.23	-323.0
		07/10/03	7.06	0.11	-270.0
		04/22/03	6.54	0.14	-305.0
		01/08/03	7.39	0.00	-292.0
		09/24/02	6.98	0.39	-369.0
		07/08/02	***5.85***	1.60	-340.0
First	M022-E	03/15/07	6.78	0.91	-109.6
		10/12/06	6.95	0.02	-215.6
		04/24/06	6.81	0.58	-181.0
		09/01/05	6.81	0.00	-173.0
		03/08/05	6.89	0.00	-153.0
		11/15/04	6.70	0.43	35.0
		06/21/04	6.63	3.40	-152.0
		03/10/04	6.64	0.24	-70.0
		12/15/03	6.76	1.10	-127.4
		09/29/03	6.67	0.16	-53.0
		07/10/03	6.84	0.12	18.0
		04/22/03	***5.93***	0.32	0.0
		01/07/03	7.12	0.00	-108.0
		09/24/02	6.69	0.34	-124.0
		07/12/02	6.88	***10.05***	0.0
First	M023-A	03/15/07	10.32	1.88	-294.3
		10/11/06	6.94	0.18	-352.4
		04/25/06	7.31	0.38	-383.0
		09/07/05	6.96	7.89	59.0
		03/08/05	7.57	1.33	-337.0
		11/15/04	6.98	0.45	-322.0
		06/24/04	6.84	2.90	-251.0
		04/08/04	6.76	1.11	255.0
		12/15/03	7.13	0.59	-261.0
		09/30/03	7.14	0.44	-330.0
		07/10/03	6.70	0.17	-284.0
		04/21/03	7.38	0.30	-350.0
		12/13/02	***10.29***	0.00	-313.0
		09/25/02	6.76	0.30	-347.0
		07/09/02	7.04	0.00	-368.0
First	M023-E	03/15/07	7.00	0.59	-124.0
		10/12/06	6.98	0.03	-159.6
		04/24/06	6.83	0.00	-115.0
		09/02/05	6.63	0.64	-191.0
		03/08/05	7.25	4.61	-174.0
		11/15/04	6.97	0.17	-177.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M023-E	06/23/04	6.73	0.20	-101.0
		03/10/04	6.87	0.20	56.0
		12/16/03	6.84	0.26	-84.0
		09/30/03	7.23	0.26	-175.0
		07/10/03	6.73	0.17	-132.0
		04/23/03	6.24	0.25	-70.0
		12/26/02	7.28	0.00	-182.0
		09/25/02	6.83	0.27	-181.0
		07/12/02	***4.91***	2.40	75.0
First	M024-A	03/20/07	7.56	1.04	293.9
		10/11/06	6.33	0.12	-154.0
		04/24/06	6.59	0.09	-108.0
		09/06/05	6.11	0.39	-117.0
		03/08/05	6.71	***9.15***	-156.0
		11/16/04	6.45	0.30	-9.0
		06/22/04	6.41	0.19	25.0
		04/07/04	6.29	0.41	-33.0
		12/15/03	6.54	0.31	173.0
		09/29/03	6.66	0.16	-100.0
		07/14/03	6.57	0.22	-68.0
		04/24/03	6.60	0.31	24.0
		12/27/02	6.61	0.12	-132.0
		09/24/02	6.40	0.70	-94.9
		07/08/02	***4.98***	4.60	-118.0
First	M024-E	03/20/07	7.09	0.50	-130.9
		10/13/06	7.14	0.34	-275.0
		04/24/06	7.12	0.18	-151.0
		09/06/05	6.45	0.86	-153.0
		03/08/05	7.29	2.10	-197.0
		11/15/04	7.04	0.27	-14.0
		06/22/04	6.92	0.15	-21.0
		03/11/04	7.05	0.29	20.0
		12/16/03	7.13	0.22	95.0
		09/30/03	7.44	0.26	-111.0
		07/14/03	7.00	0.29	-141.0
		04/24/03	7.06	0.34	-38.0
		12/27/02	7.25	0.00	-184.0
		09/24/02	6.78	1.40	-113.7
		07/08/02	7.20	0.80	-325.0
First	M036-A	03/19/07	6.37	0.57	-122.6
		10/13/06	6.34	0.18	-233.8
		04/24/06	6.58	1.11	-119.0
		09/06/05	6.39	0.00	-114.0
		03/09/05	**5.91**	4.19	-146.0
		11/18/04	***5.90***	0.19	84.0
		06/21/04	6.24	1.80	-69.0
		04/08/04	6.12	0.20	4.0
		12/16/03	6.31	0.30	69.0
		09/25/03	6.82	0.37	37.0
		07/11/03	6.44	0.16	-52.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M036-A	04/23/03	***5.83***	0.34	178.0
		12/30/02	6.92	4.18	-139.0
		09/20/02	6.34	0.34	-157.0
		07/09/02	6.31	-0.50	-76.9
First	M036-E	03/12/07	8.01	0.25	-152.6
		10/13/06	7.06	0.01	-289.0
		04/24/06	7.02	0.29	-178.0
		09/02/05	6.87	0.00	-210.0
		03/09/05	6.35	0.90	-231.0
		11/16/04	6.78	0.11	-18.0
		06/21/04	6.80	4.20	-144.0
		03/11/04	6.90	0.23	-68.0
		12/16/03	6.82	0.39	-38.0
		09/26/03	6.84	0.22	-86.0
		07/14/03	7.05	0.16	31.0
		04/23/03	6.28	0.31	-41.0
		12/30/02	7.48	3.97	-175.0
		09/20/02	6.78	0.25	-186.0
		07/09/02	6.78	-0.86	-173.4
First	M037-A	03/20/07	7.29	0.48	303.6
		10/12/06	7.14	0.25	-152.1
		04/25/06	7.12	0.00	-179.0
		09/06/05	7.15	0.00	-199.0
		03/09/05	7.37	0.00	-213.0
		11/17/04	6.88	0.15	-92.0
		06/22/04	7.43	0.49	-189.0
		04/08/04	6.82	0.10	-88.0
		12/16/03	7.24	0.28	-142.4
		09/25/03	7.38	0.36	-64.0
		07/11/03	6.99	0.19	-209.0
		04/23/03	7.42	0.59	-96.0
		12/30/02	7.33	0.00	-183.0
		09/20/02	7.08	0.60	-177.3
		07/09/02	***4.09***	3.20	-215.0
First	M037-E	03/12/07	***7.10***	0.25	-161.2
		10/12/06	***6.92***	0.36	-151.6
		04/24/06	6.89	0.45	-156.0
		09/06/05	6.85	0.00	-188.0
		03/09/05	7.02	0.00	-204.0
		11/17/04	6.58	0.33	42.0
		06/22/04	6.65	0.27	-76.0
		04/08/04	6.60	0.29	-77.0
		12/16/03	6.85	0.48	-134.4
		09/25/03	7.14	0.25	-72.0
		07/11/03	6.68	0.19	-23.0
		04/23/03	7.16	0.36	-109.0
		12/30/02	7.02	0.09	-179.0
		09/20/02	6.80	1.10	-164.1
		07/09/02	***4.89***	3.40	-186.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M038-A	03/19/07	7.05	0.18	-165.3
		10/12/06	6.76	0.20	-177.8
		04/25/06	6.60	0.93	-184.0
		03/09/05	6.79	6.84	-241.0
		11/15/04	5.58	0.48	63.0
		06/23/04	6.66	0.28	-215.0
		04/07/04	6.66	0.23	-118.0
		12/17/03	6.69	0.12	-137.0
		09/30/03	6.59	0.71	-381.0
		07/11/03	6.80	0.18	45.0
		04/23/03	7.37	0.32	-112.0
		12/30/02	NM	NM	NM
		09/23/02	NM	NM	NM
		07/11/02	6.73	***11.10***	-162.0
First	M038-E	03/12/07	7.06	***0.25***	-156.3
		10/12/06	6.61	***0.01***	-152.0
		04/25/06	6.62	0.83	-202.0
		09/06/05	7.36	0.75	-203.0
		03/09/05	6.90	***11.74***	-222.0
		11/15/04	6.75	0.69	42.0
		06/23/04	6.61	0.32	-149.0
		03/11/04	6.78	0.26	-11.0
		12/16/03	6.61	0.23	27.0
		09/30/03	6.67	0.64	-109.0
		07/14/03	6.87	0.20	72.0
		04/23/03	7.17	0.24	-95.0
		12/30/02	6.91	0.23	-169.0
		09/23/02	6.94	1.80	-175.8
		07/10/02	***4.59***	2.40	-172.0
First	M039-A	03/19/07	7.16	0.22	-125.9
		10/12/06	6.61	0.32	-271.7
		04/26/06	6.04	1.08	-154.0
		09/06/05	7.08	0.88	-156.0
		03/09/05	6.59	***9.24***	-206.0
		11/16/04	6.38	0.17	77.0
		06/23/04	6.48	0.31	-134.0
		04/08/04	6.43	0.31	-47.0
		12/16/03	6.66	0.22	-106.7
		09/25/03	6.52	0.31	-26.0
		07/11/03	6.68	0.45	-31.0
		04/23/03	6.90	0.29	-1.0
		12/31/02	6.52	NM	NM
		09/20/02	6.52	1.00	-76.4
		07/10/02	***4.96***	4.20	-96.0
Second	M010-B	03/13/07	8.12	0.29	-154.7
		10/10/06	7.63	0.18	-154.3
		04/20/06	7.84	0.00	-197.0
		08/31/05	7.60	1.36	-84.0
		11/17/04	7.50	0.30	-68.0
		06/18/04	7.36	1.30	-138.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M010-B	12/17/03	7.46	0.23	51.0
		07/11/03	7.67	0.09	110.0
		12/11/02	7.10	***10.69***	-173.4
		07/11/02	8.12	***9.36***	0.0
Second	M012-B	03/13/07	8.26	0.29	-78.2
		10/10/06	6.68	0.00	-269.0
		04/19/06	7.22	0.57	-76.0
		08/31/05	6.81	0.00	-107.0
		11/18/04	6.87	2.08	169.0
		06/18/04	6.78	4.65	-207.0
		12/16/03	6.71	1.66	109.0
		07/11/03	7.00	0.09	166.0
		12/12/02	7.92	0.00	-7.0
		07/10/02	6.84	0.60	288.4
Second	M013-C	03/09/07	6.98	0.67	-76.0
		10/10/06	7.32	0.02	-113.6
		04/19/06	7.21	0.76	-119.0
		08/31/05	6.78	0.00	-107.0
		11/18/04	6.82	1.20	120.0
		06/18/04	7.08	0.71	-267.0
		12/17/03	7.09	6.15	-58.2
		07/09/03	6.95	0.30	251.0
		12/12/02	7.73	0.00	23.0
		07/10/02	6.85	0.28	343.4
Second	M014-B	03/09/07	7.77	0.61	-126.6
		10/10/06	7.09	0.03	-83.2
		04/24/06	7.07	0.47	-84.0
		08/31/05	6.88	0.00	-121.0
		11/17/04	6.91	0.24	154.0
		06/18/04	7.32	0.68	-291.0
		12/17/03	6.83	0.32	222.0
		07/09/03	7.00	0.18	148.0
		12/11/02	***8.64***	3.96	-63.0
		07/10/02	6.85	0.10	133.9
Second	M016-B	03/14/07	6.92	0.72	-58.0
		10/11/06	6.94	0.45	-28.3
		04/20/06	6.99	0.75	-19.0
		08/31/05	6.12	4.36	-20.0
		11/17/04	6.82	0.31	199.0
		06/23/04	7.44	3.60	80.0
		12/17/03	6.75	0.34	51.0
		07/09/03	7.09	0.26	177.0
		12/12/02	6.35	2.60	36.3
		07/11/02	6.95	***18.50***	-47.0
Second	M020-B	03/14/07	7.58	0.42	-152.0
		10/11/06	7.24	0.20	-169.2
		04/25/06	7.09	0.45	-208.0
		09/01/05	8.11	0.89	-211.0
		11/16/04	7.08	0.16	59.0
		06/22/04	7.04	0.15	-343.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M020-B	12/15/03	7.23	0.16	-89.0
		07/10/03	6.99	0.24	-121.0
		01/08/03	***10.41***	0.00	-179.0
		07/15/02	7.31	0.55	0.0
Second	M021-C	03/15/07	7.54	0.38	-154.6
		10/11/06	7.33	0.44	-142.2
		04/24/06	7.11	0.76	-192.0
		09/01/05	6.91	0.00	-228.0
		11/12/04	6.81	0.30	11.0
		06/22/04	6.72	1.90	-79.0
		12/15/03	7.02	0.18	-28.0
		07/10/03	7.28	0.13	-95.0
		12/26/02	7.11	0.00	-162.0
		07/11/02	6.86	0.14	-154.6
Second	M023-B	03/14/07	6.97	0.68	-126.9
		10/12/06	6.98	0.52	-148.1
		04/24/06	7.02	1.04	-197.0
		09/06/05	6.46	0.00	-171.0
		11/15/04	6.99	0.10	-147.0
		06/21/04	6.77	0.12	-291.0
		12/16/03	6.87	0.21	-61.0
		07/10/03	6.91	0.09	-113.0
		12/13/02	***9.14***	0.00	-174.0
		07/15/02	7.02	2.30	-123.0
Second	M023-C	03/15/07	7.47	0.45	-250.9
		10/12/06	7.00	0.22	-153.4
		04/24/06	7.34	0.50	-180.0
		09/07/05	6.46	0.14	-211.0
		11/15/04	7.08	0.09	-96.0
		06/23/04	6.86	0.20	38.0
		12/16/03	6.96	0.21	-38.0
		07/10/03	7.21	0.12	-10.0
		12/13/02	***9.33***	0.00	-177.0
		07/16/02	7.01	-0.08	-168.9
Second	M036-B	03/19/07	6.84	0.39	-136.5
		10/13/06	7.04	0.21	-276.5
		10/12/06	7.06	0.01	-289.0
		04/25/06	6.99	0.57	-163.0
		09/02/05	6.86	0.00	-207.0
		11/16/04	6.75	0.20	-154.0
		06/22/04	6.80	2.00	-154.0
		12/16/03	6.82	0.51	20.0
		07/11/03	6.99	0.11	-60.0
		12/30/02	7.42	4.66	-169.0
		07/09/02	6.77	-0.01	-173.0

Table 8.1-10
Groundwater Sampling Field Parameters at Operable Unit 4A - IR Site 2
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M037-B	03/20/07	7.45	0.80	295.8
		10/13/06	7.02	0.37	-129.7
		04/24/06	7.16	0.57	-193.0
		09/07/05	6.24	0.35	-143.0
		11/17/04	6.86	0.15	95.0
		06/22/04	6.77	0.23	-56.0
		12/16/03	7.02	0.55	-118.1
		07/11/03	6.92	0.14	-24.0
		12/30/02	8.25	0.00	-165.0
		07/09/02	*4.52*	4.30	-156.0
Second	M038-B	03/20/07	6.88	0.36	-117.1
		10/12/06	7.13	0.05	-122.0
		04/25/06	6.95	0.89	-134.0
		09/02/05	7.52	0.75	-120.0
		11/15/04	7.43	1.06	89.0
		06/24/04	6.80	0.23	-90.0
		12/17/03	6.89	0.14	-68.0
		07/11/03	7.05	0.12	123.0
		12/31/02	6.45	0.97	61.2
		07/15/02	7.02	1.90	-49.0
Second	M039-B	03/19/07	6.96	0.77	-80.1
		10/12/06	7.09	0.01	-306.6
		04/26/06	6.56	0.82	-69.0
		09/06/05	7.50	0.75	-77.0
		11/16/04	6.73	0.13	154.0
		06/23/04	7.42	2.90	-15.0
		12/16/03	6.91	0.45	-79.5
		07/11/03	6.92	0.41	224.0
		12/30/02	7.44	3.52	-45.0
		07/15/02	6.89	0.05	-33.3

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts
NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2007 01 (Spring)	-	-	-	< 0.050	< 0.050	230	33.0	230	230	< 10.0	< 10.0	< 0.040	-	-
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	12.0 J	8.8	120	120	< 1.0	< 1.0	< 0.040	-	-
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	140	25.0	290	290	< 1.0	< 1.0	0.070	-	-
		2004 04 (Winter)	-	-	-	0.21	< 0.050	90.0	22.0	220	220	< 1.0	< 1.0	< 0.040	-	-
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	100	25.0	320	320	< 1.0	< 1.0	< 0.040	-	-
		2004 01 (Spring)	< 0.0030	< 0.0030	0.51	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	0.55	< 0.10	45.5	15.9	192	192	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 1.0	202	38.7	211	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	0.24	< 0.050	27.0	13.0	*260*	*260*	*< 1.0*	*< 1.0*	*< 0.040*	-	-
		2002 02 (Summer)	< 0.010	< 0.010	0.24	< 0.050	< 0.050	300	38.0	280	280	< 1.0	< 1.0	< 0.040	-	-
	M011-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.017	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	*< 0.010*	*< 0.010*	*0.092*	-	-	-	-	-	-	-	-	-	-	-
	M012-A	2007 01 (Spring)	-	-	-	0.040 J	< 0.050	43.0	8.8	150	150	< 6.7	< 6.7	< 0.040	310	-
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	17.0	2.7	110	110	< 1.0	< 1.0	< 0.040	300	-
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	340	46.0	140	140	< 1.0	< 1.0	< 0.040	130	-
		2004 04 (Winter)	-	-	-	0.080	< 0.050	250	34.0	120	120	< 1.0	< 1.0	< 0.040	580	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M012-A	2004 02 (Summer)	-	-	-	0.10	< 0.050	160	20.0	98.0	98.0	< 1.0	< 1.0	< 0.040	390	-
		2004 01 (Spring)	< 0.0030	< 0.0030	0.80	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	0.32	< 0.10	125 J	24.3	138	138	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	0.12	< 0.10	124	14.7	74.5	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	0.15	< 0.050	250	31.0	120	120	< 1.0	< 1.0	0.11	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	0.35	< 0.050	45.0	9.7	77.0	77.0	< 1.0	< 1.0	< 0.040	-	-
	M013-A	2004 01 (Spring)	< 0.0030	< 0.0030	< 0.0030	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-	-
	M014-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.0018 J	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-	-
	M016-A	2007 01 (Spring)	-	-	-	< 0.20	< 0.50	3100	480	1100	1100	< 10.0	< 10.0	< 0.040	6650	-
		2006 01 (Spring)	-	-	-	< 0.10	< 0.10	800 J	110	1300	1300	< 1.0	< 1.0	< 0.040	3030	-
		2005 02 (Summer)	-	-	-	< 0.15	< 0.25	2500	460	1100	1100	< 1.0	< 1.0	< 0.040	5650	-
		2004 04 (Winter)	-	-	-	< 1.3	< 1.3	12000	1800	410	410	< 1.0	< 1.0	< 0.040	20700	-
		2004 02 (Summer)	-	-	-	< 0.25	< 0.50	3400	1100	950	950	< 1.0	< 1.0	< 0.040	7720	-
		2004 01 (Spring)	< 0.0030	< 0.0030	0.40	-	-	-	-	-	-	-	-	-	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2003 04 (Winter)	-	-	-	< 1.0	< 10.0	8390	1480	513	513	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	3490	817	924	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	14000	1800	320	320	< 1.0	< 1.0	0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	0.28	< 0.25	< 0.25	2000	850	1100	1100	< 1.0	< 1.0	< 0.040	-	-
	M016-E	2005 02 (Summer)	-	-	-	< 0.50	< 1.0	7800	340	2300	2300	< 1.0	< 1.0	< 0.040	11500	-
		2004 04 (Winter)	-	-	-	< 1.0	< 1.0	10000	1400	630	630	< 1.0	< 1.0	< 0.040	18500	-
		2004 02 (Summer)	-	-	-	< 0.50	< 1.3	6400	270	2200	2200	< 1.0	< 1.0	< 0.040	12100	-
		2004 01 (Spring)	0.0012 J	< 0.0030	0.58	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	< 10.0	8410	1360	651	651	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	6940	293	2130	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	11000	1500	520	520	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	*< 0.010*	*< 0.010*	*0.78*	*< 0.50*	*< 0.50*	6100	270	2300	2300	< 1.0	< 1.0	< 0.040	-	-
	M017-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.015	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-	-
	M018-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.015	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-E	2002 02 (Summer)	< 0.010	< 0.010	0.011	-	-	-	-	-	-	-	-	-	-	-
	M019-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.0015 J	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-	-
	M019-E	2002 02 (Summer)	< 0.010	< 0.010	0.011	-	-	-	-	-	-	-	-	-	-	-
	M020-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.050	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-	-
	M020-E	2004 01 (Spring)	< 0.0030	< 0.0030	0.026	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	0.039	-	-	-	-	-	-	-	-	-	-	-
	M021-A	2004 01 (Spring)	0.0008 J	< 0.0030	0.66	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	1.4	-	-	-	-	-	-	-	-	-	-	-
	M021-E	2004 01 (Spring)	< 0.0030	< 0.0030	0.055	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	*< 0.010*	*< 0.010*	*0.074*	-	-	-	-	-	-	-	-	-	-	-
	M022-A	2004 01 (Spring)	0.0016 J	< 0.0030	0.68	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	1.5	-	-	-	-	-	-	-	-	-	-	-
	M022-E	2004 01 (Spring)	< 0.0030	< 0.0030	0.030	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	0.048	-	-	-	-	-	-	-	-	-	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2004 01 (Spring)	< 0.0030	< 0.0030	0.49	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	2.2	-	-	-	-	-	-	-	-	-	-	-
	M023-E	2004 01 (Spring)	< 0.0030	< 0.0030	8.5	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	14.0	-	-	-	-	-	-	-	-	-	-	-
	M024-A	2004 01 (Spring)	0.0007 J	< 0.0030	4.6	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	8.2	-	-	-	-	-	-	-	-	-	-	-
	M024-E	2004 01 (Spring)	0.0015 J	< 0.0030	0.72	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	0.50	-	-	-	-	-	-	-	-	-	-	-
	M036-A	2007 01 (Spring)	-	-	-	*< 0.20*	*< 0.50*	*3100*	*27.0*	*1500*	*1500*	*< 10.0*	*< 10.0*	0.20	7870	-
		2006 01 (Spring)	-	-	-	< 0.20	< 0.20	1600	0.50 J	970	970	< 1.0	< 1.0	0.12	3280	-
		2005 02 (Summer)	-	-	-	< 0.10	< 0.20	1800	< 1.0	1200	1200	< 1.0	< 1.0	0.090	4340	-
		2004 04 (Winter)	-	-	-	< 0.25	< 0.25	2700	1.1 J	1300	1300	< 1.0	< 1.0	0.18	5320	-
		2004 02 (Summer)	-	-	-	< 0.25	< 0.25	2700	0.77 J	1300	1300	< 1.0	< 1.0	0.40	5380	-
		2004 01 (Spring)	< 0.0030	< 0.0030	7.2	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	2980 J	56.6	1380	1380	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 0.50	< 5.0	3050	0.42 J	1220	-	-	-	< 1.0	-	-

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-A	2002 04 (Winter)	-	-	-	0.50 J	< 0.50	4200	37.0	1400	1400	< 1.0	< 1.0	3.1	-	-
		2002 02 (Summer)	< 0.010	< 0.010	11.0	< 0.25	< 0.25	2400	3.3	1300	1300	< 1.0	< 1.0	< 0.040	-	-
	M036-E	2005 02 (Summer)	-	-	-	< 1.0	< 1.3	11000	< 10.0	1500	1500	< 1.0	< 1.0	< 0.040 UJ	22800	-
		2004 04 (Winter)	-	-	-	< 1.3	< 1.3	13000	< 13.0	1500	1500	< 1.0	< 1.0	< 0.040	20400	-
		2004 02 (Summer)	-	-	-	< 1.3	< 1.3	13000	< 13.0	1600	1600	< 1.0	< 1.0	< 0.040	21400	-
		2004 01 (Spring)	< 0.0030	< 0.0030	4.6	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	-	10600 J	< 0.50	1460	1460	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	13700	< 5.0	1460	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	13000	< 25.0	1500	1500	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	14.0	< 0.50	< 0.50	14000	< 5.0	1600	1600	< 1.0	< 1.0	< 0.040	-	-
	M037-A	2007 01 (Spring)	-	-	-	< 0.15	< 0.25	2400	6.3	1900	1900	< 10.0	< 10.0	0.050 J	5670	-
		2006 01 (Spring)	-	-	-	< 0.25	< 0.50	3300	120	1700	1700	< 1.0	< 1.0	< 0.040	7040	-
		2005 02 (Summer)	-	-	-	< 0.25	< 0.50	4100	< 2.5	2000	2000	< 1.0	< 1.0	< 0.040	9000	-
		2004 04 (Winter)	-	-	-	< 0.25	< 0.50	3200	< 2.5	2200	2200	< 1.0	< 1.0	< 0.040	6410	-
		2004 02 (Summer)	-	-	-	< 0.50	< 0.50	5100	< 5.0	2100	2100	< 1.0	< 1.0	< 0.040	9930	-
		2004 01 (Spring)	< 0.0030	< 0.0030	6.2	-	-	-	-	-	-	-	-	-	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-A	2003 04 (Winter)	-	-	-	1.5	< 1.0	2880 J	8.6	2220	2220	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 0.50	< 10.0	3790	< 0.50	2210	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	2900	64.0	2300	2300	< 1.0	< 1.0	0.20	-	-
		2002 02 (Summer)	< 0.010	< 0.010	5.7	< 0.25	< 0.25	5100	27.0	2300	2300	< 1.0	< 1.0	< 0.040	-	-
	M037-E	2005 02 (Summer)	-	-	-	< 1.0	< 2.5	14000	< 10.0	1500	1500	< 1.0	< 1.0	< 0.040	27100	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	15000	< 13.0	1600	1600	< 1.0	< 1.0	< 0.040	25700	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	16000	< 13.0	1500	1500	< 1.0	< 1.0	< 0.040	25100	-
		2004 01 (Spring)	< 0.0030	< 0.0030	4.5	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	3.9	-	13400 J	< 0.50	1580	1580	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	17300	< 5.0	1560	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	15000	< 25.0	1700	1700	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	11.0	< 0.50	< 0.50	18000	< 5.0	1700	1700	< 1.0	< 1.0	< 0.040	-	-
	M038-A	2007 01 (Spring)	-	-	-	0.11	< 0.10	820	12.0	1500	1500	< 10.0	< 10.0	< 0.040	3170	-
		2006 01 (Spring)	-	-	-	< 0.050	< 0.10	960	220	890	890	< 1.0	< 1.0	< 0.040	13500	-
		2004 04 (Winter)	-	-	-	< 0.50	< 1.0	8800	7.3	2500	2500	< 1.0	< 1.0	< 0.040	17900	-
		2004 01 (Spring)	< 0.0030	< 0.0030	3.8	-	-	-	-	-	-	-	-	-	-	-

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-A	2003 04 (Winter)	-	-	-	< 1.0	< 1.0	5540	109	2420	2420	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	10100	5.0	-	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.25	< 0.25	1900	400	1700	1700	< 1.0	< 1.0	0.14	-	-
		2002 02 (Summer)	< 0.010	< 0.010	7.6	-	-	-	-	-	-	-	-	-	-	-
	M038-E	2005 02 (Summer)	-	-	-	< 1.0	< 2.5	16000	1.4 J	2300	2300	< 1.0	< 1.0	< 0.040	28200	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	17000	< 13.0	520	520	< 1.0	< 1.0	< 0.040	29000	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	17000	< 13.0	2300	2300	< 1.0	< 1.0	< 0.040	28500	-
		2004 01 (Spring)	< 0.0030	< 0.0030	8.1	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	-	14000 J	< 0.50	2340	2340	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	16900	< 5.0	2170	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	16000	< 25.0	2400	2400	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	9.0	< 0.50	< 0.50	17000	< 3.0 J	2300	2300	< 1.0	< 1.0	< 0.040	-	-
	M039-A	2007 01 (Spring)	-	-	-	0.040 J	< 0.10	710	1.8	1400	1400	< 10.0	< 10.0	0.070	2440	-
		2006 01 (Spring)	-	-	-	< 0.050	< 0.050	430	6.9	870	870	< 1.0	< 1.0	0.20	1450 J	-
		2005 02 (Summer)	-	-	-	< 0.050	< 0.10	730	< 0.50	1400	1400	< 1.0	< 1.0	0.12	2360	-
		2004 04 (Winter)	-	-	-	< 0.050	< 0.10	900	5.3	1500	1500	< 1.0	< 1.0	2.2	2660	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M039-A	2004 02 (Summer)	-	-	-	< 0.050	< 0.10	660	< 0.50	1400	1400	< 1.0	< 1.0	0.17	2470	-
		2004 01 (Spring)	< 0.0030	< 0.0030	4.3	-	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	0.30	< 1.0	779 J	2.1	1500	1500	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 0.50	834	0.48 J	1360	-	-	-	1.2	-	-
		2002 04 (Winter)	-	-	-	< 0.10	< 0.10	490	120	1100	1100	< 1.0	< 1.0	0.36	-	-
		2002 02 (Summer)	< 0.010	< 0.010	13.0	< 0.10	< 0.10	1100	< 1.0	1600	1600	< 1.0	< 1.0	< 0.040	-	-
SWBZ	M010-B	2007 01 (Spring)	-	-	-	0.070 J	< 0.50	4400	0.58 J	1400	1400	< 10.0	< 10.0	< 0.040	7190	-
		2006 01 (Spring)	-	-	-	< 0.50	< 0.50	4900 J	< 5.0	1600	1600	< 1.0	< 1.0	0.050	9640	-
		2005 02 (Summer)	-	-	-	< 0.20	< 0.50	3200	270	700	700	< 1.0	< 1.0	< 0.040	6010	-
		2004 04 (Winter)	-	-	-	< 0.50	< 0.50	5200	< 5.0	1600	1600	< 1.0	< 1.0	< 0.040	9600	-
		2004 02 (Summer)	-	-	-	< 0.50	< 0.50	5100	< 5.0	1600	1600	< 1.0	< 1.0	< 0.040	10600	-
		2003 04 (Winter)	-	-	-	< 0.10	< 1.0	7170	< 0.50	1620	1620	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 100	5610	< 0.50	1550	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 0.25	< 0.50	5000	< 2.5	1500	1500	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	25.0 J	< 0.50	< 0.50	5300	< 5.0	1600	1600	< 1.0	< 1.0	< 0.040	-	-
	M012-B	2007 01 (Spring)	-	-	-	< 1.0	< 2.5	15000	1500	800	800	< 6.7	< 6.7	< 0.040	25500	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M012-B	2006 01 (Spring)	-	-	-	< 1.0	< 1.0	15000	1300	740	740	< 1.0	< 1.0	< 0.040	27200	-
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	14000	1500	1000	1000	< 1.0	< 1.0	< 0.040	25700	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	16000	1400	780	780	< 1.0	< 1.0	< 0.040	25700	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	16000	1400	770	770	< 1.0	< 1.0	< 0.040	26400	-
		2003 04 (Winter)	-	-	-	1.6	-	12200	1410	1090	1090	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	18300	1490	748	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	16000	1600	750	750	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	16000	1300	740	740	< 1.0	< 1.0	< 0.040	-	-
	M013-C	*2002 02 (Summer)*	*< 0.010*	*< 0.010*	*< 0.010*	-	-	-	-	-	-	-	-	-	-	-
	M014-B	2002 02 (Summer)	< 0.010	< 0.010	0.012	-	-	-	-	-	-	-	-	-	-	-
	M016-B	2007 01 (Spring)	-	-	-	< 1.0	< 2.5	15000	2200	460	460	< 10.0	< 10.0	< 0.040	27500	-
		2006 01 (Spring)	-	-	-	< 1.3	< 2.5	15000 J	2100	420	420	< 1.0	< 1.0	< 0.040	28800	-
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	15000	2200	560	560	< 1.0	< 1.0	< 0.040 UJ	-	48300000
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	16000	2200	410	410	< 1.0	< 1.0	< 0.040	27000	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	16000	2200	440	440	< 1.0	< 1.0	< 0.040	27700	-
		2003 04 (Winter)	-	-	-	< 1.0	-	13400	2200	530	530	< 5.0	-	< 1.0	-	-

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWMU 2	M016-B	2003 02 (Summer)	-	-	-	< 1.0	< 10.0	20500	2270	405	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	16000	2200	400	400	< 1.0	< 1.0	0.040	-	-
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	< 0.010 UJ	< 0.50	< 0.50	16000	2100	420	420	< 1.0	< 1.0	< 0.040	-	-
	M020-B	2002 02 (Summer)	< 0.010	< 0.010	28.0	-	-	-	-	-	-	-	-	-	-	-
	M021-C	2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	36.0 J	-	-	-	-	-	-	-	-	-	-	-
	M023-B	2002 02 (Summer)	< 0.010	< 0.010	27.0	-	-	-	-	-	-	-	-	-	-	-
	M023-C	2002 02 (Summer)	< 0.010	< 0.010	28.0	-	-	-	-	-	-	-	-	-	-	-
	M036-B	2007 01 (Spring)	-	-	-	< 0.20	< 0.50	3700	< 2.0	2100	2100	< 10.0	< 10.0	< 0.040	7350	-
		2006 01 (Spring)	-	-	-	< 0.25	< 0.50	3900	< 2.5	1900	1900	< 1.0	< 1.0	< 0.040	7820	-
		2005 02 (Summer)	-	-	-	< 0.25	< 0.50	3900	< 2.5	2100	2100	< 1.0	< 1.0	< 0.040 UJ	7820	-
		2004 04 (Winter)	-	-	-	< 0.25	< 0.50	4000	< 2.5	2000	2000	< 1.0	< 1.0	< 0.040	11900	-
		2004 02 (Summer)	-	-	-	0.090 J	< 0.50	4000	< 2.5	2000	2000	< 1.0	< 1.0	< 0.040	7900	-
		2003 04 (Winter)	-	-	-	< 0.10 UJ	< 1.0	3450 J	0.37 J	1310	1310	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 0.50	< 10.0	5210	< 0.50	1950	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	3900	< 5.0	2100	2100	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	21.0	< 0.23 J	< 0.25	4300	< 2.5	2100	2100	< 1.0	< 1.0	< 0.040	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M037-B	2007 01 (Spring)	-	-	-	< 0.15	< 0.25	2300	< 1.5	920	920	< 10.0	< 10.0	< 0.040 UJ	-	-
		2006 01 (Spring)	-	-	-	< 0.25	< 0.25	2200	< 2.5	870	870	< 1.0	< 1.0	< 0.040	4860	-
		2005 02 (Summer)	-	-	-	< 0.15	< 0.25	2200	< 1.5	1100	1100	< 1.0	< 1.0	< 0.040	4800	-
		2004 04 (Winter)	-	-	-	< 0.25	< 0.25	2300	< 2.5	890	890	< 1.0	< 1.0	< 0.040	4140	-
		2004 02 (Summer)	-	-	-	< 0.25	< 0.25	2400	< 2.5	830	830	< 1.0	< 1.0	< 0.040	4460	-
		2003 04 (Winter)	-	-	-	0.20 J	< 1.0	2070 J	< 0.50	1760	1760	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	2.8 J	< 5.0	2570	0.55	868	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	2200	< 5.0	960	960	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	33.0	< 0.25	< 0.25	2400	< 2.5	380	380	< 1.0	< 1.0	< 0.040	-	-
	M038-B	2007 01 (Spring)	-	-	-	< 1.0	< 2.5	14000	1800	540	540	< 10.0	< 10.0	< 0.040 UJ	24000	-
		2006 01 (Spring)	-	-	-	< 1.0	< 2.5	14000	1700	530	530	< 1.0	< 1.0	< 0.040	27400	-
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	13000	1700	660	660	< 1.0	< 1.0	< 0.040 UJ	30800	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	15000	1800	520	520	< 1.0	< 1.0	< 0.040	26000	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	15000	1800	520	520	< 1.0	< 1.0	< 0.040	26100	-
		2003 04 (Winter)	-	-	-	< 1.0	< 10.0	13700	428	553	553	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	16900	1900	519	-	-	-	< 1.0	-	-

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-11

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS	
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M038-B	2002 04 (Winter)	-	-	-	< 2.5	< 2.5	14000	1800	550	550	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	15000	1800	530	530	< 1.0	< 1.0	< 0.040	-	-
	M039-B	2007 01 (Spring)	-	-	-	< 1.0	< 2.5	15000	2000	510	510	< 10.0	< 10.0	< 0.040	25900	-
		2006 01 (Spring)	-	-	-	< 1.0	< 2.5	14000	2000	490	490	< 1.0	< 1.0	< 0.040	28500 J	-
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	15000	2000	490	490	< 1.0	< 1.0	< 0.040	45500	-
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	16000	2000	480	480	< 1.0	< 1.0	< 0.040	28600	-
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	16000	1900	480	480	< 1.0	< 1.0	< 0.040	27600	-
		2003 04 (Winter)	-	-	-	< 1.0	-	14300 J	2090 J	553	553	< 5.0	-	< 1.0	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	17900	2080	472	-	-	-	< 1.0	-	-
		2002 04 (Winter)	-	-	-	0.80 J	< 2.5	15000	2000	590	590	< 1.0	< 1.0	< 0.040	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	16000	2000	520	520	< 1.0	< 1.0	< 0.040	-	-

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
Well No.	**Event**	**Units:**	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-01-D	2007 01 (Spring)	12.0	< 0.013	< 0.0013	< 0.0013	11.0	70.0	7.4	7.8	< 1.8	< 1.8	< 1.8	< 18.0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	4.3	< 1.8	130	< 1.8	< 1.8	< 1.8
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.65	< 0.65	< 0.65	< 0.65	< 6.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	110	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	-	-	-	-	-	-	-	< 0.66	0.78	< 0.66	1.1	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	7.7	< 0.66	< 0.66	< 0.66
		2006 02 (Summer)	-	-	-	-	-	-	-	< 0.72	< 0.72	< 0.72	0.95	< 7.2	< 0.72	< 0.72	0.84	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	24.0	< 0.72	< 0.72	< 0.72
		2006 01 (Spring)	2.0	< 0.013	< 0.0013	< 0.0013	0.0006	78.0	20.0	< 0.67	0.97	0.85	3.1	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	9.2	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	4.2	< 0.013	< 0.0013	< 0.0013	0.0003	78.0	16.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	12.0	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.73	< 0.73	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	61.0	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	-	-	-	-	-	-	-	1.8	2.3	0.28	1.5	0.20 J	< 1.0	< 0.20	0.23	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 3.6	0.096 J	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	0.38	0.69	0.16 J	0.84	0.88	< 1.0	< 0.20	0.14 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	19.0	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	2.0	< 0.0018	< 0.0009	< 0.0009	0.67	-	20.0	2.1	5.6	1.0	5.7	1.0	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.5 J	< 0.20	< 0.20	< 0.20
		2003 03 (Fall)	-	-	-	-	-	-	-	2.0	< 1.0	< 1.0	< 1.0	90.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	1.0	1.0	< 1.0	2.0	84.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	-	-	-	-	1.0	< 1.4	< 0.91	< 2.3	2.3 J	< 4.5	3.7	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91 UJ	1.3 J	< 0.91	< 0.91	< 0.91
		2002 03 (Fall)	0.068	< 0.0018	< 0.0009	< 0.0009	0.0003	-	40.0	1.4	0.98	0.67	2.0	0.37 J	0.27 J	< 0.20	0.23	< 0.20	< 0.20	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	12.0	< 0.20	< 0.20	< 0.20
	MG2-01-S	2007 01 (Spring)	0.33	< 0.013	< 0.0013	< 0.0013	0.067	79.0	21.0	< 0.67	< 0.67	0.78	1.6	79.0	< 0.67	12.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	120	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.65	< 0.65	< 0.65	< 0.65	< 6.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	22.0	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	-	-	-	-	-	-	-	< 0.67	1.3	4.9	27.0	< 6.7	< 0.67	7.1	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	8.8	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 1.8	< 1.8	< 1.8	< 1.8	< 18.0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	77.0	< 1.8	< 1.8	< 1.8
		2006 01 (Spring)	1.2	< 0.014	< 0.0014	< 0.0014	< 0.0001	79.0	20.0	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	3.9	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	17.0	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	0.64	0.063	< 0.0013	< 0.0013	0.0002	79.0	20.0	< 0.67 UJ	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	2.8	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	2.4	< 0.013	< 0.0013	< 0.0013	0.0086	79.0	19.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	3.1	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.79	< 0.79	< 0.79	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	8.7	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	-	-	-	-	-	-	-	3.9	9.8	1.5	8.5	0.22 J	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	6.6	< 0.20	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	0.34	0.62	0.13 J	0.76	0.84	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.9	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	2.5	< 0.0017	< 0.0008	< 0.0008	0.61	-	19.0	0.87	2.1	0.49	2.9	0.82	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.085 J	0.53 J	< 0.20	< 0.20	< 0.20
		2003 03 (Fall)	-	-	-	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	20.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 1.0	2.0	< 1.0	5.0	70.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	-	-	-	-	1.1	0.45 J	< 0.90	< 2.2	3.6 J	< 4.5	6.9	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90 UJ	1.6 J	< 0.90	< 0.90	< 0.90
		2002 04 (Winter)	-	-	-	-	-	-	-	0.34 J	0.26 J	< 0.41	< 1.0	3.3	0.26 J	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 1.7	< 0.41	< 0.41	< 0.41

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-01-D	2007 01 (Spring)	< 1.8	< 1.8	14.0	< 7.0 UJ	< 1.8	< 1.8	< 1.8	< 1.8	< 1.0	< 1.8	< 1.8	< 1.8	8.3	< 7.0	< 1.8	< 1.8	< 1.8
		2006 04 (Winter)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	7.0	< 2.6	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	1.1	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 02 (Summer)	< 0.72	< 0.72	6.2	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.4	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.5	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.73	< 0.73	< 0.73	2.9	< 0.73	-	< 0.73	< 0.73	< 1.0	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	0.090 J	< 0.40	1.3	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.77 J	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	0.12 J	< 0.40	0.13 J	0.35 J	< 0.20	0.23 J	0.25	0.063 J	< 1.0	< 0.20	< 0.20	< 0.20	5.6	< 0.40	0.27 J	< 0.20	< 0.20
		2003 04 (Winter)	0.091 J	0.19 J	0.40	< 0.40	< 0.20	< 0.40	0.099 J	0.35 J	< 1.0	< 0.20	< 0.20	< 0.20	0.60 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 1.0	< 1.0	5.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 02 (Summer)	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	< 0.91	< 1.8	< 0.91	< 1.8	< 0.91	0.73 J	< 0.91	< 0.91	< 4.5	< 0.91	< 0.91	< 0.91	< 4.5	< 1.8	< 1.8	< 0.91	< 0.91
		2002 03 (Fall)	0.081 J	0.56	< 0.20	< 0.40	< 0.20	2.2	0.16 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	1.1	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-01-S	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	9.7	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	2.2	< 2.6	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.9	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 1.8	< 1.8	< 1.8	< 7.1	< 1.8	< 1.8	< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	1.9	< 7.1	< 1.8	< 1.8	< 1.8
		2006 01 (Spring)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	2.4	< 2.7	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	0.86	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	-	< 0.79	< 0.79	< 1.0	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	0.10 J	< 0.40	0.25	0.25 J	< 0.20	0.051 J	< 0.20	0.25 J	< 1.0	< 0.20	< 0.20	< 0.20	1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	0.11 J	< 0.40	0.12 J	0.41	< 0.20	0.30 J	0.25	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.38 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	0.091 J	0.37 J	0.61	< 0.40	< 0.20	< 0.40	< 0.20	0.15 J	< 1.0	< 0.20	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 01 (Spring)	< 0.90	< 1.8	< 0.90	< 1.8	< 0.90	0.73 J	< 0.90	< 0.90	< 4.5	< 0.90	< 0.90	< 0.90	< 4.5	< 1.8	< 1.8	< 0.90	< 0.90
		2002 04 (Winter)	< 0.41	< 0.83	< 0.41	0.26 J	< 0.41	0.17 J	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41	< 2.1	< 0.83 UJ	< 0.83	< 0.41	< 0.41

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
Well No.	**Event**	**Units:**	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE																													
MG2-01-S	2002 03 (Fall)		1.8	< 0.0017	< 0.0008	< 0.0008	0.27	-	21.0	0.43	0.31	0.15 J	0.76	0.11 J	< 1.0	< 0.20	0.13 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.6	< 0.20	< 0.20	< 0.20
MG2-02-D	2007 01 (Spring)		24.0	< 0.013	< 0.0013	< 0.0013	12.0	63.0	1.1	290	13.0	< 7.2	< 7.2	< 72.0	< 7.2	590	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	240	< 7.2	< 7.2	< 7.2
	2006 04 (Winter)		-	-	-	-	-	-	-	300	14.0	< 6.7	8.3	< 67.0	< 6.7	690	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	31.0	< 6.7	< 6.7	< 6.7
	2006 03 (Fall)		-	-	-	-	-	-	-	410	21.0	7.5	21.0	< 54.0	< 5.4	1200	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	5.6	26.0	< 5.4	< 5.4	< 5.4
	2006 02 (Summer)		-	-	-	-	-	-	-	430	16.0	5.2	11.0	< 34.0	< 3.4	810	< 3.4	< 3.4	< 3.4	3.6	< 3.4	< 3.4	< 3.4	< 3.4	7.8	97.0	< 3.4	< 3.4	< 3.4
	2005 02 (Summer)		27.0	< 0.014	< 0.0014	< 0.0014	11.0	61.0	0.82	500 J	19.0	< 6.8	14.0	< 68.0	< 6.8	1100	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	< 6.8	< 6.8
	2004 04 (Winter)		-	-	-	-	-	-	-	450	16.0	< 5.4	10.0	< 54.0	< 5.4	900	< 5.4	< 5.4	< 5.4	6.4	< 5.4	< 5.4	< 5.4	< 5.4	11.0	< 22.0	< 5.4	< 5.4	< 5.4
	2004 02 (Summer)		-	-	-	-	-	-	-	520	21.0	7.5 J	23.0	< 45.0	< 18.0	940	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 91.0	< 18.0	< 18.0	< 18.0
	2003 04 (Winter)		25.0	< 0.0017	0.0007 J	< 0.0008	20.0	-	0.86	350	18.0	6.7	23.0	< 5.0	< 2.0	730	< 2.0	1.3 J	< 2.0	6.5	0.84 J	< 2.0	< 2.0	< 2.0	7.2	7.3 J	< 2.0	< 2.0	< 2.0
	2003 03 (Fall)		-	-	-	-	-	-	-	262	54.0	< 20.0	< 20.0	< 100	< 20.0	554	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 100	< 20.0	< 20.0	< 20.0
	2003 02 (Summer)		-	-	-	-	-	-	-	313	35.0	< 29.0	< 29.0	115 J	< 29.0	679	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 140	< 29.0	< 29.0	< 29.0
	2003 01 (Spring)		-	-	-	-	-	-	-	440	29.0	6.2	26.0	3.0 J	< 5.4	640	< 5.4	< 5.4	< 5.4	3.4 J	< 5.4	< 5.4	< 5.4	< 5.4	14.0	< 27.0	< 5.4	< 5.4	< 5.4
	2002 03 (Fall)		20.0	< 0.0031	0.0007 J	< 0.0015	11.0	-	5.9	630	27.0	12.0	67.0	4.5 J	< 6.2	1200	< 6.2	< 6.2	< 6.2	6.2	< 6.2	< 6.2	< 6.2	< 6.2	6.5	9.1 J	< 6.2	< 6.2	< 6.2
MG2-02-M	2007 01 (Spring)		24.0	< 0.013	0.0014	< 0.0013	14.0	61.0	0.96	280	12.0	< 8.6	< 8.6	< 86.0	< 8.6	500	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	160	< 8.6	< 8.6	< 8.6
	2006 04 (Winter)		-	-	-	-	-	-	-	270	14.0	< 5.2	7.4	< 52.0	< 5.2	600	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	6.4	25.0	< 5.2	< 5.2	< 5.2
	2006 03 (Fall)		-	-	-	-	-	-	-	330	20.0	12.0	47.0	< 54.0	< 5.4	880	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	25.0	< 5.4	< 5.4	< 5.4
	2006 02 (Summer)		-	-	-	-	-	-	-	600	29.0	11.0	19.0	< 96.0	< 9.6	1300	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	45.0	< 9.6	< 9.6	< 9.6
	2006 01 (Spring)		16.0	< 0.014	< 0.0014	< 0.0014	13.0	66.0	5.4	200	24.0	< 6.8	< 6.8	< 68.0 UJ	< 6.8	350	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	39.0	< 6.8	< 6.8	< 6.8
	2005 02 (Summer)		27.0	< 0.013	< 0.0013	< 0.0013	11.0	61.0	0.96	450 J	22.0	8.1	17.0	< 38.0	< 3.8	1100	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	4.9	< 15.0	< 3.8	< 3.8	< 3.8
	2005 01 (Spring)		13.0	< 0.014	0.0023	< 0.0014	22.0	56.0	9.1	240	< 14.0	< 14.0	< 14.0	< 140	< 14.0	420	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 56.0	< 14.0	< 14.0	< 14.0
	2004 04 (Winter)		-	-	-	-	-	-	-	460	19.0	< 5.6	15.0	< 56.0	< 5.6	800	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	12.0	< 22.0	< 5.6	< 5.6	< 5.6
	2004 02 (Summer)		-	-	-	-	-	-	-	430	29.0	8.2 J	36.0	< 41.0	< 17.0	890	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	40.0 J	< 17.0	< 17.0	< 17.0
	2004 01 (Spring)		-	-	-	-	-	-	-	490	82.0	11.0	61.0	2.4 J	< 11.0	810	< 2.2	1.0 J	< 2.2	5.0	0.79 J	< 2.2	< 2.2	< 2.2	23.0	12.0	< 2.2	< 2.2	1.0 J
	2003 04 (Winter)		25.0	< 0.0017	0.0010	< 0.0008	22.0	-	0.79	300	21.0	6.8	27.0	2.3 J	< 2.0	630	< 2.0	0.80 J	< 2.0	4.2	0.85 J	< 2.0	< 2.0	< 2.0	6.5	50.0	< 2.0	< 2.0	< 2.0
	2003 03 (Fall)		-	-	-	-	-	-	-	301 J	55.0 J	5.6	< 4.0	< 20.0	< 4.0	797	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0
	2003 02 (Summer)		-	-	-	-	-	-	-	378	42.0	< 22.0	< 22.0	150	< 22.0	649	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 22.0	< 22.0	< 22.0
	2003 01 (Spring)		-	-	-	-	-	-	-	420	43.0	7.0	31.0	7.2 J	< 4.9	650	2.6 J	4.0 J	< 4.9	3.4 J	< 4.9	< 4.9	< 4.9	< 4.9	14.0	< 25.0	< 4.9	< 4.9	< 4.9
	2002 04 (Winter)		-	-	-	-	-	-	-	420	40.0	9.6	44.0	6.9	< 11.0	680	< 2.1	0.99 J	< 2.1	5.6	0.78 J	0.75 J	< 2.1	< 2.1	20.0	< 9.6	< 2.1	< 2.1	< 2.1
	2002 03 (Fall)		16.0	< 0.0018	0.0004 J	< 0.0008	6.9	-	7.7	380	26.0	11.0	50.0	10.0	< 3.9	850	< 3.9	< 3.9	< 3.9	2.9 J	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	24.0	< 3.9	< 3.9	< 3.9

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-01-S	2002 03 (Fall)	0.096 J	< 0.40	0.10 J	< 0.40	< 0.20	0.56	0.13 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.38 J	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-02-D	2007 01 (Spring)	< 7.2	< 7.2	< 7.2	< 29.0	< 7.2	16.0	< 7.2	< 7.2	< 1.0	< 7.2	< 7.2	< 7.2	< 7.2	< 29.0	< 7.2	< 7.2	< 7.2
		2006 04 (Winter)	< 6.7	< 6.7	< 6.7	< 27.0	< 6.7	26.0	< 6.7	< 6.7 UJ	< 13.4	< 6.7	< 6.7	< 6.7	< 6.7	< 27.0	< 6.7	< 6.7 UJ	< 6.7
		2006 03 (Fall)	< 5.4	< 5.4	< 5.4	< 21.0	< 5.4	42.0	< 5.4	< 5.4	< 10.7	< 5.4	< 5.4	< 5.4	< 5.4	< 21.0	< 5.4	< 5.4 UJ	< 5.4
		2006 02 (Summer)	< 3.4	< 3.4	< 3.4	< 14.0	< 3.4	22.0	< 3.4	< 3.4	< 6.8	< 3.4	< 3.4	< 3.4	< 3.4	< 14.0	< 3.4	< 3.4 UJ	< 3.4
		2005 02 (Summer)	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	50.0	< 6.8	< 6.8	< 1.0	< 6.8	< 6.8	< 6.3	< 6.8	< 27.0 UJ	< 6.8 UJ	< 6.8	< 6.8
		2004 04 (Winter)	< 5.4	5.7	< 5.4	< 22.0	< 5.4	-	< 5.4	< 5.4	< 1.0	< 5.4	< 5.4	< 5.4	< 5.4	< 22.0	< 5.4	< 5.4	< 5.4
		2004 02 (Summer)	< 18.0	10.0 J	< 18.0	< 36.0	< 18.0	64.0	< 18.0	< 18.0	< 91.0	< 18.0	< 18.0	< 18.0	< 91.0	< 91.0	< 91.0	< 18.0	< 18.0
		2003 04 (Winter)	< 2.0	7.0	< 2.0	< 4.0	< 2.0	59.0	1.8 J	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 100	< 100	< 100	< 20.0	< 20.0
		2003 02 (Summer)	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	59.0	< 29.0	< 29.0	< 29.0 UJ	< 29.0	< 29.0	< 29.0	< 140	< 140	< 140	< 29.0	< 29.0
		2003 01 (Spring)	< 5.4	< 11.0	< 5.4	< 11.0	< 5.4	47.0	< 5.4	< 5.4	< 27.0	< 5.4	< 5.4	< 5.4	< 27.0	< 27.0	< 27.0	< 5.4	< 5.4
		2002 03 (Fall)	< 6.2	17.0	< 6.2	< 12.0	< 6.2	81.0	< 6.2	< 6.2	< 31.0	< 6.2	< 6.2	< 6.2	< 31.0	< 31.0	< 31.0	< 6.2	< 6.2
	MG2-02-M	2007 01 (Spring)	< 8.6	< 8.6	< 8.6	< 34.0	< 8.6	14.0	< 8.6	< 8.6	< 1.0	< 8.6	< 8.6	< 8.6	< 8.6	< 34.0	< 8.6	< 8.6	< 8.6
		2006 04 (Winter)	< 5.2	< 5.2	< 5.2	< 21.0	< 5.2	25.0	< 5.2	< 5.2 UJ	< 10.3	< 5.2	< 5.2	< 5.2	< 5.2	< 21.0	< 5.2	< 5.2 UJ	< 5.2
		2006 03 (Fall)	< 5.4	< 5.4	< 5.4	< 21.0	< 5.4	35.0	< 5.4	< 5.4	< 10.7	< 5.4	< 5.4	< 5.4	< 5.4	< 21.0	< 5.4	< 5.4 UJ	< 5.4
		2006 02 (Summer)	< 9.6	< 9.6	< 9.6	< 38.0	< 9.6	55.0	< 9.6	< 9.6	< 19.2	< 9.6	< 9.6	< 9.6	< 9.6	< 38.0	< 9.6	< 9.6	< 9.6
		2006 01 (Spring)	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	10.0	< 6.8	< 6.8	< 13.6	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	< 6.8 UJ	< 6.8
		2005 02 (Summer)	< 3.8	< 3.8	< 3.8	< 15.0	< 3.8	54.0	< 3.8	< 3.8	< 1.0	< 3.8	< 3.8	< 3.8	< 3.8	< 15.0 UJ	< 3.8 UJ	< 3.8	< 3.8
		2005 01 (Spring)	< 14.0	< 14.0	< 14.0	< 56.0	< 14.0	21.0	< 14.0	< 14.0	< 1.0	< 14.0	< 14.0	< 14.0	< 14.0	< 56.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	< 5.6	6.0	< 5.6	< 22.0	< 5.6	-	< 5.6	< 5.6	< 1.0	< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	< 5.6	< 5.6
		2004 02 (Summer)	< 17.0	11.0 J	< 17.0	< 33.0	< 17.0	74.0	< 17.0	< 17.0	< 83.0	< 17.0	< 17.0	< 17.0	< 83.0	< 83.0	< 83.0	< 17.0	< 17.0
		2004 01 (Spring)	< 2.2	13.0	< 2.2	< 4.3	< 2.2	77.0	2.0 J	< 2.2	< 11.0	< 2.2	< 2.2	< 2.2	< 11.0	< 4.3	< 4.3	< 2.2	< 2.2
		2003 04 (Winter)	< 2.0	8.0	< 2.0	< 4.0	< 2.0	59.0	2.3	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	12.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0 UJ	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	< 4.9	< 9.8	< 4.9	< 9.8	< 4.9	59.0	< 4.9	< 4.9	< 25.0	< 4.9	< 4.9	< 4.9	< 25.0	< 25.0	< 25.0	< 4.9	< 4.9
		2002 04 (Winter)	< 2.1	22.0	< 2.1	< 4.2	< 2.1	93.0 J	3.7	< 2.1	< 11.0	< 2.1	< 2.1	< 2.1	< 11.0	< 4.2 UJ	< 4.2	< 2.1	< 2.1
		2002 03 (Fall)	< 3.9	6.5 J	< 3.9	< 7.8	< 3.9	64.0	< 3.9	1.3 J	< 20.0	< 3.9	< 3.9	< 3.9	4.8 J	< 20.0	< 20.0	< 3.9	< 3.9

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Well No.	Event Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-02-S	2007 01 (Spring)	10.0	< 0.013	< 0.0013	< 0.0013	0.017	78.0	12.0	< 0.65	< 0.65	< 0.65	< 0.65	< 6.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	160	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	50.0	< 0.67	< 0.67	< 0.67
		2006 03 (Fall)	-	-	-	-	-	-	-	< 0.67	1.1	3.3	20.0	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	16.0	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2006 01 (Spring)	7.1	< 0.013	< 0.0013	< 0.0013	0.0070	81.0	12.0	< 0.67	1.5	1.6	6.4	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	11.0	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	7.5	< 0.014	< 0.0014	< 0.0014	0.0013	79.0	13.0	< 0.68 UJ	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	120	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	0.088	< 0.015	< 0.0015	< 0.0015	0.0077	79.0	21.0	< 0.73	1.3	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.72	4.2	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	3.5	< 0.72	< 0.72	< 0.72
		2004 02 (Summer)	-	-	-	-	-	-	-	4.3	1.5 J	< 1.9	5.7	1.5 J	< 9.4	48.0	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	10.0	< 1.9	< 1.9	< 1.9
		2004 01 (Spring)	-	-	-	-	-	-	-	18.0	13.0	2.1	7.5	0.51	< 1.0	21.0	0.46	0.23	< 0.20	0.44	0.087 J	0.46	< 0.20	< 0.20	3.3	150	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	8.2	< 0.0018	< 0.0009	< 0.0009	0.49	-	12.0	3.5	0.74 J	< 2.0	< 2.0	0.55 J	< 2.0	23.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.8 J	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	8.9 J	< 4.0	< 4.0	< 4.0	43.0	< 4.0	78.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	215	< 4.0	6.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 21.0	< 4.0	< 4.0	< 4.0
		2003 01 (Spring)	-	-	-	-	-	-	-	3.5	0.56 J	< 0.96	1.5 J	5.4 J	< 4.8	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	0.38 J	5.6	< 0.96	< 0.96	< 0.96
		2002 04 (Winter)	-	-	-	-	-	-	-	8.5	2.2	0.60 J	3.0	3.3	< 5.2	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	17.0	< 1.0	< 1.0	< 1.0
		2002 03 (Fall)	0.067	< 0.0018	< 0.0009	< 0.0009	0.0002 J	-	40.0	74.0	6.0	2.9	10.0	1.3 J	< 2.0	150	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.4 J	< 2.0	< 2.0	< 2.0
	MG2-03-D	2007 01 (Spring)	20.0	< 0.013	< 0.0013	< 0.0013	0.0077	79.0	1.2	2.9	50.0	3.5	16.0	< 6.5	< 0.65	34.0	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	45.0	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	22.0	< 0.67	< 0.67	< 0.67
		2006 03 (Fall)	-	-	-	-	-	-	-	2.4	1.8	4.4	21.0	< 6.6	< 0.66	38.0	0.74	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	14.0	< 0.66	< 0.66	< 0.66
		2006 02 (Summer)	-	-	-	-	-	-	-	2.2	3.4	0.92	3.0	< 7.2	< 0.72	28.0	0.85	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	180	< 0.72	< 0.72	< 0.72
		2005 02 (Summer)	21.0	< 0.014	< 0.0014	< 0.0014	0.11	78.0	1.3	< 0.68 UJ	1.1	< 0.68	< 0.68	< 6.8	< 0.68	1.2	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	18.0	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	17.0	< 0.014	< 0.0014	< 0.0014	4.2	76.0	1.8	5.4	19.0	8.6	29.0	24.0	< 0.72	4.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	6.0	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	-	-	-	-	-	-	-	1.2	28.0	0.87	1.5	< 8.0	< 0.80	3.8	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	32.0	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	-	-	-	-	-	-	-	3.7	5.8	2.7	6.6	2.2 J	< 9.3	35.0	< 1.9	< 1.9	< 1.9	0.60 J	< 1.9	0.60 J	< 1.9	< 1.9	< 1.9	12.0	< 1.9	< 1.9	< 1.9
		2004 01 (Spring)	-	-	-	-	-	-	-	6.3	3.6	1.6 J	2.8	1.7 J	< 2.0	13.0	< 2.0	0.93 J	< 2.0	< 2.0	< 2.0	0.69 J	< 2.0	< 2.0	< 2.0	5.7 J	< 2.0	< 2.0	< 2.0 UJ
		2003 04 (Winter)	19.0	< 0.0019	< 0.0009	< 0.0009	0.37	-	1.2	4.5	2.6	1.5 J	4.0	1.3 J	< 2.0	18.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.5 J	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	43.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 31.0	< 31.0	< 31.0	< 31.0	163	< 31.0	82.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 150	< 31.0	< 31.0	< 31.0
		2003 01 (Spring)	-	-	-	-	-	-	-	2.6 J	4.3 J	1.8 J	3.0 J	180	< 5.4	17.0	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	7.3 J	< 5.4	< 5.4	< 5.4

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-02-S	2007 01 (Spring)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.0	< 0.65	< 0.65	< 0.65	4.3	< 2.6	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	< 0.67	< 0.67	0.80	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67 UJ	< 1.3	< 0.67	< 0.67	< 0.67	0.82	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	6.6	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	3.6	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	12.0	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	< 1.0	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 04 (Winter)	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 02 (Summer)	< 1.9	< 3.8	1.1 J	< 3.8	< 1.9	5.7	< 1.9	< 1.9	< 9.4	< 1.9	< 1.9	< 1.9	< 9.4	< 3.8	< 3.8	< 1.9	< 1.9
		2004 01 (Spring)	< 0.20	1.5	< 0.20	0.59	< 0.20	5.2	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	9.1	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0	< 4.0	2.6	< 4.0	< 2.0	3.4	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0 UJ	< 4.0	< 4.0	< 4.0	< 21.0	< 21.0	< 21.0	< 4.0	< 4.0
		2003 01 (Spring)	< 0.96	< 1.9	0.31 J	< 1.9	< 0.96	1.4 J	< 0.96	< 0.96	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 1.9	< 1.9	< 0.96	< 0.96
		2002 04 (Winter)	< 1.0	2.3	0.71 J	< 2.1	< 1.0	3.0	4.8	< 1.0	< 5.2	< 1.0	< 1.0	< 1.0	1.6 J	< 2.1	< 2.1	< 1.0	< 1.0
		2002 03 (Fall)	< 2.0	1.3 J	< 2.0	< 4.0	< 2.0	13.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-03-D	2007 01 (Spring)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	1.4	< 0.65	< 0.65	< 1.0	< 0.65	< 0.65	< 0.65	7.0	< 2.6	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67 UJ	< 1.3	< 0.67	< 0.67	< 0.67	0.90	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 03 (Fall)	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	3.4	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	2.2	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 02 (Summer)	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	1.6	< 0.72	< 0.72	< 1.4	< 0.72	< 0.72	< 0.72	2.8	< 2.9	< 0.72	< 0.72 UJ	< 0.72
		2005 02 (Summer)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	0.81	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	0.92	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	3.7	2.8	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	-	< 0.80	< 0.80	< 1.0	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	< 1.9	< 3.7	< 1.9	< 3.7	< 1.9	12.0	< 1.9	< 1.9	< 9.3	< 1.9	< 1.9	< 1.9	< 9.3	< 3.7	< 3.7	< 1.9	< 1.9
		2004 01 (Spring)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	6.4	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	8.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0 UJ	< 31.0	< 31.0	< 31.0	< 150	< 150	< 150	< 31.0	< 31.0
		2003 01 (Spring)	< 5.4	< 11.0	< 5.4	< 11.0	< 5.4	8.7	< 5.4	< 5.4	< 27.0	< 5.4	< 5.4	< 5.4	< 27.0	< 27.0	< 27.0	< 5.4	< 5.4

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-03-D	2002 04 (Winter)	-	-	-	-	-	-	-	12.0	6.6	2.8	6.1	4.3	< 8.5	23.0	< 1.7	< 1.7	< 1.7	0.83 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.8	< 1.7	< 1.7	< 1.7
		2002 03 (Fall)	17.0	< 0.0018	< 0.0009	< 0.0009	0.49	-	5.7	3.2 J	4.7	5.0	4.9	4.3 J	0.96 J	15.0	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	7.2 J	< 3.6	< 3.6	< 3.6
	MG2-03-M	2007 01 (Spring)	14.0	< 0.013	< 0.0013	< 0.0013	0.024	78.0	8.1	< 0.65	< 0.65	< 0.65	< 0.65	< 6.5	< 0.65	< 0.65	2.7	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	68.0	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	-	-	-	-	-	-	-	1.3	< 0.66	< 0.66	0.70	< 6.6	< 0.66	30.0	0.73	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	28.0	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	-	-	-	-	-	-	-	< 0.65	0.84	2.7	15.0	< 6.5	< 0.65	< 0.65	5.1	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	15.0	< 0.65	< 0.65	< 0.65
		2006 02 (Summer)	-	-	-	-	-	-	-	5.6	< 0.70	< 0.70	0.95	< 7.0	< 0.70	54.0	6.7	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	140	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	23.0	< 0.020	< 0.0020	< 0.0020	8.9	67.0	0.96	1.1	1.3	< 1.0	< 1.0	< 10.0	< 1.0	3.0	2.8	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	22.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	8.8	< 0.014	< 0.0014	< 0.0014	0.0002	79.0	12.0	< 0.68 UJ	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	4.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	8.1	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	20.0	< 0.014	< 0.0014	< 0.0014	9.0	70.0	1.6	0.73	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70	3.3	0.81	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	16.0	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.79	< 0.79	< 0.79	< 0.79	< 7.9	< 0.79	< 0.79	3.8	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	3.1	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	-	-	-	-	-	-	-	1.6	1.3 J	0.47 J	3.7	3.1	< 4.7	10.0	2.9	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	6.2	< 0.95	< 0.95	< 0.95
		2004 01 (Spring)	-	-	-	-	-	-	-	2.8	4.8	1.3 J	< 2.0	1.1 J	< 2.0	3.4	2.3	0.84 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	7.9 J	< 2.0	< 2.0	< 2.0 UJ
		2003 04 (Winter)	10.0	< 0.0019	< 0.0009	< 0.0009	0.33	-	10.0	0.82 J	0.63 J	< 2.0	< 2.0	0.96 J	< 2.0	6.2	1.9 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.8 J	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	21.0	< 4.0	17.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 29.0	< 29.0	< 29.0	< 29.0	174	< 29.0	130	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 140	< 29.0	< 29.0	< 29.0
		2003 01 (Spring)	-	-	-	-	-	-	-	< 2.0	1.2 J	0.59 J	1.1 J	190	< 2.0	2.9	2.3	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	12.0	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	-	-	-	-	-	-	-	2.0	3.6	0.85	1.4	2.9	< 2.9	6.6	4.1	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	0.43 J	16.0	< 0.57	< 0.57	< 0.57
		2002 03 (Fall)	12.0	< 0.0018	< 0.0009	< 0.0009	0.13	-	9.5	< 2.0	0.92 J	1.2 J	0.99 J	0.89 J	< 2.0	3.3	4.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5 J	< 2.0	< 2.0	< 2.0
	MG2-03-S	2007 01 (Spring)	13.0	< 0.013	< 0.0013	< 0.0013	0.0096	77.0	9.6	6.5	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	82.0	2.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	240	< 1.0	< 1.0	< 1.0
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.65	< 0.65	< 0.65	< 0.65	< 6.5	< 0.65	< 0.65	2.2	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	23.0	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	-	-	-	-	-	-	-	1.5	1.9	5.5	29.0	< 6.7	< 0.67	23.0	3.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	20.0	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	5.5	1.4	0.75	1.9	< 7.0	< 0.70	90.0	2.3	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	100	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	2.9	< 0.014	< 0.0014	< 0.0014	0.27	79.0	18.0	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	6.7	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	1.8	< 0.014	< 0.0014	< 0.0014	0.0001	80.0	18.0	< 0.68 UJ	1.6	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	0.96	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	5.9	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	8.2	< 0.014	< 0.0014	< 0.0014	2.2	77.0	12.0	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	1.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	6.0	< 0.68	< 0.68	< 0.68
		2004 04 (Winter)	-	-	-	-	-	-	-	6.0	< 0.78	1.7	6.5	< 7.8	< 0.78	< 0.78	1.4	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	10.0	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	-	-	-	-	-	-	-	2.0	0.99	0.40 J	2.6	1.6	< 2.4	5.7	2.5	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	10.0	< 0.49	< 0.49	< 0.49
		2004 01 (Spring)	-	-	-	-	-	-	-	2.1	3.3	0.78	1.5	1.2	< 1.0	2.7	1.6	0.46	< 0.20	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	0.33	3.8	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	12.0	< 0.0019	< 0.0009	< 0.0009	0.80	-	8.3	0.80 J	< 2.0	< 2.0	< 2.0	0.65 J	< 2.0	4.4	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.9 J	< 2.0	< 2.0	< 2.0

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV	PRBV
VADOSE	MG2-03-D	2002 04 (Winter)	< 1.7	< 3.4	< 1.7	< 3.4	< 1.7	15.0	< 1.7	1.3 J	< 8.5	< 1.7	< 1.7	< 1.7	< 8.5	< 3.4 UJ	< 3.4	< 1.7	< 1.7
		2002 03 (Fall)	< 3.6	< 7.2	< 3.6	< 7.2	< 3.6	< 3.6	< 3.6	3.1 J	< 18.0	< 3.6	< 3.6	< 3.6	< 18.0	< 18.0	< 18.0	< 3.6	< 3.6
	MG2-03-M	2007 01 (Spring)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.0	< 0.65	< 0.65	< 0.65	1.8	< 2.6	< 0.65	< 0.65	< 0.65
		2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	1.4	< 0.66	< 0.66 UJ	< 1.3	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.65	< 0.65	0.94	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	1.9	< 2.6	< 0.65	< 0.65 UJ	< 0.65
		2006 02 (Summer)	< 0.70	< 0.70	0.73	< 2.8	< 0.70	1.6	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	2.0	< 2.8	< 0.70	< 0.70 UJ	< 0.70
		2006 01 (Spring)	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	< 0.68	< 0.68	2.0	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	< 0.79	< 0.79	3.8	< 3.2	< 0.79	-	< 0.79	< 0.79	< 1.0	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	< 0.95	< 1.9	0.59 J	0.83 J	< 0.95	2.2	< 0.95	< 0.95	< 4.7	< 0.95	< 0.95	< 0.95	< 4.7	< 1.9	< 1.9	< 0.95	< 0.95
		2004 01 (Spring)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	1.4 J	< 2.0	0.60 J	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	1.7 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0 UJ	< 29.0	< 29.0	< 29.0	< 140	< 140	< 140	< 29.0	< 29.0
		2003 01 (Spring)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	0.71 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	5.0 J	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.57	< 1.1	< 0.57	< 1.1	< 0.57	1.9	0.29 J	0.69	< 2.9	< 0.57	< 0.57	< 0.57	0.94 J	< 1.1 UJ	< 1.1	< 0.57	< 0.57
		2002 03 (Fall)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	0.58 J	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-03-S	2007 01 (Spring)	< 1.0	< 1.0	< 1.0	< 4.2	< 1.0	2.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.4	< 4.2	< 1.0	< 1.0	< 1.0
		2006 04 (Winter)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65 UJ	< 1.3	< 0.65	< 0.65	< 0.65	1.2	< 2.6	< 0.65	< 0.65 UJ	< 0.65
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	0.94	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	3.0	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	3.5	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.6	< 2.8	< 0.70	< 0.70 UJ	< 0.70
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	1.8	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.68	< 0.68	1.2	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 04 (Winter)	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	-	< 0.78	< 0.78	< 1.0	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	< 0.49	< 0.98	0.44 J	0.36 J	< 0.49	1.5	< 0.49	< 0.49	< 2.4	< 0.49	< 0.49	< 0.49	1.4 J	< 0.98	< 0.98	< 0.49	< 0.49
		2004 01 (Spring)	0.096 J	0.39 J	0.81	0.24 J	< 0.20	1.4	< 0.20	0.38	< 1.0	< 0.20	< 0.20	< 0.20	0.55 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	1.2 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-03-S	2003 03 (Fall)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	38.0	< 4.0	11.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 21.0	< 21.0	< 21.0	< 21.0	99.0 J	< 21.0	229	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 110	< 21.0	< 21.0	< 21.0
		2003 01 (Spring)	-	-	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	240	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4 J	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	-	-	-	-	-	-	-	0.84	1.8	0.22	0.95	3.7	0.15 J	4.8	1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.12 J	1.5	< 0.20	< 0.20	< 0.20
		2002 03 (Fall)	2.6	< 0.0018	< 0.0008	< 0.0008	0.0044	-	19.0	0.42	0.39	0.15 J	0.91	2.6 J	< 1.0	5.0	1.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.4	< 0.20	< 0.20	< 0.20
	MG2-04-D	2007 01 (Spring)	23.0	< 0.013	< 0.0013	< 0.0013	23.0	53.0	0.83	8.4	31.0	24.0	41.0	260	< 2.7	460	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	3.8	44.0	< 2.7	< 2.7	< 2.7
		2006 04 (Winter)	-	-	-	-	-	-	-	12.0	37.0	40.0	78.0	< 86.0	< 8.6	660	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 35.0	< 8.6	< 8.6	< 8.6
		2006 03 (Fall)	-	-	-	-	-	-	-	15.0	55.0	65.0	110	960	< 5.4	800	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	8.3	< 22.0	< 5.4	< 5.4	< 5.4
		2006 02 (Summer)	-	-	-	-	-	-	-	10.0	44.0	51.0	79.0	770	< 4.1	530	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	57.0	< 4.1	< 4.1	< 4.1
		2005 02 (Summer)	27.0	< 0.014	< 0.0014	< 0.0014	19.0	53.0	0.78	16.0	54.0	62.0	100	4500	< 14.0	720	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 54.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	-	-	-	-	-	-	-	14.0	10.0	6.0	18.0	220	< 1.6	420	< 1.6	< 1.6	< 1.6	2.3	< 1.6	< 1.6	< 1.6	< 1.6	4.3	11.0	< 1.6	< 1.6	< 1.6
		2004 02 (Summer)	-	-	-	-	-	-	-	18.0	41.0	60.0	170	1900	< 7.8	640	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	9.9 J	< 7.8	< 7.8	< 7.8	< 7.8
		2003 04 (Winter)	23.0	< 0.0019	< 0.0009	0.0003 J	19.0	-	0.92	14.0	29.0	42.0	120	1800	< 2.0	450	< 2.0	< 2.0	< 2.0	2.5	< 2.0	< 2.0	< 2.0	< 2.0	9.5 J	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	26.0	87.0	47.0 J	122 J	< 20.0	< 4.0	473 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 42.0	76.0	77.0	226	141 J	< 42.0	551	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 210	< 42.0	< 42.0	< 42.0
		2003 01 (Spring)	-	-	-	-	-	-	-	16.0	67.0	97.0	260	5000	< 5.3	470	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	23.0 J	< 5.3	< 5.3	< 5.3	< 5.3
		2002 03 (Fall)	26.0	< 0.0018	0.0007 J	< 0.0009	26.0	-	1.4	33.0	480	480	1200	6400 J	< 18.0	800	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	95.0	< 18.0	< 18.0	< 18.0	< 18.0
	MG2-04-M	2007 01 (Spring)	22.0	< 0.014	< 0.0014	< 0.0014	21.0	56.0	1.5	8.7	6.7	2.8	7.3	< 14.0	< 1.4	350	< 1.4	< 1.4	< 1.4	2.4	< 1.4	< 1.4	< 1.4	< 1.4	4.3	170	< 1.4	< 1.4	< 1.4
		2006 04 (Winter)	-	-	-	-	-	-	-	11.0	12.0	< 8.6	13.0	< 86.0	< 8.6	510	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 34.0	< 8.6	< 8.6	< 8.6
		2006 03 (Fall)	-	-	-	-	-	-	-	14.0	20.0	14.0	40.0	85.0	< 5.4	660	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	6.7	37.0	< 5.4	< 5.4	< 5.4
		2006 02 (Summer)	-	-	-	-	-	-	-	12.0	24.0	7.4	13.0	< 36.0	< 3.6	590	< 3.6	< 3.6	< 3.6	3.7	< 3.6	< 3.6	< 3.6	< 3.6	10.0	180	< 3.6	< 3.6	< 3.6
		2006 01 (Spring)	22.0	< 0.014	< 0.0014	< 0.0014	20.0	57.0	0.79	11.0	13.0	< 6.8	7.4	< 68.0	< 6.8	550	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	< 6.8	< 6.8
		2005 02 (Summer)	26.0	< 0.014	< 0.0014	< 0.0014	18.0	55.0	0.77	14.0	24.0	7.9	17.0	65.0	< 4.0	640	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	8.6	< 16.0	< 4.0	< 4.0	< 4.0
		2005 01 (Spring)	20.0	< 0.014	< 0.0014	< 0.0014	24.0	55.0	0.86	17.0	10.0	< 5.6	12.0	< 56.0	< 5.6	480	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	< 5.6	< 5.6
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	5.4	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	-	-	-	-	-	-	-	17.0	19.0	14.0	49.0	720	< 6.6	610	< 6.6	< 6.6	< 6.6	3.0 J	< 6.6	< 6.6	< 6.6	< 6.6	< 6.6	21.0 J	< 6.6	< 6.6	< 6.6
		2004 01 (Spring)	-	-	-	-	-	-	-	22.0	17.0	9.2	41.0	< 4.8	< 9.7	400	< 1.9	< 1.9	< 1.9	2.7	< 1.9	< 1.9	< 1.9	< 1.9	3.7	6.7 J	< 1.9	< 1.9	< 1.9
		2003 04 (Winter)	23.0	< 0.0017	0.0003 J	< 0.0008	18.0	-	0.85	15.0	12.0	11.0	45.0	510	< 2.0	420	< 2.0	< 2.0	< 2.0	2.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	22.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	27.0 J	27.0 J	11.0	37.0	< 20.0	< 4.0	481	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0 J	< 4.0	< 4.0	< 4.0

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-03-S	2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	22.0	< 21.0	< 21.0	< 21.0 UJ	< 21.0	< 21.0	< 21.0	< 110	< 110	< 110	< 21.0	< 21.0
		2003 01 (Spring)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.20	< 0.40	< 0.20	0.15 J	< 0.20	0.77	< 0.20	0.12 J	< 1.0	< 0.20	< 0.20	< 0.20	0.26 J	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	0.095 J	< 0.40	0.27	0.36 J	< 0.20	0.77	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.40 J	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-04-D	2007 01 (Spring)	< 2.7	< 2.7	< 2.7	< 11.0	< 2.7	13.0	< 2.7	< 2.7	< 1.0	< 2.7	< 2.7	< 2.7	3.2	< 11.0	< 2.7	< 2.7	< 2.7
		2006 04 (Winter)	< 8.6	< 8.6	< 8.6	< 35.0	< 8.6	17.0	< 8.6	< 8.6	< 17.3	< 8.6	< 8.6	< 8.6	< 8.6	< 35.0	< 8.6	< 8.6 UJ	< 8.6
		2006 03 (Fall)	< 5.4	< 5.4	< 5.4	< 22.0	< 5.4	33.0	< 5.4	< 5.4	< 10.9	< 5.4	< 5.4	< 5.4	< 5.4	< 22.0	< 5.4	< 5.4 UJ	< 5.4
		2006 02 (Summer)	< 4.1	< 4.1	< 4.1	< 16.0	< 4.1	16.0	< 4.1	< 4.1	< 8.2	< 4.1	< 4.1	< 4.1	< 4.1	< 16.0	< 4.1	< 4.1 UJ	< 4.1
		2005 02 (Summer)	< 14.0	< 14.0	< 14.0	< 54.0	< 14.0	44.0	< 14.0	< 14.0	< 1.0	< 14.0	< 14.0	< 14.0	< 14.0	< 54.0 UJ	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	< 1.6	< 1.6	< 1.6	< 6.2	< 1.6	-	< 1.6	< 1.6	< 1.0	< 1.6	< 1.6	< 1.6	< 1.6	< 6.2	< 1.6	< 1.6	< 1.6
		2004 02 (Summer)	< 7.8	< 16.0	< 7.8	< 16.0	< 7.8	46.0	< 7.8	< 7.8	< 39.0	< 7.8	< 7.8	< 7.8	< 39.0	< 39.0	< 39.0	< 7.8	< 7.8
		2003 04 (Winter)	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	39.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	43.0	< 42.0	< 42.0	< 42.0 UJ	< 42.0	< 42.0	< 42.0	< 210	< 210	< 210	< 42.0	< 42.0
		2003 01 (Spring)	< 5.3	< 11.0	< 5.3	< 11.0	< 5.3	63.0	< 5.3	20.0	< 26.0	< 5.3	< 5.3	< 5.3	6.3 J	< 26.0	< 26.0	< 5.3	< 5.3
		2002 03 (Fall)	< 18.0	< 36.0	< 18.0	< 36.0	< 18.0	< 18.0	< 18.0	83.0	< 91.0	< 18.0	< 18.0	< 18.0	35.0 J	< 91.0	< 91.0	< 18.0	< 18.0
	MG2-04-M	2007 01 (Spring)	< 1.4	< 1.4	< 1.4	< 5.4	< 1.4	4.2	< 1.4	< 1.4	< 1.0	< 1.4	< 1.4	< 1.4	5.9	< 5.4	< 1.4	< 1.4	< 1.4
		2006 04 (Winter)	< 8.6	< 8.6	< 8.6	< 34.0	< 8.6	< 8.6	< 8.6	< 8.6	< 17.2	< 8.6	< 8.6	< 8.6	< 8.6	< 34.0	< 8.6	< 8.6 UJ	< 8.6
		2006 03 (Fall)	< 5.4	< 5.4	< 5.4	< 21.0	< 5.4	14.0	< 5.4	< 5.4	< 10.7	< 5.4	< 5.4	< 5.4	< 5.4	< 21.0	< 5.4	< 5.4 UJ	< 5.4
		2006 02 (Summer)	< 3.6	< 3.6	< 3.6	< 15.0	< 3.6	7.4	< 3.6	< 3.6	< 7.3	< 3.6	< 3.6	< 3.6	< 3.6	< 15.0	< 3.6	< 3.6 UJ	< 3.6
		2006 01 (Spring)	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	7.2	< 6.8	< 6.8	< 13.6	380	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	< 6.8	< 6.8
		2005 02 (Summer)	< 4.0	< 4.0	< 4.0	< 16.0	< 4.0	17.0	< 4.0	< 4.0	< 1.0	< 4.0	< 4.0	< 4.0	< 4.0	< 16.0 UJ	< 4.0	< 4.0	< 4.0
		2005 01 (Spring)	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	13.0	< 5.6	< 5.6	< 1.0	< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	< 5.6	< 5.6
		2004 04 (Winter)	< 0.68	< 0.68	0.76	< 2.7	< 0.68	-	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	< 6.6	< 13.0	< 6.6	< 13.0	< 6.6	30.0	< 6.6	< 6.6	< 33.0	< 6.6	< 6.6	< 6.6	< 33.0	< 33.0	< 33.0	< 6.6	< 6.6
		2004 01 (Spring)	< 1.9	< 3.9	< 1.9	< 3.9	< 1.9	17.0	< 1.9	< 1.9	< 9.7	< 1.9	< 1.9	< 1.9	< 9.7	< 3.9	< 3.9	< 1.9	< 1.9
		2003 04 (Winter)	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	28.0	1.2 J	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	5.1 J	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-04-M	2003 02 (Summer)	-	-	-	-	-	-	-	< 25.0	30.0	< 25.0	48.0	107 J	< 25.0	583	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 125	< 25.0	< 25.0	< 25.0
		2003 01 (Spring)	-	-	-	-	-	-	-	20.0	24.0	21.0	65.0	1300	< 7.3	460	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	7.8 J	< 7.3	< 7.3	< 7.3
		2002 04 (Winter)	-	-	-	-	-	-	-	29.0	12.0	16.0	64.0	670	< 6.7	490	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 34.0	< 6.7	< 6.7	< 6.7
		2002 03 (Fall)	21.0	< 0.0018	0.0005 J	< 0.0009	21.0	-	5.2	24.0	91.0	74.0	190	3900	< 18.0	610	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	29.0 J	< 18.0	< 18.0	< 18.0
	MG2-04-S	2007 01 (Spring)	9.0	< 0.013	< 0.0013	< 0.0013	0.0012	76.0	15.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	120	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.65	3.2	< 0.65	1.6	< 6.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	47.0	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	-	-	-	-	-	-	-	< 1.3	2.1	3.8	18.0	18.0	< 1.3	15.0	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	18.0	< 1.3	< 1.3	< 1.3
		2006 02 (Summer)	-	-	-	-	-	-	-	1.2	1.3	< 0.76	1.0	18.0	< 0.76	17.0	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	110	< 0.76	< 0.76	< 0.76
		2006 01 (Spring)	15.0	< 0.014	< 0.0014	< 0.0014	0.0052	77.0	7.5	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	2.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	4.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	4.1	< 0.014	< 0.0014	< 0.0014	0.0023	79.0	17.0	< 0.68	< 0.68	< 0.68	< 0.68	11.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	5.9	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	7.3	< 0.014	< 0.0014	< 0.0014	0.0020	82.0	11.0	< 0.72	< 0.72	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	8.2	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	-	-	-	-	-	-	-	< 26.0	41.0	56.0	100	4500	< 26.0	570	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 100	< 26.0	< 26.0	< 26.0
		2004 02 (Summer)	-	-	-	-	-	-	-	5.3	6.6	3.1	13.0	190	< 4.9	36.0	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	9.6	< 0.98	< 0.98	< 0.98
		2004 01 (Spring)	-	-	-	-	-	-	-	1.3	1.8	0.72	2.9	6.7	< 1.0	9.7	0.27	0.094 J	< 0.20	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	0.22	12.0	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	1.7	< 0.0018	< 0.0008	< 0.0008	0.16	-	20.0	< 2.0	2.1	1.1 J	5.0	350	< 2.0	23.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.9 J	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 40.0	< 40.0	< 40.0	< 40.0	883	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 25.0	< 25.0	< 25.0	< 25.0	120 J	< 25.0	26.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 125	< 25.0	< 25.0	< 25.0
		2003 01 (Spring)	-	-	-	-	-	-	-	1.1	< 1.5	< 1.0	< 2.6	4.3 J	< 5.1	6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	2.8 J	< 1.0	< 1.0	< 1.0 UJ
		2002 04 (Winter)	-	-	-	-	-	-	-	2.7	4.4	0.74 J	3.7	3.3	0.51 J	7.9	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	3.8	< 0.93	< 0.93	< 0.93
		2002 03 (Fall)	2.2	< 0.0018	< 0.0008	< 0.0008	0.17	-	20.0	< 2.0	0.80 J	< 2.0	< 2.0	18.0 J	< 2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.8 J	< 2.0	< 2.0	< 2.0
	MG2-05-D	2007 01 (Spring)	4.8	< 0.013	< 0.0013	< 0.0013	0.0017	77.0	18.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	66.0	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.64	2.3	6.3	35.0	< 6.4	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	4.7	< 0.64	< 0.64	< 0.64
		2006 03 (Fall)	-	-	-	-	-	-	-	< 0.67	1.7	5.5	30.0	< 6.7	< 0.67	8.9	0.75	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	11.0	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 0.67	0.89	< 0.67	0.70	< 6.7	< 0.67	15.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	240	< 0.67	< 0.67	< 0.67
		2006 01 (Spring)	14.0	< 0.014	< 0.0014	< 0.0014	0.070	80.0	6.4	0.75	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	2.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	6.6	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	11.0	< 0.016	< 0.0016	< 0.0016	0.012	78.0	11.0	< 0.78 UJ	< 0.78	< 0.78	< 0.78	< 7.8	< 0.78	< 0.78	0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	41.0	< 0.78	< 0.78	< 0.78
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.68	< 0.68	< 0.68	< 0.68	26.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	-	-	-	-	-	-	-	16.0	3.1	1.5 J	6.2	300	< 10.0	180	1.3 J	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	17.0	< 2.1	< 2.1	< 2.1
		2003 04 (Winter)	7.5	< 0.0019	< 0.0009	< 0.0009	0.089	-	14.0	< 2.0	2.3	0.72 J	3.2	110	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.8 J	< 2.0	< 2.0	< 2.0

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
VADOSE	MG2-04-M	2003 02 (Summer)	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0 UJ	< 25.0	< 25.0	< 25.0	< 125	< 125	< 125	< 25.0	< 25.0
		2003 01 (Spring)	< 7.3	< 15.0	< 7.3	< 15.0	< 7.3	30.0	< 7.3	< 7.3	< 37.0	< 7.3	< 7.3	< 7.3	< 37.0	< 37.0	< 37.0	< 7.3	< 7.3
		2002 04 (Winter)	< 6.7	< 13.0	< 6.7	< 13.0 UJ	< 6.7	24.0	< 6.7	< 6.7	< 34.0	< 6.7	< 6.7	< 6.7	< 34.0	< 34.0	< 34.0	< 6.7	< 6.7
		2002 03 (Fall)	< 18.0	< 36.0	< 18.0	< 36.0	< 18.0	< 18.0	< 18.0	8.1 J	< 90.0	< 18.0	< 18.0	< 18.0	< 90.0	< 90.0	< 90.0	< 18.0	< 18.0
	MG2-04-S	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	6.3	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	11.0	< 2.6	9.0	< 0.65 UJ	< 0.65
		2006 03 (Fall)	< 1.3	< 1.3	2.0	< 5.4	< 1.3	< 1.3	< 1.3	< 1.3	< 2.7	< 1.3	< 1.3	< 1.3	5.7	< 5.4	< 1.3	< 1.3 UJ	< 1.3
		2006 02 (Summer)	< 0.76	< 0.76	1.6	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	< 1.5	< 0.76	< 0.76	< 0.76	2.2	< 3.0	< 0.76	< 0.76 UJ	< 0.76
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.68	< 0.68	0.86	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	0.92	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	< 26.0	< 26.0	< 26.0	< 100	< 26.0	-	< 26.0	< 26.0	< 1.0	< 26.0	< 26.0	< 26.0	< 26.0	< 100	< 26.0	< 26.0	< 26.0
		2004 02 (Summer)	< 0.98	< 2.0	< 0.98	2.4	< 0.98	4.3	< 0.98	0.42 J	< 4.9	< 0.98	< 0.98	< 0.98	1.0 J	< 2.0	< 2.0	< 0.98	< 0.98
		2004 01 (Spring)	< 0.20	< 0.40	0.42	1.4	< 0.20	1.4	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	2.2	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	2.9	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	3.7 J	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0 UJ	< 25.0	< 25.0	< 25.0	< 125	< 125	< 125	< 25.0	< 25.0
		2003 01 (Spring)	< 1.0	< 2.0 UJ	< 1.0	< 2.0	< 1.0	0.53 J	< 1.0	< 1.0	< 5.1	< 1.0	< 1.0	< 1.0	< 5.1	< 2.0	< 2.0	< 1.0	< 1.0
		2002 04 (Winter)	< 0.93	< 1.9	< 0.93	< 1.9	< 0.93	1.5 J	< 0.93	0.32 J	< 4.6	< 0.93	< 0.93	< 0.93	< 4.6	< 1.9	< 1.9	< 0.93	< 0.93
		2002 03 (Fall)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-05-D	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	1.7	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64	< 1.3	< 0.64	< 0.64	< 0.64	0.75	< 2.6	< 0.64	< 0.64 UJ	< 0.64
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	2.0	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	2.7	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78	< 1.0	< 0.78	< 0.78	< 0.78	2.5	< 3.1 UJ	< 0.78 UJ	< 0.78	< 0.78
		2004 04 (Winter)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	-	5.6	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	< 2.1	< 4.2	< 2.1	< 4.2	< 2.1	2.6 J	< 2.1	< 2.1	< 10.0	< 2.1	< 2.1	< 2.1	5.0 J	< 4.2	< 4.2	< 2.1	< 2.1
		2003 04 (Winter)	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	0.77 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	3.3 J	< 10.0	< 10.0	< 2.0	< 2.0

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs			
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane
	Well No.	Event	Units: %V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-05-D	2003 03 (Fall)	-	-	-	-	-	-	-	< 40.0	< 40.0	< 40.0	< 40.0	510	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 22.0	< 22.0	< 22.0	< 22.0	447	< 22.0	56.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	-	-	-	-	-	-	-	4.3	< 2.0	< 2.0	< 2.0	140	< 2.0	29.0	0.61 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.4 J	< 2.0	< 2.0	< 2.0
		2002 03 (Fall)	11.0	< 0.0018	< 0.0009	< 0.0009	1.2	-	11.0	36.0	< 7.2	2.6 J	5.0 J	1100	< 7.2	830	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 36.0	< 7.2	< 7.2	< 7.2
	MG2-05-S	2007 01 (Spring)	1.2	< 0.013	< 0.0013	< 0.0013	0.0008	78.0	21.0	< 0.67	1.1	1.9	4.4	94.0	< 0.67	38.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	70.0	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	-	-	-	-	-	-	-	< 0.64	< 0.64	< 0.64	< 0.64	< 6.4	< 0.64	< 0.64	0.80	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	8.1	< 0.64	< 0.64	< 0.64
		2006 03 (Fall)	-	-	-	-	-	-	-	< 0.67	0.88	2.3	11.0	130	< 0.67	2.5	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	3.5	< 0.67	< 0.67	< 0.67
		2006 02 (Summer)	-	-	-	-	-	-	-	< 0.68	< 0.68	0.81	1.7	130	< 0.68	14.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	230	< 0.68	< 0.68	< 0.68
		2006 01 (Spring)	1.6	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	20.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	9.1	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	2.8	< 0.014	< 0.0014	< 0.0014	0.0002	79.0	18.0	< 0.68 UJ	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	11.0	1.0	< 0.68	1.2	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	3.9	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	2.2	< 0.014	< 0.0014	< 0.0014	0.0002	78.0	19.0	< 0.72	< 0.72	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	18.0	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.74	< 0.74	< 0.74	< 0.74	< 7.4	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	6.8	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	-	-	-	-	-	-	-	3.4	0.61 J	< 2.0	< 2.0	380	< 2.0	16.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5 J	< 2.0	< 2.0	< 2.0
		2004 01 (Spring)	-	-	-	-	-	-	-	0.61	0.67	0.14 J	0.92	7.5	< 1.0	1.3	0.14 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	9.0	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	1.5	< 0.0018	< 0.0008	< 0.0008	0.0075	-	20.0	< 2.0	1.1 J	< 2.0	< 2.0	80.0	< 2.0	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4 J	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 40.0	< 40.0	< 40.0	< 40.0	839	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 24.0	< 24.0	< 24.0	55.0	398	< 24.0	126	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 120	< 24.0	< 24.0	< 24.0
		2003 01 (Spring)	-	-	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	170	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.7 J	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	-	-	-	-	-	-	-	0.36 J	1.8	0.38 J	2.1	50.0	< 2.2	5.8	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	3.6	< 0.43	< 0.43	< 0.43
		2002 03 (Fall)	0.19	< 0.0018	< 0.0008	< 0.0008	0.0004	-	35.0	< 3.5	1.5 J	1.9 J	6.2	1100	< 3.5	6.8	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	6.3 J	< 3.5	< 3.5	< 3.5

Table 8.1-12

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 4A - IR Site 2

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																
			Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event	Units: PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	MG2-05-D	2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0 UJ	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	0.67 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 03 (Fall)	< 7.2	< 14.0	< 7.2	< 14.0	< 7.2	5.8 J	< 7.2	< 7.2	< 36.0	< 7.2	< 7.2	< 7.2	< 36.0	< 36.0	< 36.0	< 7.2	< 7.2
	MG2-05-S	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	1.5	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	3.8	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64	< 1.3	< 0.64	< 0.64	< 0.64	1.6	< 2.6	< 0.64	< 0.64 UJ	< 0.64
		2006 03 (Fall)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.1	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2006 02 (Summer)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	4.0	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	0.93	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	-	< 0.74	< 0.74	< 1.0	< 0.74	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	0.71 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2004 01 (Spring)	0.13 J	< 0.40	0.078 J	0.83	< 0.20	0.35 J	0.20	0.28	< 1.0	< 0.20	< 0.20	< 0.20	2.6	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0 UJ	< 24.0	< 24.0	< 24.0	< 120	< 120	< 120	< 24.0	< 24.0
		2003 01 (Spring)	< 2.0	< 4.0	< 2.0	1.4 J	< 2.0	0.54 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.43	< 0.86	0.46	< 0.86	< 0.43	0.64 J	0.47	< 0.43	< 2.2	< 0.43	< 0.43	< 0.43	0.60 J	< 0.86	< 0.86	< 0.43	< 0.43
		2002 03 (Fall)	< 3.5	< 7.0	< 3.5	< 7.0	< 3.5	< 3.5	< 3.5	< 3.5	< 18.0	< 3.5	< 3.5	< 3.5	< 18.0	< 18.0	< 18.0	< 3.5	< 3.5

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	5	20	6.3 J	M020-A	15 Mar 2007	12.0 J	M024-A	2006 01 (Spring)
Benzene (UG/L)	8	20	37.0	M037-A	12 Oct 2006	47.0 J	M037-A	2003 04 (Winter)
TPH-Diesel (UG/L)	11	19	860	M039-A	19 Mar 2007	8900	M039-A	2004 04 (Winter)
Bromobenzene (UG/L)	1	20	0.10 J	M039-A	19 Mar 2007	0.20 J	M039-A	2006 01 (Spring)
TPH-Jet Fuel (UG/L)	6	19	610	M039-A	19 Mar 2007	2800	M039-A	2005 01 (Spring)
Toluene (UG/L)	8	20	0.60	M039-A	19 Mar 2007	1.6	M039-A	2003 04 (Winter)
Trichloroethene (UG/L)	1	20	2.2	M016-A	14 Mar 2007	1.7	M024-A	2002 04 (Winter)
Ethylbenzene (UG/L)	5	20	0.60	M039-A	19 Mar 2007	7.0	M039-A	2005 01 (Spring)
TPH-Motor Oil (UG/L)	3	19	660	M038-A	13 Oct 2006	8800	M039-A	2004 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	8	20	1.0	M024-E	20 Mar 2007	1.2	M011-A	2002 03 (Fall)
M,P-xylenes (UG/L)	5	20	1.0	M039-A	19 Mar 2007	9.4	M039-A	2005 01 (Spring)
TPH-Gasoline (UG/L)	5	19	560	M024-A	11 Oct 2006	740	M024-A	2002 04 (Winter)
Bromoform (UG/L)	5	20	0.20 J	M024-A	20 Mar 2007	0.10 J	M021-A	2004 04 (Winter)
O-xylene (UG/L)	5	20	0.90	M039-A	12 Oct 2006	5.5	M039-A	2005 01 (Spring)
trans-1,2-Dichloroethene (UG/L)	1	20	0.20 J	M024-E	20 Mar 2007	--	NA	NA
1,1-Dichloroethane (UG/L)	1	20	0.40 J	M016-A	14 Mar 2007	0.70	M016-A	2006 01 (Spring)
Naphthalene (UG/L)	4	20	40.0	M039-A	19 Mar 2007	290	M039-A	2004 01 (Spring)
1,2-Dichloroethane (UG/L)	2	20	0.60 J	M011-A	10 Oct 2006	1.0	M011-A	2005 02 (Summer)
Carbon Disulfide (UG/L)	7	20	1.5	M023-A	15 Mar 2007	25.0	M021-A	2002 03 (Fall)
Methyl tert-butyl ether (MTBE) (UG/L)	1	20	0.050 J	M039-A	19 Mar 2007	0.52 J	M037-A	2003 04 (Winter)
Chlorobenzene (UG/L)	9	20	230	M024-A	20 Mar 2007	410 J	M024-A	2005 01 (Spring)
1,2-Dichlorobenzene (UG/L)	6	20	0.70	M036-A	19 Mar 2007	1.0	M039-A	2006 01 (Spring)
Chloroethane (UG/L)	4	20	9.6 J	M036-A	19 Mar 2007	14.0 J	M036-A	2003 01 (Spring)
Vinyl Chloride (UG/L)	2	20	0.40 J	M024-E	13 Oct 2006	1.0	442-MW1	2006 01 (Spring)
1,3-Dichlorobenzene (UG/L)	5	20	2.7	M024-A	11 Oct 2006	2.9	M024-A	2004 01 (Spring)
1,4-Dichlorobenzene (UG/L)	9	20	13.0	M038-A	19 Mar 2007	24.0	M024-A	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
2-Chlorotoluene (UG/L)	4	20	0.70	M038-A	19 Mar 2007	1.8	M038-A	2002 04 (Winter)
Isopropylbenzene (UG/L)	5	20	2.5	M024-A	11 Oct 2006	5.0	M039-A	2005 01 (Spring)
Isopropyl Ether (UG/L)	6	20	0.90	M039-A	19 Mar 2007	2.3 J	M039-A	2003 01 (Spring)
Methylene Chloride (UG/L)	3	20	0.50 J	M024-A	20 Mar 2007	0.74 J	M021-A	2003 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	2	20	1.2 J	442-MW1	10 Oct 2006	14.0 J	M012-A	2004 01 (Spring)
n-Butylbenzene (UG/L)	4	20	1.9	M024-A	11 Oct 2006	1.8	M024-A	2003 03 (Fall)
n-Propylbenzene (UG/L)	5	20	1.6	M024-A	11 Oct 2006	5.8	M039-A	2002 04 (Winter)
p-Isopropyltoluene (UG/L)	1	20	0.30 J	M039-A	19 Mar 2007	0.80 J	M039-A	2005 02 (Summer)
sec-Butylbenzene (UG/L)	5	20	2.3	M024-A	11 Oct 2006	2.2	M024-A	2003 03 (Fall)
Tert-butyl alcohol (UG/L)	8	20	22.0	M039-A	19 Mar 2007	47.0 J	M038-A	2003 01 (Spring)
Tert-butylbenzene (UG/L)	5	20	0.90	M036-A	13 Oct 2006	1.6	M024-A	2002 04 (Winter)
Tert-butyl ethyl ether (UG/L)	1	20	0.080 J	M037-A	12 Oct 2006	1.8 J	M037-A	2003 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	4	20	0.70	M039-A	19 Mar 2007	5.0	M039-A	2005 02 (Summer)
1,3,5-Trimethylbenzene (UG/L)	2	20	0.40 J	M039-A	19 Mar 2007	2.2	M039-A	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	13	0.50 J	M012-B	13 Mar 2007	1.9 J	M013-C	2004 02 (Summer)
Trichloroethene (UG/L)	1	13	4.0	M016-B	14 Mar 2007	--	NA	NA
cis-1,2-Dichloroethene (UG/L)	1	13	0.70	M016-B	14 Mar 2007	--	NA	NA
Bromoform (UG/L)	5	13	0.20 J	M023-B	14 Mar 2007	--	NA	NA
Carbon Disulfide (UG/L)	5	13	0.30 J	M038-B	20 Mar 2007	0.90	M020-B	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
Acenaphthene (UG/L)	5	19	11.0 J	M039-A	19 Mar 2007	19.0	M039-A	2002 04 (Winter)
Fluorene (UG/L)	2	19	4.4 J	M039-A	19 Mar 2007	8.0 J	M039-A	2002 04 (Winter)
Naphthalene (UG/L)	3	19	10.0 J	M039-A	19 Mar 2007	150	M039-A	2004 02 (Summer)
bis(2-Ethylhexyl)phthalate (UG/L)	1	19	18.0	M023-E	15 Mar 2007	320	M023-A	2004 01 (Spring)
Dibenzofuran (UG/L)	2	19	5.0 J	M039-A	19 Mar 2007	7.5 J	M039-A	2002 04 (Winter)
1,3-Dichlorobenzene (UG/L)	1	19	1.6 J	M024-A	20 Mar 2007	2.0 J	M024-A	2005 02 (Summer)
1,4-Dichlorobenzene (UG/L)	8	19	9.0 J	M036-A	19 Mar 2007	18.0	M038-A	2004 04 (Winter)
2-Methylnaphthalene (UG/L)	1	19	3.3 J	M037-A	20 Mar 2007	20.0	M039-A	2004 02 (Summer)
n-Nitrosodiphenylamine (UG/L)	3	19	2.0 J	M024-A	20 Mar 2007	6.4 J	M024-A	2003 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (Second Water-Bearing Zone)								
Semivolatile Organic Compounds								
4-Methylphenol (p-Cresol) (UG/L)	1	13	2.1 J	M038-B	20 Mar 2007	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	5	19	12.0	M036-A	19 Mar 2007	30.0 J	M024-A	2004 04 (Winter)
Anthracene (UG/L)	6	19	0.71	M037-A	20 Mar 2007	0.89	M037-A	2003 02 (Summer)
Benzo(a)anthracene (UG/L)	6	19	0.070 J	M038-A	20 Mar 2007	0.15	M037-A	2002 04 (Winter)
Benzo(a)pyrene (UG/L)	2	19	0.060 J	M038-A	20 Mar 2007	0.12 J	M036-A	2003 01 (Spring)
Benzo(b)fluoranthene (UG/L)	3	19	0.070 J	M038-A	20 Mar 2007	0.18 J	M037-A	2003 01 (Spring)
Benzo(g,h,i)perylene (UG/L)	2	19	0.13 J	M038-A	20 Mar 2007	--	NA	NA
Benzo(k)fluoranthene (UG/L)	4	19	0.030 J	M038-A	20 Mar 2007	0.11 J	M036-A	2002 03 (Fall)
Chrysene (UG/L)	3	19	0.070 J	M038-A	20 Mar 2007	0.14	M037-A	2002 04 (Winter)
Dibenz(a,h)anthracene (UG/L)	2	19	0.050 J	M038-A	20 Mar 2007	--	NA	NA
Fluoranthene (UG/L)	9	19	2.2 J	M024-A	20 Mar 2007	1.9	M037-A	2003 04 (Winter)
Fluorene (UG/L)	5	19	5.2	M039-A	19 Mar 2007	9.2	M039-A	2005 01 (Spring)
Indeno(1,2,3-c,d)pyrene (UG/L)	1	19	0.030 J	M038-A	20 Mar 2007	0.15 J	M037-A	2003 01 (Spring)
Naphthalene (UG/L)	2	19	15.0	M039-A	19 Mar 2007	180	M039-A	2005 01 (Spring)
Phenanthrene (UG/L)	8	19	2.4 J	M037-A	20 Mar 2007	4.5	M039-A	2005 01 (Spring)
Pyrene (UG/L)	10	19	0.78	M037-A	20 Mar 2007	1.1	M037-A	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (Second Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Anthracene (UG/L)	1	13	0.020 J	M038-B	20 Mar 2007	--	NA	NA
Phenanthrene (UG/L)	3	13	0.010 J	M016-B	14 Mar 2007	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Organochlorine Pesticides								
Aldrin (UG/L)	4	19	0.10 J	M039-A	12 Oct 2006	0.040 J	M021-A	2005 02 (Summer)
alpha-BHC (UG/L)	6	19	0.10 J	M039-A	12 Oct 2006	0.032 J	M024-A	2004 01 (Spring)
beta-BHC (UG/L)	9	19	0.040 J	M016-A	14 Mar 2007	0.25 J	M039-A	2004 01 (Spring)
delta-BHC (UG/L)	5	19	0.030 J	M037-A	20 Mar 2007	0.12	M036-A	2004 01 (Spring)
gamma-BHC (UG/L)	3	19	0.060 J	M039-A	19 Mar 2007	0.020 J	M023-A	2006 01 (Spring)
alpha-Chlordane (UG/L)	3	19	0.030 J	M039-A	19 Mar 2007	0.040 J	M039-A	2004 02 (Summer)
gamma-Chlordane (UG/L)	9	19	24.0	M022-A	12 Oct 2006	0.091	M038-A	2004 01 (Spring)
4,4'-DDD (UG/L)	1	19	0.020 J	M037-A	20 Mar 2007	0.23 J	M037-A	2004 01 (Spring)
4,4'-DDE (UG/L)	6	19	0.10	M016-A	11 Oct 2006	0.030 J	M039-A	2006 01 (Spring)
4,4'-DDT (UG/L)	4	19	0.10 J	M039-A	12 Oct 2006	0.060 J	M038-A	2004 02 (Summer)
Dieldrin (UG/L)	7	19	4.5	M018-A	12 Oct 2006	8.5	M018-A	2004 01 (Spring)
Endosulfan I (UG/L)	8	19	0.030 J	M037-A	20 Mar 2007	0.36	M039-A	2004 01 (Spring)
Endosulfan Sulfate (UG/L)	2	19	0.030 J	M018-A	14 Mar 2007	0.030 J	M038-A	2005 01 (Spring)
Endrin (UG/L)	4	19	0.20 J	M039-A	19 Mar 2007	0.22 J	M039-A	2004 01 (Spring)
Endrin aldehyde (UG/L)	4	19	0.040 J	M038-A	13 Oct 2006	0.080 J	M018-A	2004 01 (Spring)
Endrin ketone (UG/L)	4	19	0.040 J	M037-A	12 Oct 2006	0.040 J	M011-A	2005 02 (Summer)
Heptachlor (UG/L)	5	19	0.060 J	M039-A	12 Oct 2006	0.090 J	M038-A	2005 01 (Spring)
Heptachlor epoxide (UG/L)	7	19	0.060	M037-A	12 Oct 2006	0.20	M039-A	2004 01 (Spring)
Methoxychlor (UG/L)	1	19	0.10 J	M037-A	12 Oct 2006	0.28 J	M037-A	2004 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	11	24	20.0	M023-A	15 Mar 2007	67.1	M023-A	2004 01 (Spring)
Arsenic (UG/L)	24	24	37.0	M018-E	12 Oct 2006	58.3 J	M023-E	2003 03 (Fall)
Barium (UG/L)	24	24	1900	M037-E	12 Oct 2006	1920	M038-E	2003 02 (Summer)
Beryllium (UG/L)	8	24	3.0	M037-E	12 Mar 2007	1.5 J	M021-E	2002 02 (Summer)
Cadmium (UG/L)	17	24	2.7 J	M037-E	12 Mar 2007	8.6	M020-A	2003 02 (Summer)
Chromium (UG/L)	9	24	8.2 J	M038-A	13 Oct 2006	23.0	M016-E	2002 02 (Summer)
Cobalt (UG/L)	23	24	16.0	M022-E	15 Mar 2007	43.7 J	M020-E	2003 04 (Winter)
Copper (UG/L)	20	24	8.8 J	M020-A	11 Oct 2006	31.0	M019-A	2005 01 (Spring)
Lead (UG/L)	7	24	5.1	M023-A	11 Oct 2006	3.6	M023-A	2005 02 (Summer)
Manganese (UG/L)	24	24	15000	M018-E	14 Mar 2007	16000	M018-E	2006 01 (Spring)
Mercury (UG/L)	4	24	0.13 J	M020-E	15 Mar 2007	0.32 J	442-MW1	2004 01 (Spring)
Molybdenum (UG/L)	19	24	9.1 J	M012-A	10 Oct 2006	49.8 J	M019-A	2004 01 (Spring)
Nickel (UG/L)	24	24	22.0	M038-A	13 Oct 2006	40.0	M022-E	2002 04 (Winter)
Selenium (UG/L)	16	24	1.2 J	M023-A	15 Mar 2007	180	M037-E	2005 02 (Summer)
Silver (UG/L)	14	24	4.1 J	M020-E	11 Oct 2006	5.0 J	M018-A	2002 04 (Winter)
Thallium (UG/L)	7	24	1.4 J	M037-E	12 Mar 2007	15.0	M023-E	2006 01 (Spring)
Vanadium (UG/L)	19	24	37.0	M013-A	10 Oct 2006	52.0	M013-A	2003 01 (Spring)
Zinc (UG/L)	23	24	1000	M023-A	11 Oct 2006	310 J	M039-A	2002 04 (Winter)
Aluminum (UG/L)	8	24	130	442-MW1	15 Mar 2007	1100	M018-E	2002 02 (Summer)
Iron (UG/L)	22	24	42000	M020-E	15 Mar 2007	170000	M037-E	2004 04 (Winter)
Calcium (MG/L)	24	24	720	M018-E	14 Mar 2007	793	M018-E	2003 02 (Summer)
Magnesium (MG/L)	24	24	2000	M019-E	14 Mar 2007	1900	M018-E	2004 02 (Summer)
Potassium (MG/L)	24	24	400	M018-E	14 Mar 2007	880	M037-E	2004 04 (Winter)
Sodium (MG/L)	24	24	14000 J	M019-E	14 Mar 2007	15000	M018-E	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	2	13	2.0	M038-B	20 Mar 2007	10.8 J	M013-C	2003 02 (Summer)
Arsenic (UG/L)	12	13	8.1	M038-B	20 Mar 2007	15.0	M014-B	2002 04 (Winter)
Barium (UG/L)	13	13	880	M037-B	13 Oct 2006	930	M037-B	2003 02 (Summer)
Beryllium (UG/L)	6	13	3.0	M010-B	13 Mar 2007	0.80 J	M016-B	2006 01 (Spring)
Cadmium (UG/L)	6	13	1.9 J	M016-B	14 Mar 2007	6.2	M038-B	2004 02 (Summer)
Chromium (UG/L)	4	13	4.0 J	M038-B	20 Mar 2007	12.0	M023-B	2002 02 (Summer)
Cobalt (UG/L)	13	13	13.0	M016-B	14 Mar 2007	29.9 J	M039-B	2003 02 (Summer)
Copper (UG/L)	9	13	170	M016-B	14 Mar 2007	31.0	M014-B	2002 04 (Winter)
Lead (UG/L)	2	13	0.49 J	M023-C	15 Mar 2007	0.57 J	M014-B	2005 02 (Summer)
Manganese (UG/L)	13	13	17000	M016-B	14 Mar 2007	19000	M016-B	2006 01 (Spring)
Mercury (UG/L)	4	13	0.48	M012-B	13 Mar 2007	0.15 J	M010-B	2002 04 (Winter)
Molybdenum (UG/L)	7	13	4.9 J	M016-B	14 Mar 2007	36.3 J	M016-B	2003 04 (Winter)
Nickel (UG/L)	10	13	15.0 J	M012-B	13 Mar 2007	24.0	M012-B	2004 02 (Summer)
Selenium (UG/L)	7	13	2.8 J	M012-B	13 Mar 2007	110	M039-B	2005 02 (Summer)
Silver (UG/L)	10	13	5.6 J	M016-B	11 Oct 2006	20.1 J	M039-B	2003 02 (Summer)
Thallium (UG/L)	6	13	1.0 J	M012-B	13 Mar 2007	3.5 J	M037-B	2006 01 (Spring)
Vanadium (UG/L)	10	13	8.9 J	M036-B	19 Mar 2007	9.7 J	M036-B	2002 02 (Summer)
Zinc (UG/L)	12	13	47.0	M039-B	19 Mar 2007	120	M039-B	2005 02 (Summer)
Aluminum (UG/L)	6	13	260	M023-C	15 Mar 2007	420	M020-B	2002 02 (Summer)
Iron (UG/L)	13	13	9600	M036-B	19 Mar 2007	12100	M036-B	2003 02 (Summer)
Calcium (MG/L)	13	13	1000 J	M039-B	19 Mar 2007	1100	M038-B	2006 01 (Spring)
Magnesium (MG/L)	13	13	1600	M039-B	19 Mar 2007	1780	M038-B	2003 02 (Summer)
Potassium (MG/L)	13	13	180	M038-B	20 Mar 2007	233 J	M038-B	2003 02 (Summer)
Sodium (MG/L)	13	13	7500	M016-B	14 Mar 2007	8700	M012-B	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	1900	M037-A	20 Mar 2007	2500	M038-A	2004 04 (Winter)
Sulfide (MG/L)	3	7	0.20	M036-A	19 Mar 2007	3.1	M036-A	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	7	7	1900	M037-A	20 Mar 2007	2500	M038-A	2004 04 (Winter)
Total Dissolved Solids (MG/L)	6	6	7870	M036-A	19 Mar 2007	29000	M038-E	2004 04 (Winter)
Nitrate (MG/L)	3	7	0.11	M038-A	22 Mar 2007	3.9	M037-E	2003 04 (Winter)
Chloride (MG/L)	7	7	3100	M036-A	19 Mar 2007	18000	M037-E	2002 02 (Summer)
Sulfate (as SO4) (MG/L)	7	7	480	M016-A	14 Mar 2007	1800	M016-A	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	2100	M036-B	19 Mar 2007	2100	M036-B	2005 02 (Summer)
Alkalinity, bicarbonate (MG/L)	7	7	2100	M036-B	19 Mar 2007	2100	M036-B	2005 02 (Summer)
Total Dissolved Solids (MG/L)	6	6	27500	M016-B	14 Mar 2007	48300000	M016-B	2005 02 (Summer)
Nitrate (MG/L)	1	7	0.070 J	M010-B	13 Mar 2007	2.8 J	M037-B	2003 02 (Summer)
Chloride (MG/L)	7	7	15000	M039-B	19 Mar 2007	20500	M016-B	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	5	7	2200	M016-B	14 Mar 2007	2270	M016-B	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (First Water-Bearing Zone)								
Radionuclides								
Alpha (900.0) (PCI/L)	2	18	2.6 J	M012-A	10 Oct 2006	138 J	M019-E	2005 02 (Summer)
Beta (900.0) (PCI/L)	18	18	512	M020-E	15 Mar 2007	3430	M018-E	2002 02 (Summer)
Bismuth 214 (901.1) (PCI/L)	4	18	24.1	M017-A	14 Mar 2007	211	M019-A	2003 04 (Winter)
Lead 214 (901.1) (PCI/L)	4	17	26.0	M017-A	14 Mar 2007	44.8	M024-E	2003 04 (Winter)
Potassium 40 (901.1) (PCI/L)	14	18	314	M018-E	14 Mar 2007	1220	M023-A	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	16	18	6.8	M022-E	15 Mar 2007	20.9 J	M039-A	2005 02 (Summer)
Radium (Sum) (PCI/L)	12	18	9.8	M022-E	12 Oct 2006	413	M016-E	2003 04 (Winter)
Ra-228 (904.0) (PCI/L)	12	18	9.8	M022-E	12 Oct 2006	27.8	M022-E	2006 01 (Spring)
Strontium (Sr) Total (905.0) (PCI/L)	1	18	0.49 J	M014-A	10 Oct 2006	4.1	M011-A	2003 02 (Summer)
Tritium (906.0) (PCI/L)	2	18	18400	M014-A	09 Mar 2007	3810	M016-E	2004 01 (Spring)
Uranium 233/234 (908.0) (PCI/L)	12	18	3.2	M017-A	10 Oct 2006	3.0	M017-A	2006 01 (Spring)
Uranium 235/236 (U02RC) (PCI/L)	2	18	0.25	M022-E	15 Mar 2007	0.19 J	M022-E	2006 01 (Spring)
Uranium 238 (908.0) (PCI/L)	9	18	3.0	M017-A	10 Oct 2006	2.4	M017-A	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 8.1-13

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 4A - IR Site 2

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 4A - IR Site 2 (Second Water-Bearing Zone)								
Radionuclides								
Alpha (900.0) (PCI/L)	1	13	85.2	M039-B	12 Oct 2006	55.2 J	M016-B	2005 02 (Summer)
Beta (900.0) (PCI/L)	13	13	263 J	M039-B	19 Mar 2007	527 J	M013-C	2003 02 (Summer)
Bismuth 214 (901.1) (PCI/L)	3	13	25.3	M021-C	11 Oct 2006	200	M014-B	2003 04 (Winter)
Lead 214 (901.1) (PCI/L)	1	13	28.9	M016-B	14 Mar 2007	40.5	M023-C	2003 04 (Winter)
Potassium 40 (901.1) (PCI/L)	12	13	220	M038-B	20 Mar 2007	623	M020-B	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	13	13	3.2	M012-B	13 Mar 2007	2.7	M013-C	2003 02 (Summer)
Radium (Sum) (PCI/L)	10	13	31.9	M038-B	12 Oct 2006	5.9	M039-B	2004 04 (Winter)
Ra-228 (904.0) (PCI/L)	10	13	31.9	M038-B	12 Oct 2006	5.9	M039-B	2004 04 (Winter)
Uranium 233/234 (908.0) (PCI/L)	9	13	12.1	M016-B	14 Mar 2007	11.5	M016-B	2006 01 (Spring)
Uranium 235/236 (U02RC) (PCI/L)	7	13	0.65	M016-B	14 Mar 2007	0.92	M039-B	2006 01 (Spring)
Uranium 238 (908.0) (PCI/L)	7	13	9.1	M016-B	14 Mar 2007	9.3	M016-B	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

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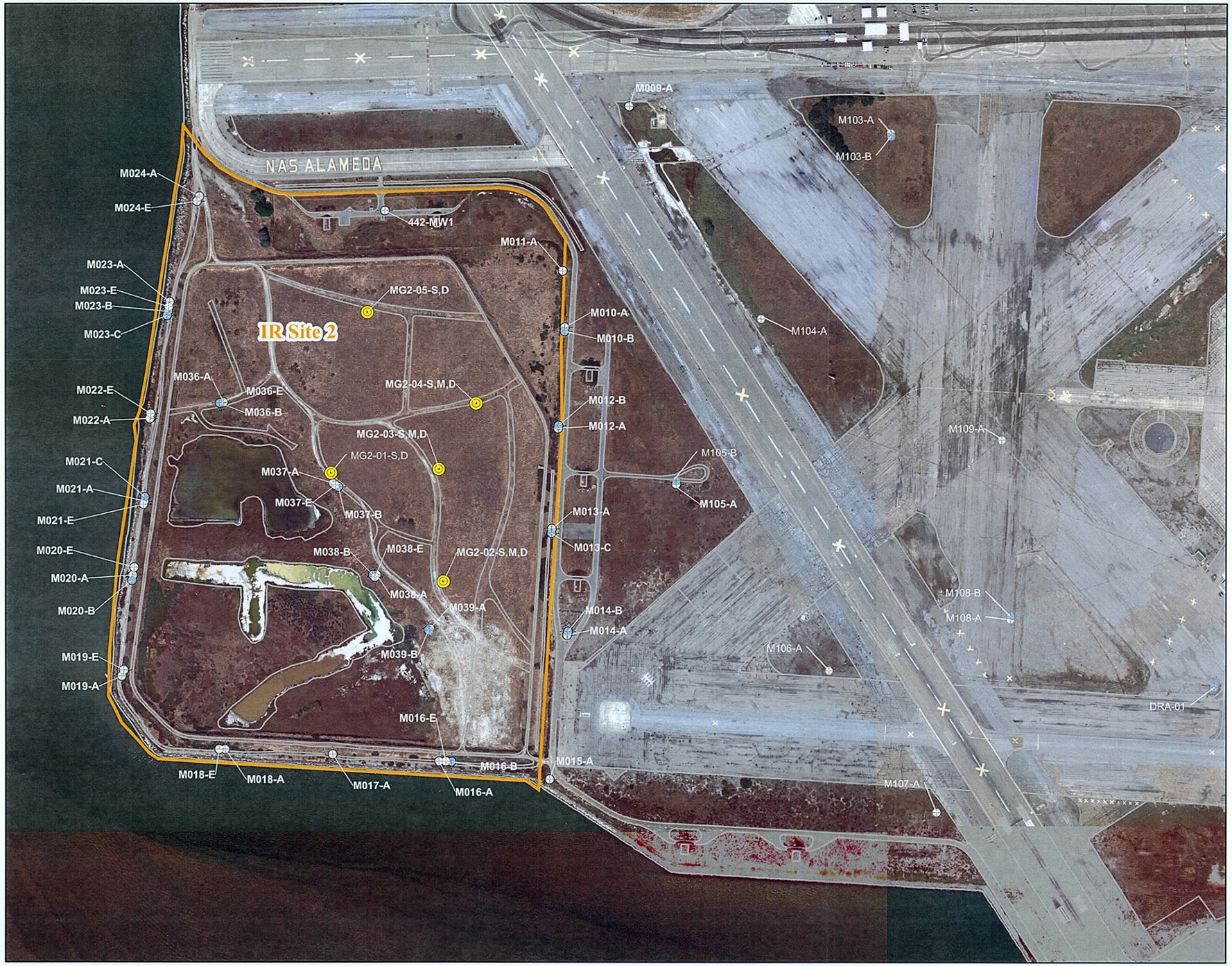
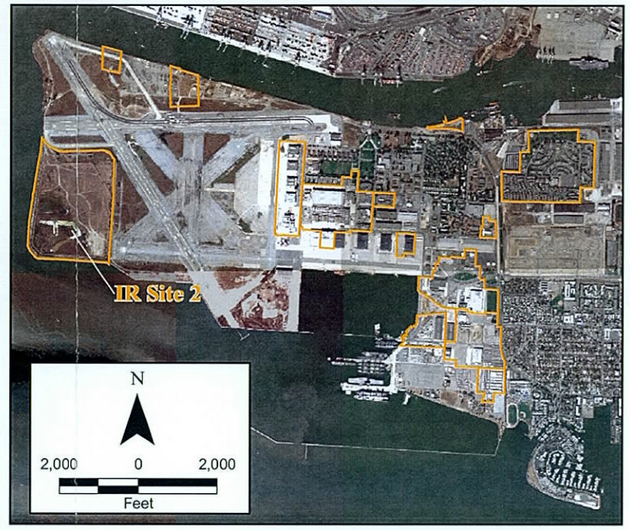
FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008





Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility

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Feet

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Innovative Technical Solutions, Inc.

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FIGURE 8.1-1
OPERABLE UNIT 4A - IR SITE 2
SITE AND WELL LOCATION MAP

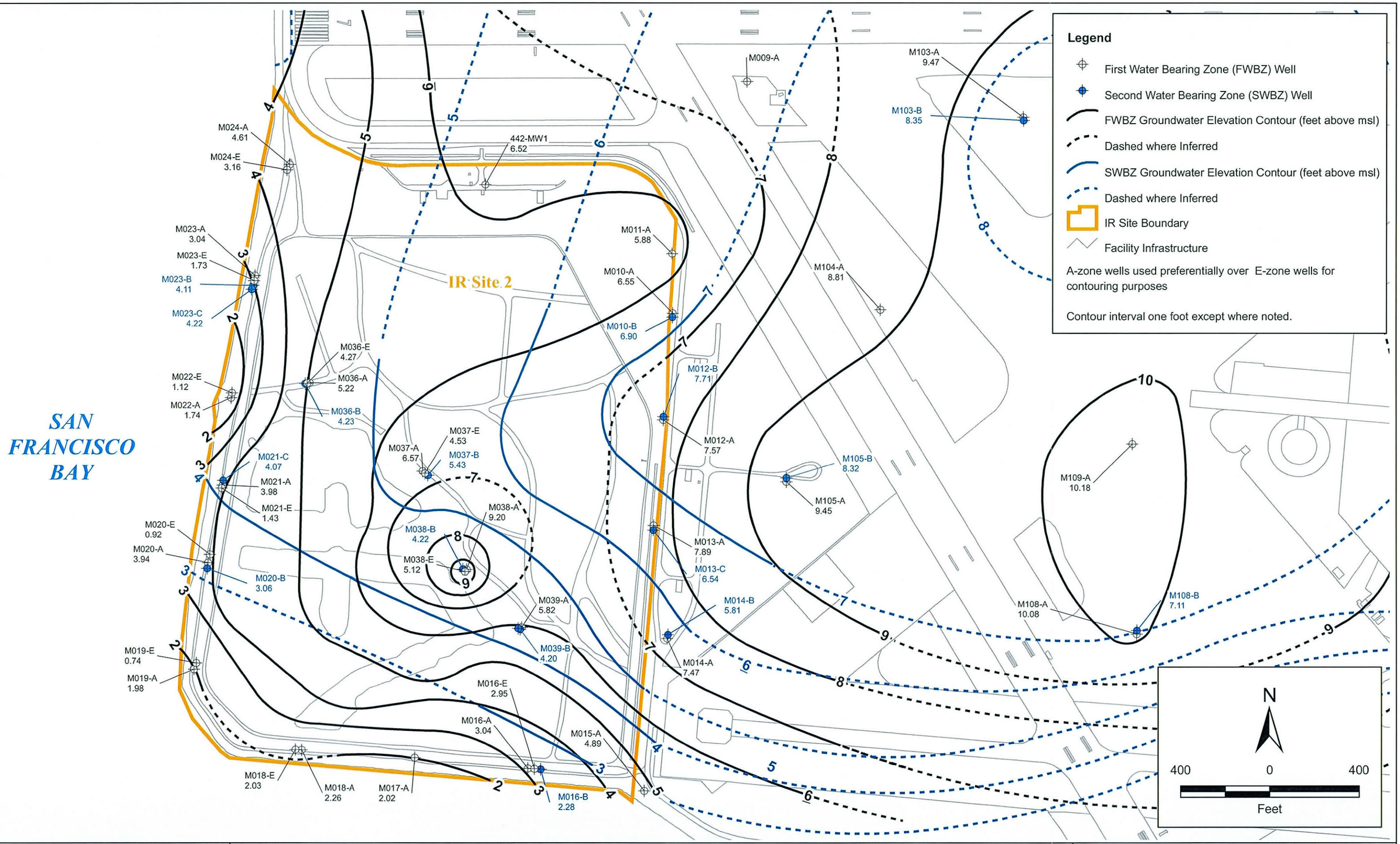

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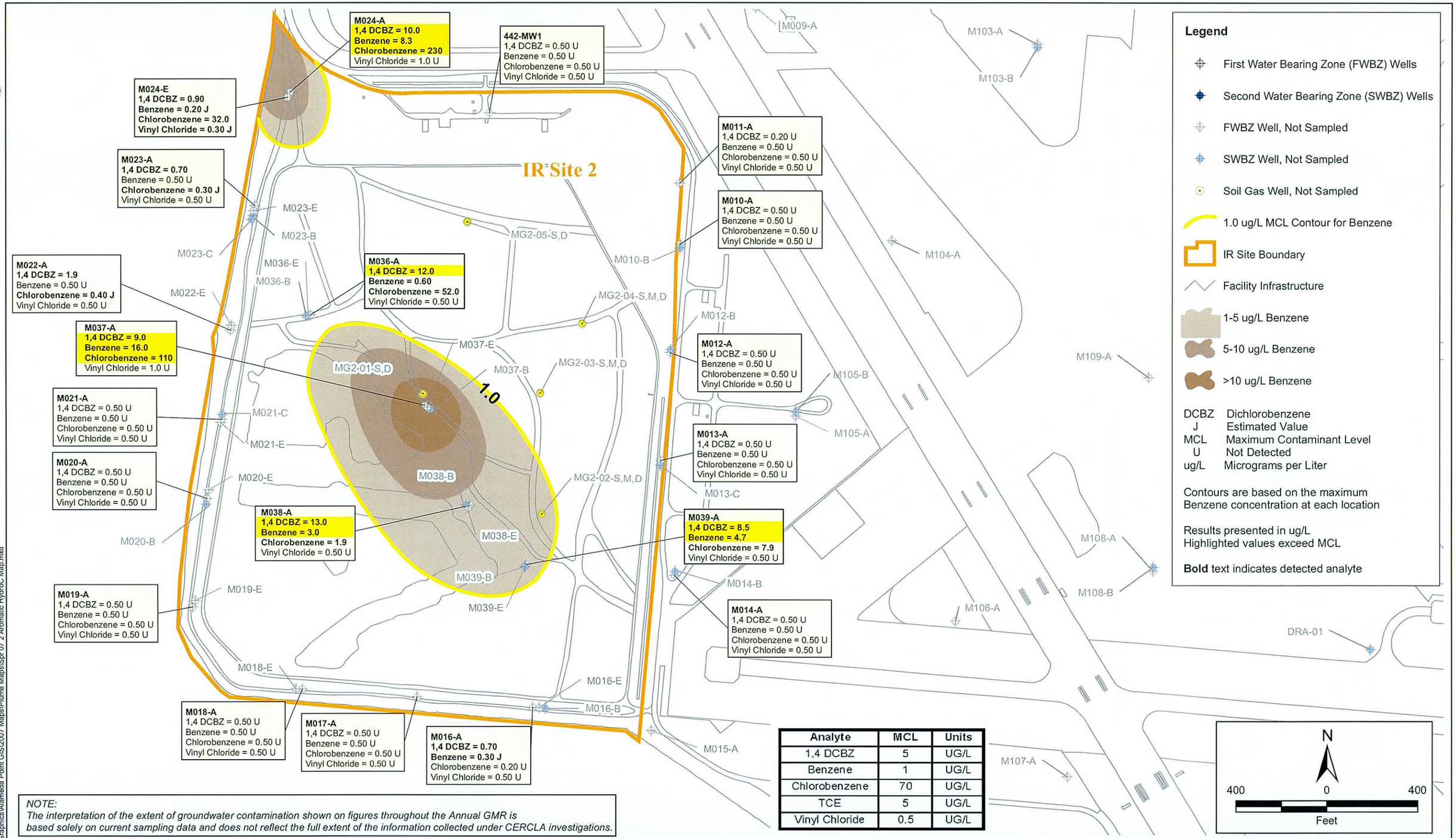
FIGURE 8.1-2
OPERABLE UNIT 4A - IR SITE 2
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007



NOTE:
The interpretation of the extent of groundwater contamination shown on figures throughout the Annual GMR is based solely on current sampling data and does not reflect the full extent of the information collected under CERCLA investigations.

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FIGURE 8.1-3
OPERABLE UNIT 4A - IR SITE 2
GROUNDWATER DISTRIBUTION OF SELECTED
VOLATILE ORGANIC HYDROCARBONS IN FWBZ WELLS
SPRING 2007

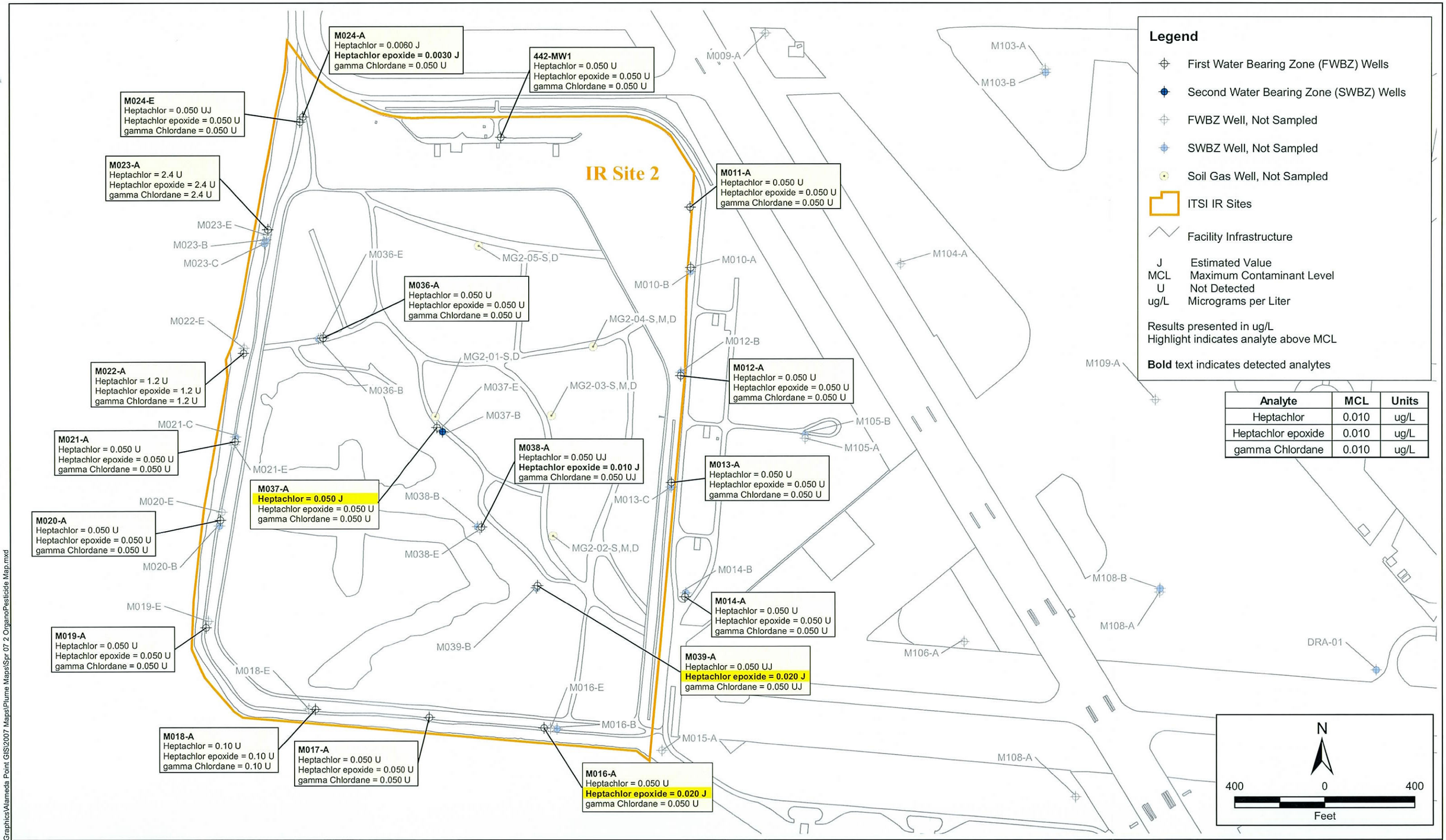

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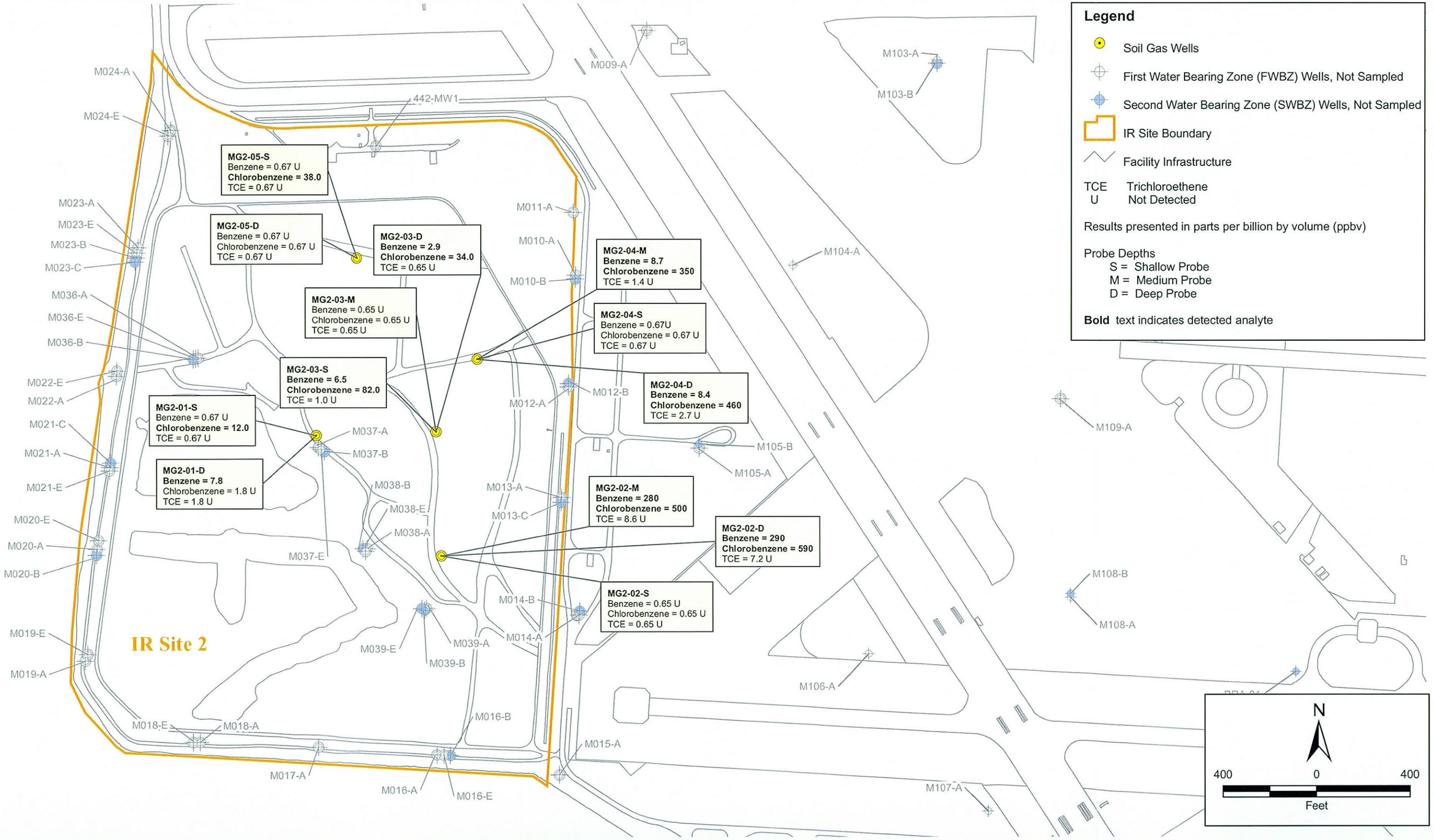
FIGURE 8.1-4
OPERABLE UNIT 4A - IR SITE 2
GROUNDWATER CONCENTRATIONS OF SELECTED ORGANOCHLORINE PESTICIDES
SPRING 2007



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2007 Maps\Plume Maps\Spr 07 2 Soil Gas Map.mxd

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FIGURE 8.1-5
OPERABLE UNIT 4A - IR SITE 2
SELECTED SOIL GAS ANALYTICAL DETECTIONS
SPRING 2007

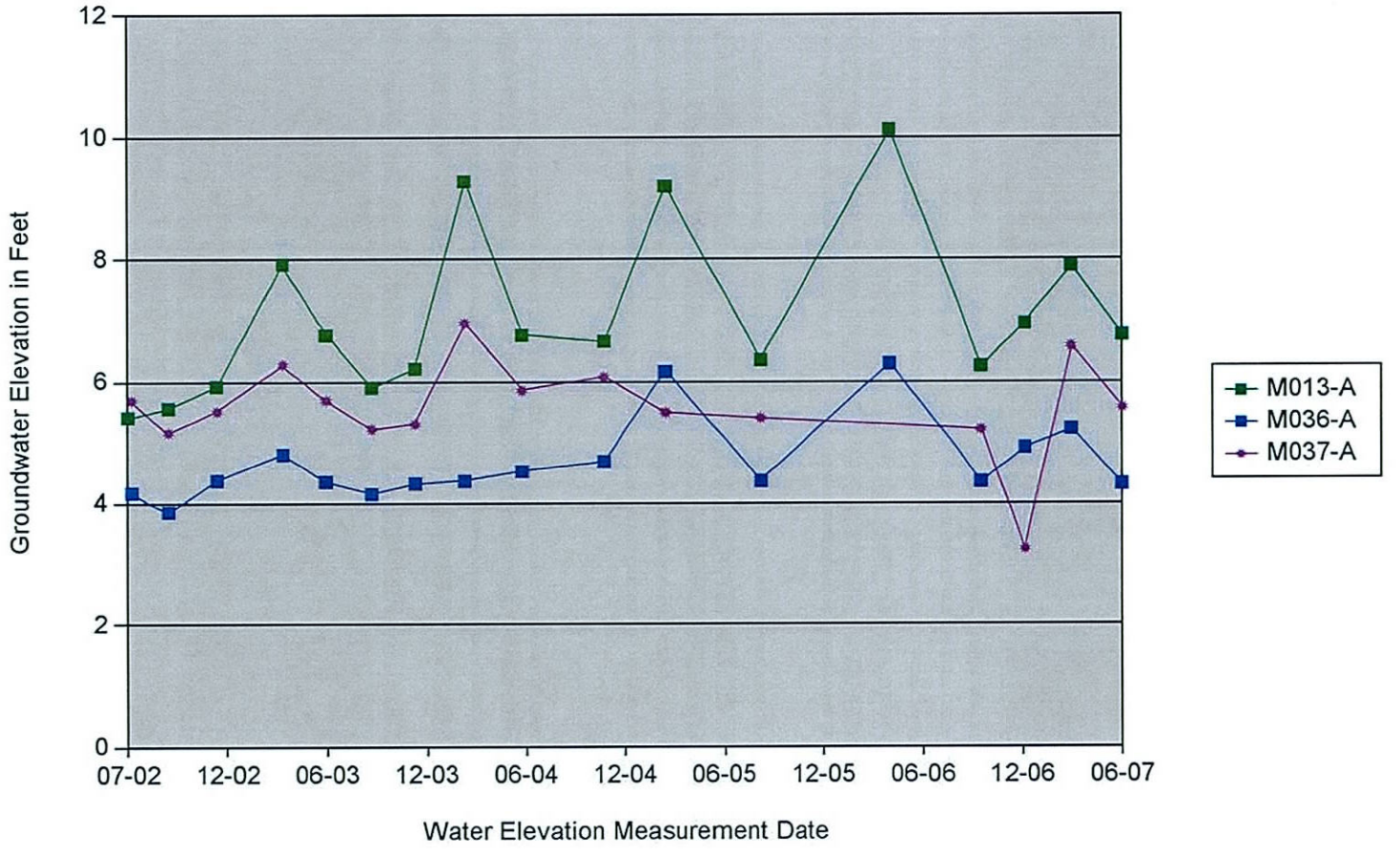

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FIGURE 8.1-6a
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 4A- IR SITE 2:
EAST-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 2\Figure 8.1-6a.ai

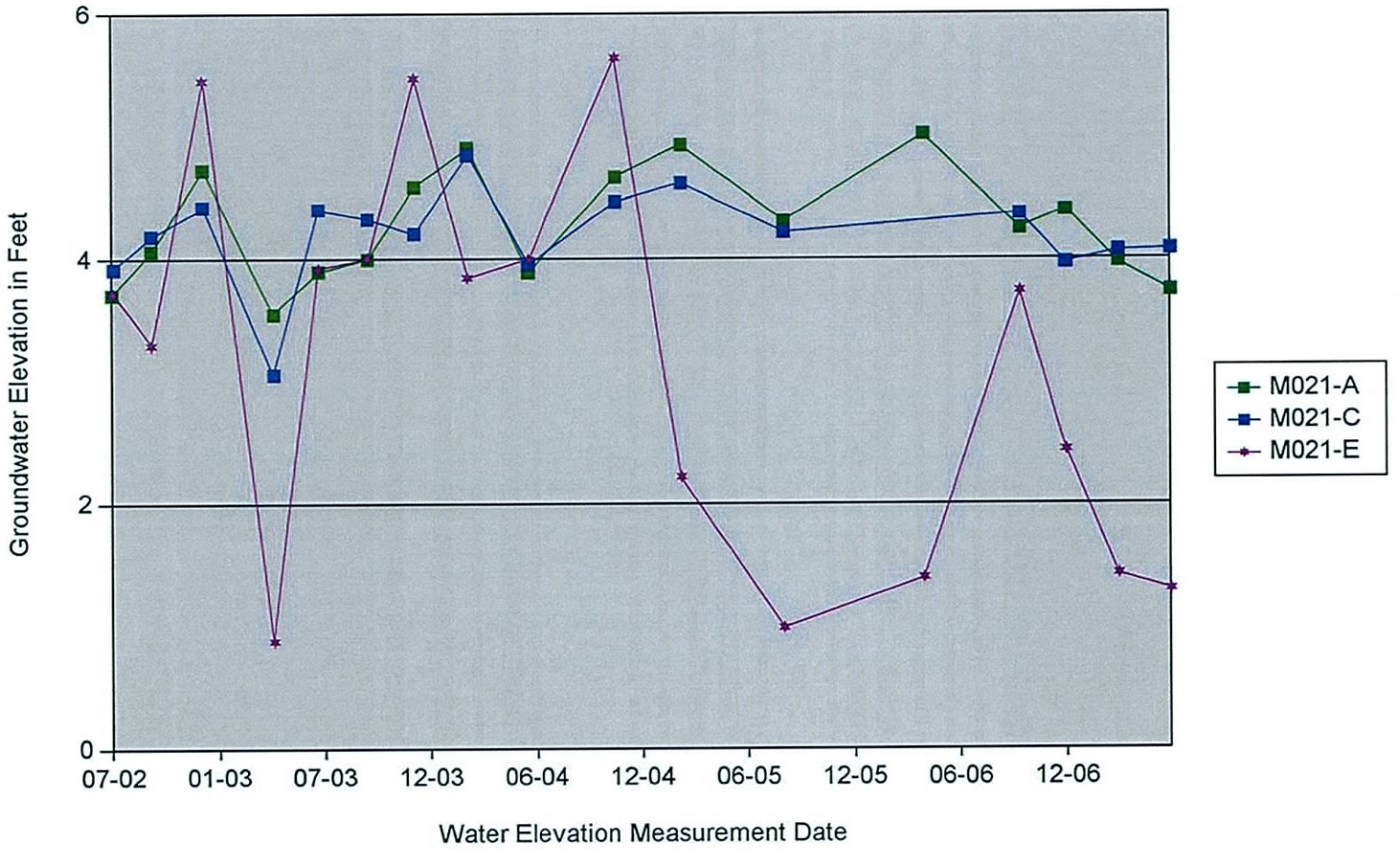

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FIGURE 8.1-6b
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 4A- IR SITE 2:
CLUSTERED WELLS WITHIN ZONE OF TIDAL INFLUENCE ON
WEST SHORELINE SITE PERIMETER
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 2\Figure 8.1-6b.ai

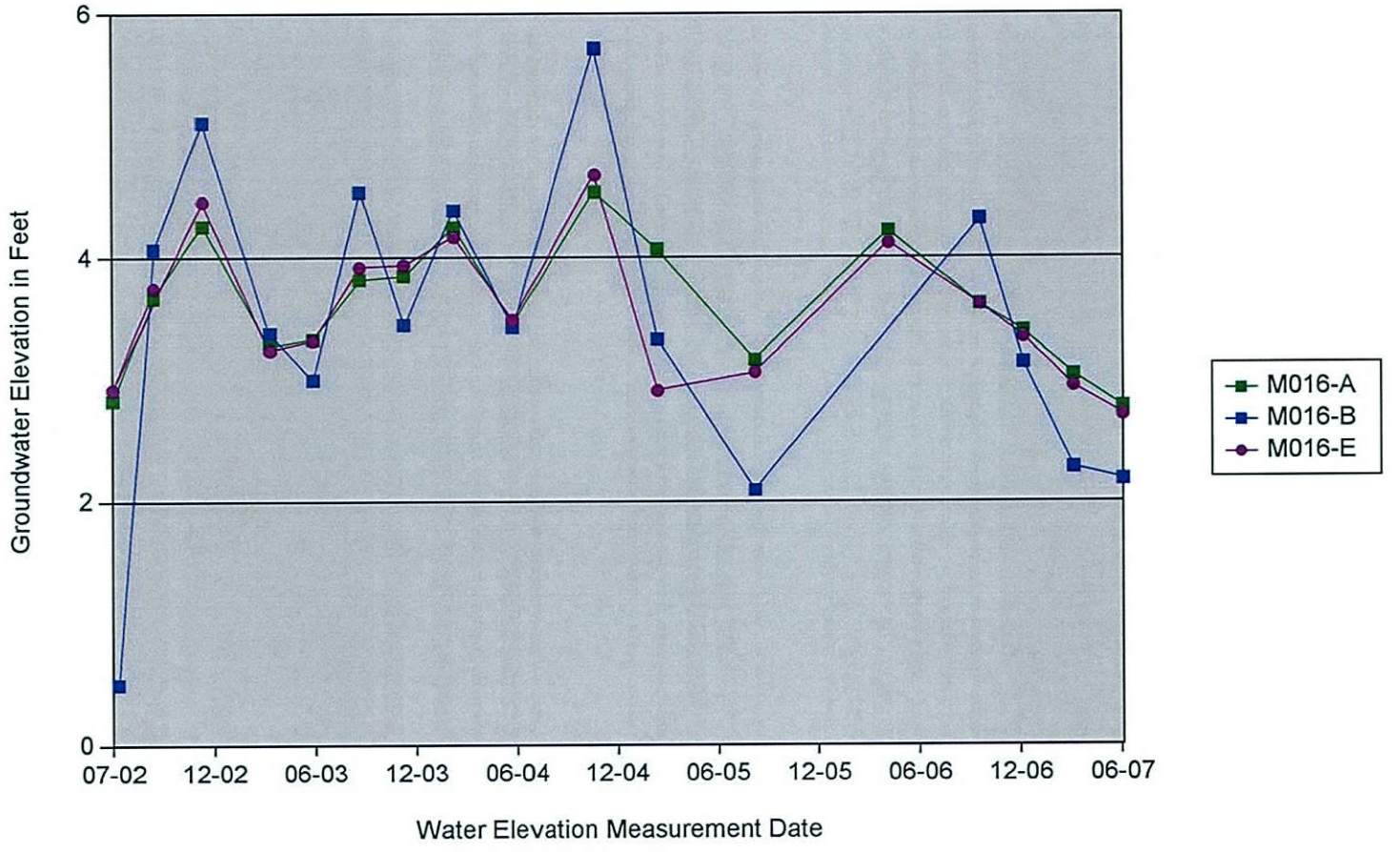

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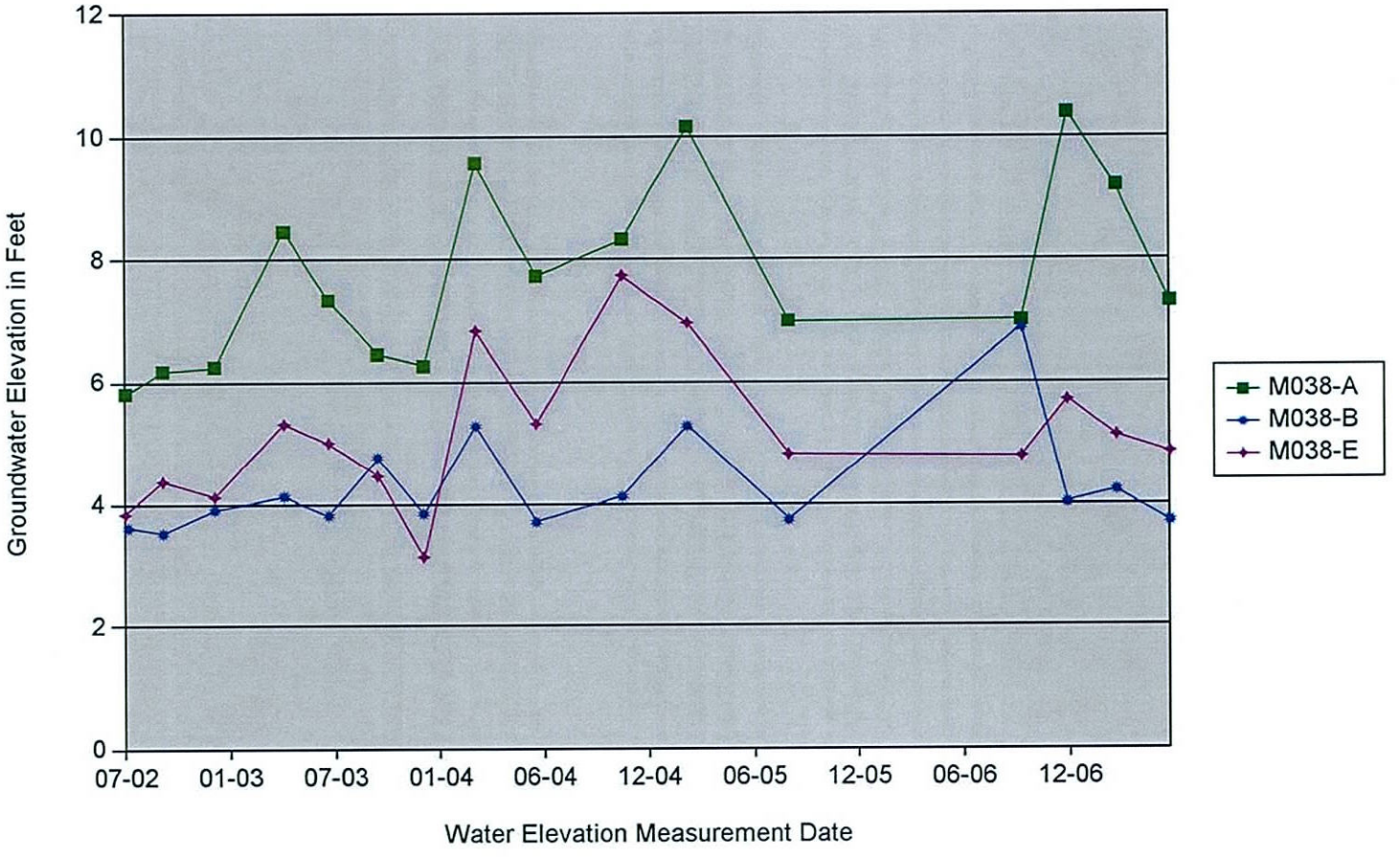
FIGURE 8.1-6c
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 4A- IR SITE 2:
CLUSTERED WELLS WITHIN ZONE OF TIDAL INFLUENCE ON
SOUTH SHORELINE SITE PERIMETER
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 2\Figure 8.1-5c.ai



2002 Projects\02-125.11\Graphics\Hydrographs\Site 2\Figure 8.1-6d.ai

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FIGURE 8.1-6d
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 4A- IR SITE 2:
CLUSTERED WELLS OUTSIDE ZONE OF TIDAL INFLUENCE
WITHIN BENZENE PLUME
SUMMER 2002 THROUGH SPRING 2007

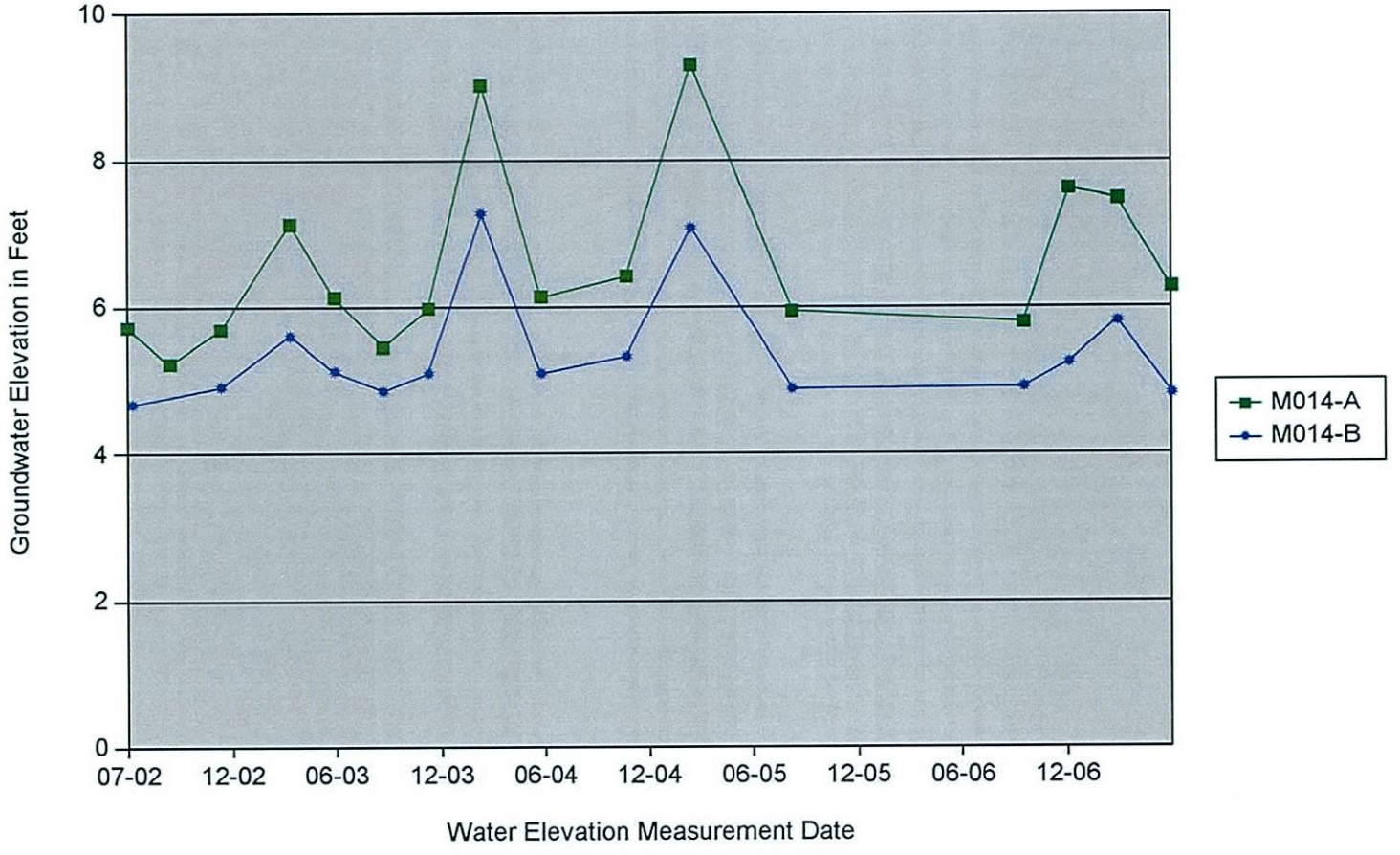

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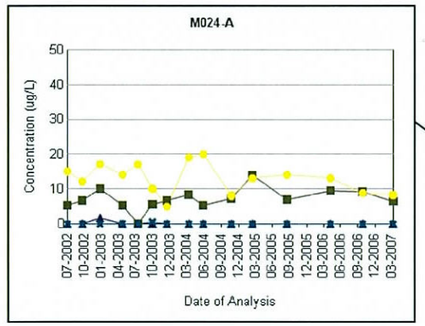
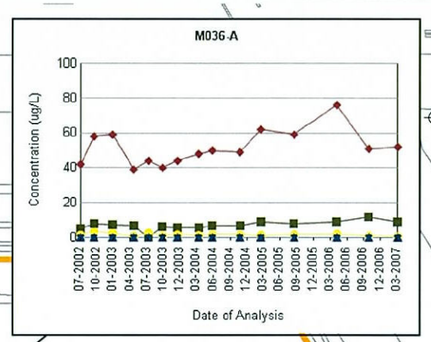
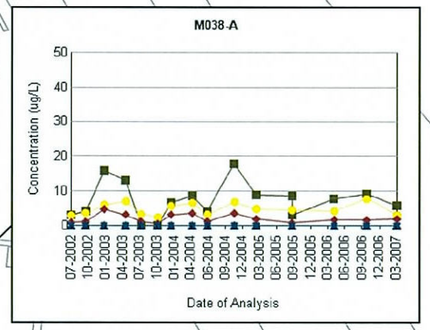
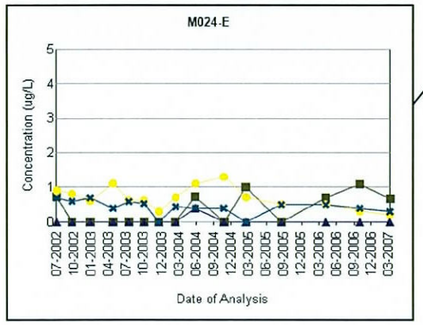
FIGURE 8.1-6e
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 4A- IR SITE 2:
PAIRED WELLS OUTSIDE ZONE OF TIDAL INFLUENCE
UPGRADIENT OF PLUME
SUMMER 2002 THROUGH SPRING 2007

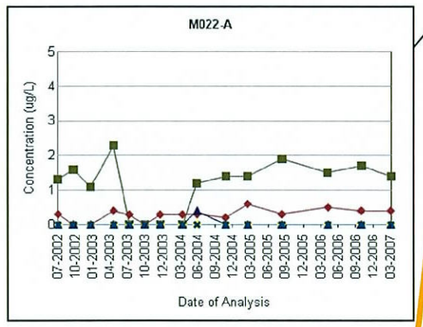
2002 Projects\02-125.11\Graphics\Hydrographs\Site 2\Figure 8.1-6e.ai

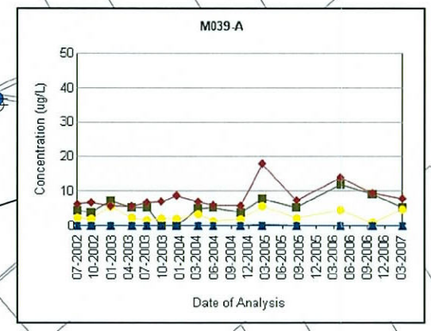


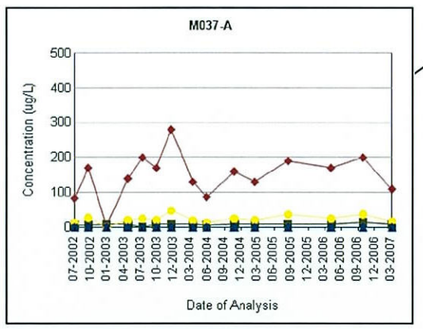


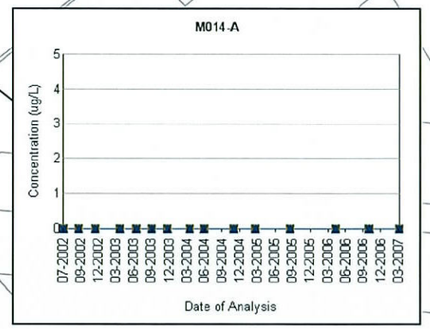












Legend

- First Water Bearing Zone (FWBZ) Well
- Second Water Bearing Zone (SWBZ) Well
- Soil Gas Well
- 1.0 ug/L MCL Contour for Benzene
- 1 - 5 ug/L Benzene
- 5 - 10 ug/L Benzene
- > 10 ug/L Benzene
- Facility Infrastructure
- IR Site Boundary

DCBZ Dichlorobenzene
MCL Maximum Contaminant Level
ug/L Micrograms per Liter

1,4 DCBZ
Benzene
Chlorobenzene
TCE
Vinyl Chloride

Analyte	MCL	Units
1,4 DCBZ	5	UG/L
Benzene	1	UG/L
Chlorobenzene	70	UG/L
TCE	5	UG/L
Vinyl Chloride	0.5	UG/L

IR Site 2

442-MW1
M009-A
M103-A
M103-B
M109-A
M108-B
M108-A
M107-A
M011-A
M010-A
M010-B
M012-B
M012-A
M105-B
M105-A
M013-C
M013-A
M014-B
M015-A
M023-A
M023-E
M023-B
M023-C
MG2-05-S,D
MG2-01-S,D
MG2-03-S,D,M
MG2-04-S,D,M
MG2-02-S,D,M
M036-B
M022-E
M036-E
M037-E
M037-B
M038-B
M038-E
M039-B
M021-C
M021-A
M021-E
M020-E
M020-A
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M019-E
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FIGURE 8.1-7
OPERABLE UNIT 4A - IR SITE 2
GROUNDWATER CONCENTRATIONS OF VOLATILE ORGANIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

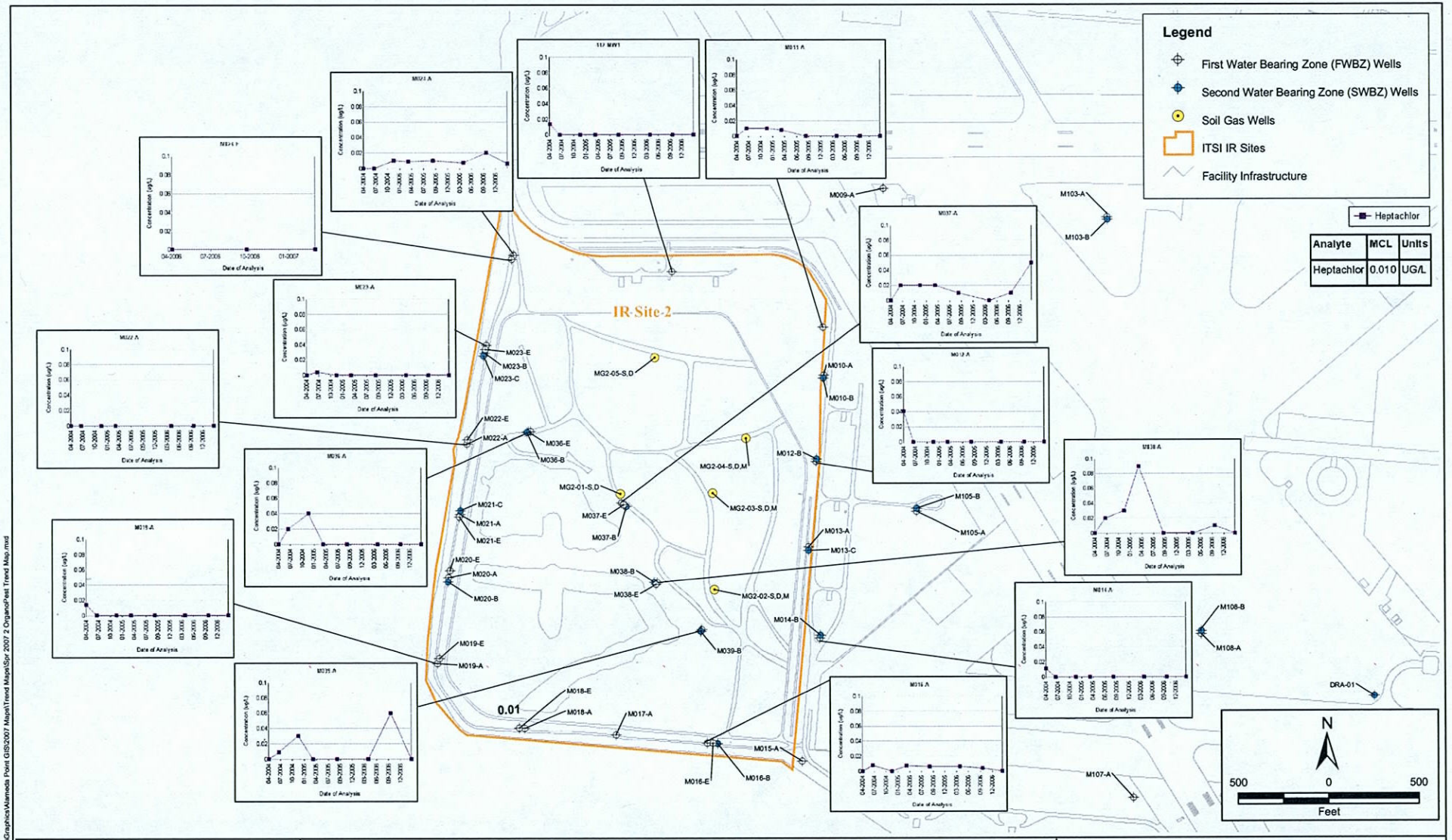

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FIGURE 8.1-8
OPERABLE UNIT 4A - IR SITE 2
GROUNDWATER CONCENTRATIONS OF HEPTACHLOR
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

9.0 OPERABLE UNIT 5

Operable Unit 5 is comprised of Installation Restoration Site 25 Group.

9.1 INSTALLATION RESTORATION SITE 25 GROUP

IR Site 25 Group, located in the northeastern corner of Alameda Point (Figure 1-2), includes IR Site 25 (Estuary Park and Coast Guard Housing Area), IR Site 30 (Miller Elementary School), and IR Site 31 (Marina Village Housing). The general area of IR Site 25 Group was historically undeveloped marshlands and tidal flats along the San Francisco Bay fringe and was later filled with sand and sediment dredged from nearby tidal flats, the Oakland Inner Harbor, and San Francisco Bay. The site was developed into a housing area for the Navy and was used for barracks for enlisted personnel from about 1947 to 1970. The area has recently been developed into military-related family housing units. A public elementary school (Miller School) and a day care center were also built in recent years to support the housing area. The property east and southeast of the housing area is the former FISCO Annex. Historical industrial operations that may have released chemicals to the environment include Scrapyard operations at the adjacent FISCO Annex and historical manufacturing/refining operations. The Scrapyard was used to store excess government equipment and scrap materials prior to closure of the Annex.

Potential sources of contamination include the following:

- Historical disposal of petroleum-related products in the marshlands
- Former manufactured gas plants north of the Oakland Inner Harbor
- Annex Scrapyard IR Site.

Background information is available in the Final RI Report for OU-5, (Neptune et. al., 2002). The characterization of IR Site 25 Group concluded that PAHs and petroleum-related contaminants (benzene) are the primary contaminants of concern in groundwater. PAH contamination at IR Site 25 Group is attributed to the use of PAH-containing dredge material as fill. This led to contamination in the upper 10 feet of fill and entrapment of petroleum-related products at the wetland/fill interface (marsh crust). An oil refinery (Pacific Coast Oil Works) operated from about 1864 to 1899 at the western tip of pre-fill Alameda, and a manufactured gas

plant (most active from 1903 to 1930) was present on the waterfront in Oakland. These industrial operations are suspected of disposing waste materials into the Oakland Shipping Channel, contributing a significant chemical load to the channel sediments. Subsequent fill events are believed to have trapped this contamination in place, resulting in a zone of elevated PAHs and petroleum hydrocarbons present as the marsh crust.

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 25 Group included sampling and analysis of 15 groundwater monitoring wells (14 FWBZ wells and one SWBZ well) and ten soil gas monitoring points. One additional FWBZ groundwater monitoring well is used for quarterly groundwater-level measurement only. All groundwater and soil gas monitoring points in the Summer 2006 through Spring 2007 program are listed in Table 9.1-1, along with their analytical requirements. Table 9.1-1 also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e., wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 9.1-1.

9.1.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 16 groundwater monitoring wells during the four Summer 2006 through Spring 2007 sampling events at IR Site 25 Group. The results are presented along with previously collected water-level data in Table 9.1-2.

9.1.2 Analytical Parameters

Groundwater samples collected from IR Site 25 Group wells during the Summer 2006 and Spring 2007 sampling events were analyzed for the following parameters:

- VOCs by EPA Method 8260B
- PAHs by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments).

Table 9.1-1 lists all IR Site 25 groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements. In addition, soil gas monitoring points

were analyzed in Summer 2006 through Spring 2007 for VOCs (EPA Method TO-15) and Fixed Gases (ASTM Method D1946).

9.1.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following sections, and listed along with previously obtained analytical data in the following tables:

- Table 9.1-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007"
- Table 9.1-4, "Groundwater Sample Analytical Results: Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007"
- Table 9.1-5, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007"
- Table 9.1-6, "Groundwater Sampling Field Parameters at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007"
- Table 9.1-7, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007"
- Table 9.1-8, "Soil Gas Analytical Results: Volatile Organic Compounds and Fixed Gases at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007".

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background

values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in **bold** text on the metals tables only.

9.1.4 Discussion of Results

Concentrations of various aromatic hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ. **Benzene, toluene, tetrachloroethene, and methylene chloride** were the only VOCs detected at concentrations exceeding their respective MCLs in FWBZ wells during the current sampling year. Benzene was detected above the MCL of 1 µg/L in nine wells, at a maximum concentration of 550 µg/L in groundwater collected from well P181-MW47 during the Spring 2007 sampling event (Table 9.1-3). The distributions of aromatic and chlorinated hydrocarbons in FWBZ groundwater monitoring wells at the IR Site 9 Group are discussed more fully in Section 9.1.4.2.

Benzo(a)pyrene was detected above its MCL of 0.20 µg/L in two wells; the maximum groundwater concentration of 5.9 J µg/L was collected from well M25-01 during the Spring 2007 sampling event (Table 9.1-4).

Arsenic and barium were the only dissolved metals detected in the FWBZ at concentrations exceeding an MCL during the current sampling year. Arsenic concentrations exceeded the MCL but were not above background value in two FWBZ wells: S-16R and S-35R-2 (Table 9.1-5). Barium exceeded both MCL and background value in two FWBZ wells: P181-MW45 and PW-12. **Arsenic** and **barium** were detected in the single SWBZ well, D-02R, above their respective MCLs.

Field parameters measured during sampling are presented in Table 9.1-6.

A summary of detected analytical results for natural attenuation parameters is presented in Table 9.1-7. Several wells at IR Site 25 Group are monitored for various natural attenuation parameters, such as alkalinity, dissolved gases, anions, nitrate and sulfate. Methane as dissolved gases was detected at a maximum concentration of 24,000 µg/L in well D-02R in Spring 2007.

Soil gas results indicate relatively low concentrations aromatic compounds and predominantly BTEX, in the vadose zone at IR Site 25 Group (Table 9.1-8). One soil gas sample was significantly higher than the others, with OU5-SG-16S containing 90 ppbv benzene.

9.1.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 9.1-2. The general groundwater flow direction in the FWBZ is northeast to southwest across the site. Superimposed upon this pattern is also a local elongate mound extending approximately from well PW-12 to M25-02, and a pronounced low area centered on well M25-06 in the southwestern part of the site. Groundwater flow directions vary across the site, ranging from west to south. Gradients also vary significantly across the site, averaging about 0.004 feet per foot.

9.1.4.2 Groundwater and Soil Gas Contaminant Distribution

The groundwater contaminant distribution of benzene is illustrated on Figure 9.1-3. Benzene concentrations above 100 µg/L in groundwater occur in two areas in the southeastern and southwestern portions of the site. The two areas appear to overlap just south of the center of IR Site 25 Group, forming a semi-continuous plume. The single toluene and PCE detections above MCLs were within the benzene contaminant plume, at wells that have had high benzene concentrations in each sampling event (M25-01 and P181-MW47).

Benzo(a)pyrene has been frequently detected above its MCL in two wells: M25-01 and S-35R-2. These wells are located within the areas contaminated by other petroleum compounds, specifically the benzene plume.

The soil gas contaminant distribution for BTEX compounds is presented on Figure 9.1-4. The highest BTEX concentrations were detected in the southern portion of the site, at OU5-SG-16S.

9.1.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 9.1-9, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 9.1-9 also lists the historical maximum concentration

(Summer 2002 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2006 through Spring 2007 sampling year were similar to those found in previous sampling years.

Overall, the current analytical results are consistent with, and within the range of results reported in, the historical data for each monitoring well sampled at IR Site 25 Group.

9.1.4.4 Trends in Groundwater Elevation Data

Figure 9.1-5 depicts groundwater elevations through time for selected wells in IR Site 25 Group. Seasonal trends are apparent, with high groundwater elevations occurring in winter and spring, and low elevations in summer and fall. No discernible rising or falling trends are apparent from one year to the next.

9.1.4.5 Trends in Groundwater Contaminant Concentrations

Trends in selected groundwater contaminant concentrations (benzene and naphthalene) in selected wells over time are displayed on Figure 9.1-6. In general, there have been no significant changes in contaminant concentrations for benzene or benzo(a)pyrene in any of the site wells over the past four years. Naphthalene concentrations have fluctuated somewhat, showing increases at several high-contamination wells and decreases at several others.

9.1.5 Conclusions and Recommendations

Benzene exceeding the MCL occurs in two portions of the site: the southeast and the southwest. In the southeast portion, benzene appears to have affected only the FWBZ; the only SWBZ site well, D-02R, has not had benzene detections. The overall trend of benzene detections and concentrations in the wells monitored and sampled for at least three years remains generally unchanged. Other petroleum-related compounds (toluene and benzo[a]pyrene) and PCE were found above MCLs during a single event in the past year, at wells within the benzene plume.

The soil gas wells indicate the presence of organic vapor and organic biodegradation components in the vapor stream. Over five rounds of soil gas sampling conducted at IR Site 25 indicate similar ranges of organic vapor detections with a few sporadic spikes in detection.

Based on the completion of the OU-5 groundwater ROD and in-progress pre-design field work, future IR Site 25 group sampling will be conducted in accordance with the May 2007 pre-design

work plan and the upcoming OU-5 remedial action work plan requirements. No future sampling will be conducted at the IR Site 25 group under the BGMP while remediation is in progress.

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TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 9.1-1
Groundwater Monitoring Summary, Operable Unit 5- IR Site 25 Group, Summer 2006 through Spring 2007

				Organic Compounds		Inorganic Compounds	Natural Attenuation Parameters					Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Groundwater Monitoring Program Wells													
First	M25-01	Fill-BSU	10 - 20	S	S	S	A	A	A	A	A		
	M25-02	Fill-BSU	10 - 20	S	S	S	A	A	A	A	A		
	M25-04	Fill-BSU	10 - 20	S	S	S	A	A	A	A	A		
	M25-05	Fill-BSU	9 - 19	S	S	S	A	A	A	A	A		
	M25-06	Fill-BSU	10 - 19.5	S	S								
	M25-07	Fill-BSU	10 - 19.5	S	S								
	M25-08	Fill-BSU	10 - 19.5	S	S								
	M25-09	Fill-BSU	10 - 19.5	S	S	S	A	A	A	A	A		
	P181-MW45	Fill	16 - 18.5	S	S	S	A	A	A	A	A		
	P181-MW46	Fill	9 - 19	S	S	S	A	A	A	A	A		
	P181-MW47	Fill	13.5 - 18.5	S	S	S	A	A	A	A	A		
	PW-12	Fill	12 - 17	S	S	S	A	A	A	A	A		
	S-16R	Fill	9 - 19	S	S	S	A	A	A	A	A		
	S-35R-2	Fill	10 - 19.5	S	S	S	A	A	A	A	A		
Second	D-02R	BSU	95 - 105	A	A	S	A	A	A	A	A		
Vadose	OU5-SG-16-S	Fill	3 - 3.5									Q	A
	OU5-SG-16-D	Fill	4.5 - 6									Q	A
	OU5-SG-17-S	Fill	1 - 2.5									Q	A
	OU5-SG-17-D	Fill	3.5 - 5									Q	A
	OU5-SG-18-S	Fill	2 - 4									Q	A
	OU5-SG-18-D	Fill	5 - 7									Q	A
	OU5-SG-19-S	Fill	1.5 - 3.5									Q	A

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Groundwater Monitoring Summary, Operable Unit 5- IR Site 25 Group, Summer 2006 through Spring 2007

				Organic Compounds		Inorganic Compounds	Natural Attenuation Parameters					Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Vadose	OU5-SG-19-D	Fill	4.5 - 6.5									Q	A
	OU5-SG-20-S	Fill	2 - 4									Q	A
	OU5-SG-20-D	Fill	6 - 8									Q	A
Non-Program Wells, Water Level Only													
First	MBG-2			-	-	-	-	-	-	-	-	-	-
	PW-10A	Fill	12 - 17	-	-	-	-	-	-	-	-	-	-

Notes:

S	Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007
A	Well sampled for this analyte group ANNUALLY; Spring 2007
Q	Well sampled for this analyte group QUARTERLY; Summer 2006, Fall 2006, Winter 2006, and Spring 2007
-	Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175
ASTM - American Society for Testing and Materials

Table 9.1-2
Summary of Groundwater Level Measurements at Operable Unit 5 - IR Site 25 Group, Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M25-01	11.9	11.70 *	03/07/07	6.01	5.69
		11.9	11.70 *	12/12/06	6.72	4.98
		11.9	11.70 *	09/26/06	8.25	3.45
		11.9	11.70 *	07/10/06	6.71	4.99
		11.9	11.70 *	04/12/06	4.85	6.85
		11.9	11.70 *	08/24/05	7.58	4.12
		11.9	11.70 *	03/01/05	7.35	4.35
		11.9	11.70 *	11/09/04	8.15	3.55
		11.9	11.70 *	06/15/04	8.79	2.91
		11.9	11.70 *	03/01/04	8.31	3.39
		11.9	11.70 *	12/03/03	8.30	3.40
		11.9	11.70 *	09/16/03	8.71	2.99
		11.9	11.70 *	06/24/03	6.70	5.00
		11.9	11.70 *	04/08/03	6.23	5.47
		11.9	11.70 *	12/12/02	6.74	4.96
		11.9	11.70 *	09/10/02	7.85	3.85
First	M25-02	10.2	10.78 *	03/07/07	4.39	6.39
		10.2	10.78 *	12/12/06	5.92	4.86
		10.2	10.78 *	09/26/06	7.52	3.26
		10.2	10.78 *	07/10/06	6.25	4.53
		10.2	10.78 *	04/12/06	2.55	8.23
		10.2	10.78 *	08/24/05	6.10	4.68
		10.2	10.78 *	03/01/05	3.12	7.66
		10.2	10.78 *	11/09/04	5.22	5.56
		10.2	10.78 *	06/15/04	5.19	5.59
		10.2	10.78 *	03/01/04	3.14	7.64
		10.2	10.78 *	12/03/03	5.36	5.42
		10.2	10.78 *	09/16/03	4.92	5.86
		10.2	10.78 *	06/24/03	5.31	5.47
		10.2	10.78 *	04/08/03	5.68	5.10
		10.2	10.78 *	12/12/02	5.80	4.98
		10.2	10.78 *	09/10/02	5.40	5.38
First	M25-03 ‡	11.1	10.75 *	08/24/05	NM	NC
		11.1	10.75 *	03/01/05	NM	NC
		11.1	10.75 *	11/09/04	NM	NC
		11.1	10.75 *	06/15/04	2.95	7.80
		11.1	10.75 *	03/02/04	1.59	9.16
		11.1	10.75 *	12/03/03	3.28	7.47
		11.1	10.75 *	09/16/03	5.68	5.07
		11.1	10.75 *	06/24/03	6.74	4.01
		11.1	10.75 *	04/08/03	7.89	2.86
		11.1	10.75 *	12/12/02	5.19	5.56
		11.1	10.75 *	09/10/02	5.38	5.37
First	M25-04	13.8	9.73 *	03/07/07	4.49	5.24
		13.8	9.73 *	12/12/06	5.12	4.61
		13.8	9.73 *	09/26/06	6.58	3.15
		13.8	9.73 *	07/10/06	6.19	3.54

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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M25-04	13.8	9.73 *	04/12/06	2.07	7.66
		13.8	9.73 *	08/24/05	4.66	5.07
		13.8	9.73 *	03/01/05	3.13	6.60
		13.8	9.73 *	11/09/04	5.44	4.29
		13.8	9.73 *	06/15/04	5.76	3.97
		13.8	9.73 *	03/01/04	3.10	6.63
		13.8	9.73 *	12/03/03	5.19	4.54
		13.8	9.73 *	09/16/03	5.65	4.08
		13.8	9.73 *	06/24/03	5.81	3.92
		13.8	9.73 *	04/08/03	4.88	4.85
		13.8	9.73 *	12/12/02	5.22	4.51
		13.8	9.73 *	09/10/02	5.25	4.48
First	M25-05	15.3	15.06 *	03/06/07	9.80	5.26
		15.3	15.06 *	12/13/06	10.31	4.75
		15.3	15.06 *	09/26/06	13.95	1.11
		15.3	15.06 *	07/10/06	9.61	5.45
		15.3	15.06 *	04/12/06	10.40	4.66
		15.3	15.06 *	08/24/05	9.49	5.57
		15.3	15.06 *	03/01/05	10.21	4.85
		15.3	15.06 *	11/09/04	11.31	3.75
		15.3	15.06 *	06/15/04	12.34	2.72
		15.3	15.06 *	03/01/04	8.30	6.76
		15.3	15.06 *	12/03/03	10.63	4.43
		15.3	15.06 *	09/16/03	11.31	3.75
		15.3	15.06 *	06/24/03	10.71	4.35
		15.3	15.06 *	04/08/03	8.88	6.18
		15.3	15.06 *	12/12/02	9.44	5.62
		15.3	15.06 *	09/10/02	9.55	5.51
First	M25-06	10.3	10.14	03/06/07	7.90	2.24
		10.3	10.14	12/12/06	7.44	2.70
		10.3	10.14	09/26/06	8.22	1.92
		10.3	10.14	07/10/06	8.00	2.14
		10.3	10.14	04/12/06	6.00	4.14
		10.3	10.14	08/24/05	9.19	0.95
		10.3	10.14	03/01/05	9.50	0.64
		10.3	10.14	11/09/04	10.07	0.07
		10.3	10.14	06/15/04	10.05	0.09
First	M25-07	9.73	9.63	03/06/07	5.21	4.42
		9.73	9.63	12/12/06	5.55	4.08
		9.73	9.63	09/26/06	5.29	4.34
		9.73	9.63	07/10/06	5.06	4.57
		9.73	9.63	04/12/06	4.25	5.38
		9.73	9.63	08/24/05	5.32	4.31
		9.73	9.63	03/01/05	10.59	-0.96
		9.73	9.63	11/09/04	10.98	-1.35
		9.73	9.63	06/15/04	5.39	4.24

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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M25-08	8.15	8.10	03/07/07	3.31	4.79
		8.15	8.10	12/12/06	3.53	4.57
		8.15	8.10	09/26/06	4.15	3.95
		8.15	8.10	07/10/06	4.02	4.08
		8.15	8.10	04/12/06	2.40	5.70
		8.15	8.10	08/24/05	3.93	4.17
		8.15	8.10	03/01/05	6.85	1.25
		8.15	8.10	11/09/04	3.16	4.94
		8.15	8.10	06/15/04	5.94	2.16
First	M25-09	13.20	13.11	03/07/07	10.05	3.06
		13.20	13.11	12/13/06	7.35	5.76
		13.20	13.11	09/26/06	7.99	5.12
		13.20	13.11	07/10/06	7.91	5.20
		13.20	13.11	04/12/06	7.23	5.88
		13.20	13.11	08/24/05	8.42	4.69
		13.20	13.11	03/01/05	7.02	6.09
		13.20	13.11	11/09/04	9.32	3.79
		13.20	13.11	06/15/04	6.14	6.97
First	MBG-2	NA	10.31	03/07/07	3.81	6.50
		NA	10.31	12/13/06	4.51	5.80
		NA	10.31	09/26/06	4.88	5.43
		NA	10.31	07/10/06	4.28	6.03
		NA	10.31	04/12/06	1.95	8.36
First	P181-MW45	9.80	9.21 *	03/07/07	3.08	6.13
		9.80	9.21 *	12/13/06	3.47	5.74
		9.80	9.21 *	09/26/06	4.95	4.26
		9.80	9.21 *	07/10/06	4.54	4.67
		9.80	9.21 *	04/12/06	2.2	7.01
		9.80	9.21 *	08/24/05	5.11	4.10
		9.8	9.21 *	03/01/05	2.44	6.77
		9.8	9.21 *	11/09/04	4.62	4.59
		9.8	9.21 *	06/15/04	4.56	4.65
		9.8	9.21 *	03/01/04	2.24	6.97
		9.8	9.21 *	12/03/03	3.79	5.42
		9.8	9.21 *	09/16/03	4.81	4.40
		9.8	9.21 *	06/24/03	4.38	4.83
		9.8	9.21 *	04/08/03	4.27	4.94
		9.8	9.21 *	12/11/02	3.98	5.23
		9.8	9.21 *	09/10/02	3.97	5.24
		9.8	9.21 *	06/24/02	4.20	5.01
First	P181-MW46	10.5	10.29 *	03/07/07	4.51	5.78
		10.5	10.29 *	12/13/06	5.80	4.49
		10.5	10.29 *	09/26/06	6.42	3.87
		10.5	10.29 *	07/11/06	5.86	4.43
		10.5	10.29 *	04/12/06	2.62	7.67
		10.5	10.29 *	08/24/05	5.65	4.64

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First	P181-MW46	10.5	10.29 *	03/01/05	3.43	6.86
		10.5	10.29 *	11/09/04	5.22	5.07
		10.5	10.29 *	06/15/04	5.64	4.65
		10.5	10.29 *	03/01/04	3.38	6.91
		10.5	10.29 *	12/03/03	5.50	4.79
		10.5	10.29 *	09/16/03	5.48	4.81
		10.5	10.29 *	06/24/03	5.70	4.59
		10.5	10.29 *	04/08/03	6.24	4.05
		10.5	10.29 *	12/11/02	6.45	3.84
		10.5	10.29 *	09/10/02	5.44	4.85
		10.5	10.29 *	06/24/02	5.35	4.94
First	P181-MW47	12.6	12.39 *	03/07/07	6.72	5.67
		12.6	12.39 *	12/13/06	8.11	4.28
		12.6	12.39 *	09/26/06	8.66	3.73
		12.6	12.39 *	07/11/06	7.85	4.54
		12.6	12.39 *	04/12/06	5.35	7.04
		12.6	12.39 *	08/24/05	7.31	5.08
		12.6	12.39 *	03/01/05	5.46	6.93
		12.6	12.39 *	11/09/04	7.76	4.63
		12.6	12.39 *	06/15/04	7.94	4.45
		12.6	12.39 *	03/01/04	5.41	6.98
		12.6	12.39 *	12/03/03	8.54	3.85
		12.6	12.39 *	09/16/03	8.40	3.99
		12.6	12.39 *	06/24/03	8.12	4.27
		12.6	12.39 *	04/08/03	7.39	5.00
		12.6	12.39 *	12/11/02	8.85	3.54
		12.6	12.39 *	09/10/02	7.56	4.83
		12.6	12.39 *	06/24/02	7.56	4.83
First	PW-10A ‡	14.4	12.13	04/12/06	NM	NC
		14.4	12.13	03/01/05	NM	NC
		14.4	12.13	11/09/04	8.85	3.28
		14.4	12.13	06/15/04	8.85	3.28
		14.4	12.13	03/01/04	7.14	4.99
		14.4	12.13	12/03/03	8.58	3.55
First	PW-12	13.3	15.38 *	03/07/07	9.13	6.25
		13.3	15.38 *	12/13/06	10.14	5.24
		13.3	15.38 *	09/26/06	10.87	4.51
		13.3	15.38 *	07/10/06	30.60	-15.22
		13.3	15.38 *	04/12/06	7.35	8.03
		13.3	15.38 *	08/24/05	10.05	5.33
		13.3	15.38 *	03/01/05	8.42	6.96
		13.3	15.38 *	11/09/04	10.75	4.63
		13.3	15.38 *	06/15/04	10.01	5.37
		13.3	15.38 *	03/01/04	7.76	7.62
		13.3	15.38 *	12/03/03	9.85	5.53
		13.3	15.38 *	09/16/03	10.23	5.15
		13.3	15.38 *	06/24/03	9.98	5.40

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First	PW-12	13.3	15.38 *	04/08/03	10.56	4.82
		13.3	15.38 *	12/11/02	9.99	5.39
		13.3	15.38 *	09/10/02	9.99	5.39
		13.3	15.38 *	06/24/02	9.90	5.48
First	S-16-R	14.0	14.48	03/06/07	8.65	5.83
		14.0	14.48	12/12/06	8.40	6.08
		14.0	14.48	09/27/06	8.57	5.91
		14.0	14.48	07/11/06	8.19	6.29
		14.0	14.48	04/12/06	10.00	4.48
		14.0	14.48	08/24/05	8.05	6.43
		14.03	14.48	03/01/05	5.30	9.18
		14.03	14.48	11/09/04	7.85	6.63
First	S16-2	14.3	14.03	11/09/04	NM	NC
		14.3	14.03	06/16/04	8.1	5.93
		14.3	14.03	03/02/04	9.38	4.65
		14.3	14.03	12/03/03	8.19	5.84
First	S-35R-2	11.8	11.53 ***	03/07/07	5.35	6.18
		11.8	11.53 ***	12/12/06	6.84	4.69
		11.8	11.53 ***	09/26/06	6.96	4.57
		11.8	11.53 ***	07/10/06	6.42	5.11
		11.8	11.53 ***	04/12/06	3.55	7.98
		11.8	11.53 ***	08/24/05	6.12	5.41
		11.81	11.53 ***	03/01/05	4.33	7.20
First	S-35R	11.81	11.80 ***	08/24/05	6.32	5.48
		11.81	11.80 ***	03/01/05	NM	NC
		11.81	11.80 ***	11/09/04	6.06	5.74
		11.81	11.80 ***	06/15/04	6.29	5.51
First	S-35	13.3	13.01 *	11/09/04	NM	NC
		13.3	13.01 *	06/15/04	7.49	5.52
		13.3	13.01 *	03/01/04	4.93	8.08
		13.3	13.01 *	12/03/03	7.84	5.17
		13.3	13.01 *	09/16/03	7.81	5.20
		13.3	13.01 *	06/24/03	7.55	5.46
		13.3	13.01 *	04/08/03	7.35	5.66
		13.3	13.01 *	12/11/02	7.73	5.28
		13.3	13.01 *	09/10/02	7.76	5.25
		13.3	13.01 *	06/25/02	4.60	8.41
Second	D-02R	13.4	13.04	12/12/06	5.82	7.22
		13.4	13.04	07/10/06	5.02	NC
		13.4	13.04	08/24/05	NM	NC
		13.4	13.04	03/01/05	5.30	7.74
Second	D-02	13.4	13.04	04/12/06	NM	NC
		13.4	13.04	08/24/05	NM	NC
		13.4	13.04	03/01/05	NM	NC
		13.4	13.04	11/09/04	6.52	6.52
		13.4	13.04	06/15/04	6.31	6.73
		13.4	13.04	03/01/04	6.31	6.73

Table 9.1-2
Summary of Groundwater Level Measurements at
Operable Unit 5 - IR Site 25 Group,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D-02	13.4	13.04	12/03/03	6.89	6.15
		13.4	13.04	09/16/03	7.55	5.49
		13.4	13.04	06/24/03	8.19	4.85
		13.4	13.04	04/08/03	8.25	4.79
		13.4	13.04	12/11/02	7.87	5.17
		13.4	13.04	09/10/02	7.53	5.51
		13.4	13.04	07/16/02	7.54	5.50

Notes:

BTOC = below top of casing

BGS = below ground surface

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NF = Monitoring well not found

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

*** = Surveyed with GPS

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2007 01 (Spring)	450	180	180	140	76.0	6700	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0
		2006 03 (Fall)	340	110	140	86.0	57.0	4700	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
		2006 01 (Spring)	270	94.0	130	76.0	52.0	4600	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0
		2005 02 (Summer)	440	140	170	95.0	72.0	6300	< 50.0	15.0 J	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
		2005 01 (Spring)	490	150	140	93.0	59.0	4000	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
		2004 04 (Winter)	420	120	130	75.0	44.0	5300	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
		2004 02 (Summer)	440	130	140	78.0	42.0	6000	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	17.0 J	< 31.0	< 31.0	< 31.0	< 31.0 J	< 31.0
		2004 01 (Spring)	650 J	200 J	170 J	130 J	74.0 J	6100	< 50.0	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.0	< 10.0	< 5.0
		2003 04 (Winter)	400	150	180	130	81.0	4900 J	< 120	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 12.0	< 25.0	< 12.0
		2003 03 (Fall)	520	150	160	110	75.0	4300	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	330 J	120 J	140 J	37.0 J	64.0 J	4200 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	460	140	130	96.0	49.0	4600 J	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	13.0	< 13.0 UJ	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
		2002 04 (Winter)	190	84.0	130	87.0	59.0	5000	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
		2002 03 (Fall)	510	150	120	99.0	64.0	3200	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
	M25-02	2007 01 (Spring)	< 0.50	0.10 J	0.060 J	< 0.50	< 0.50	1.2 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	0.10 J	0.10 J	0.080 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.20 J	0.20 J	< 0.50	< 0.50	< 0.50	0.70 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 0.50	0.26 J	0.28 J	< 1.0	0.23 J	3.8	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 0.50	0.23 J	< 1.0	< 1.0	< 1.0	2.1	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 0.50	< 1.0	< 1.0	< 1.0	0.24 J	4.5	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	0.10 J	0.10 J	0.10 J	0.20 J	0.40 J	0.90 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.20 J	< 0.50	< 0.20 J	< 0.50	0.30 J	3.5	< 0.50	0.80	8.6	< 0.20 J	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-02	2002 03 (Fall)	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 140	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
	M25-04	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	0.20 J	0.40 J	0.10 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M25-05	2007 01 (Spring)	160	62.0	110	61.0	50.0	770	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2006 03 (Fall)	170	71.0	96.0	54.0	41.0	1200	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1
		2006 01 (Spring)	160	51.0	110	51.0	45.0	600	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.2 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2005 02 (Summer)	160	60.0	92.0	46.0	37.0	1100	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
		2005 01 (Spring)	170	58.0	78.0	37.0	29.0	1300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2004 04 (Winter)	160	49.0	66.0	32.0	26.0	1500	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
		2004 02 (Summer)	160	50.0	76.0	37.0	29.0	1800	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 J	< 10.0
		2004 01 (Spring)	140	54.0	92.0	54.0	42.0	2000	< 25.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.5	< 5.0	< 2.5
		2003 04 (Winter)	200 J	79.0 J	120 J	92.0 J	61.0 J	2200	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	190	58.0	77.0	53.0	39.0	2600	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	180	71.0	98.0	31.0	46.0 J	2000	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	140 J	70.0 J	92.0 J	67.0 J	44.0 J	1800 J	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	3.6 J	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-05	2002 04 (Winter)	170	58.0	56.0	43.0	22.0	2500	< 5.0 UJ	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2002 03 (Fall)	150	72.0	78.0	51.0	36.0	1500	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M25-06	2007 01 (Spring)	0.30 J	< 0.50	0.10 J	< 0.50	< 0.50	0.70 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	0.70	< 0.50	0.20 J	< 0.50	0.10 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.60 J	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	3.2 J	0.30 J	1.0 J	0.50 J	0.40 J	27.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	1.6	< 0.50	0.60	0.30 J	0.30 J	26.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	7.4	0.70 J	1.5 J	0.70 J	0.60 J	31.0	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	3.8	0.40 J	1.1	0.60	0.50 J	42.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	M25-07	2007 01 (Spring)	0.10 J	< 0.50	0.090 J	< 0.50	< 0.50	0.90 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	0.50	< 0.50	0.20 J	< 0.50	< 0.50	0.80 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.20 J	< 0.50	0.10 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	0.40 J	< 0.50	0.20 J	< 0.50	< 0.50	6.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.40 J	< 0.50	0.20 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.40 J	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 02 (Summer)	2.4	< 1.0	0.50 J	< 1.0	< 1.0	5.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0
	M25-08	2007 01 (Spring)	< 0.50	0.20 J	0.050 J	0.20 J	0.20 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.10 J	< 0.50	< 0.50	0.30 J	0.60	3.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0
	M25-09	2007 01 (Spring)	0.80	0.30 J	1.1	0.20 J	0.40 J	29.0	4.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	1.2	0.40 J	1.7	0.40 J	0.80	51.0	5.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	5.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	1.1	0.30 J	1.2	0.60	0.50	51.0	4.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-09	2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	4.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	0.10 J	0.90	0.40 J	0.40 J	18.0	3.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	12.0	1.3	5.8	2.8	2.6	230	3.2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3 J	< 1.3
	P181-MW45	2007 01 (Spring)	150	48.0	110	75.0	49.0	3100	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
		2006 03 (Fall)	89.0	21.0	77.0	39.0	32.0	1900	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2006 01 (Spring)	84.0	25.0	84.0	49.0	35.0	1500	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
		2005 02 (Summer)	130	36.0	92.0	52.0	44.0	2000	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
		2005 01 (Spring)	76.0	21.0	63.0	33.0	27.0	840	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2004 04 (Winter)	130	29.0	92.0	49.0	44.0	2200	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2004 02 (Summer)	120	36.0	99.0	55.0	41.0	2000	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3 J	< 6.3
		2004 01 (Spring)	77.0	22.0	56.0	33.0	28.0	1400	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.0	< 10.0	< 5.0
		2003 04 (Winter)	160 J	44.0 J	120 J	87.0 J	64.0 J	3000 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	120	25.0	83.0	39.0	34.0	1200	< 5.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	140 J	40.0 J	92.0 J	28.0 J	44.0 J	1900 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	150	47.0	110	67.0	52.0	2300	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
		2002 04 (Winter)	160	57.0	120	75.0	54.0	2700	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3 UJ	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
		2002 03 (Fall)	140	40.0	80.0	48.0	38.0	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	150	47.0	77.0	57.0	40.0	2700	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	P181-MW46	2007 01 (Spring)	52.0	14.0	95.0	42.0	40.0	320	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	24.0	5.8	55.0	22.0	20.0	270	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2006 01 (Spring)	31.0	16.0	93.0	36.0	35.0	300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	33.0	9.8	68.0	31.0	30.0	380	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 01 (Spring)	17.0	9.0	83.0	33.0	33.0	210	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	22.0 J	7.2 J	92.0 J	35.0 J	33.0 J	270 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	29.0	8.5	75.0	31.0	29.0	390	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	1.2 J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2004 01 (Spring)	26.0	14.0	96.0	36.0	35.0	540	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	26.0 J	8.4 J	96.0 J	42.0 J	39.0 J	710 J	0.62 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW46	2003 03 (Fall)	25.0	11.0	61.0 J	32.0	33.0	380	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	18.0 J	6.9 J	82.0 J	16.0 J	34.0 J	490 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	52.0	21.0	120	49.0	46.0	1400	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2002 04 (Winter)	120	68.0	220	87.0	79.0	2600	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2 UJ	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2002 03 (Fall)	64.0	33.0	120	49.0	45.0	1200	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2002 02 (Summer)	49.0	23.0	63.0	26.0	25.0	1100	4.8	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
	P181-MW47	2007 01 (Spring)	550	33.0	32.0	29.0	20.0	2400	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	7.5 J	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
		2006 03 (Fall)	510	32.0	24.0	< 37.0	12.0 J	2800	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2006 01 (Spring)	640	37.0	38.0	30.0	22.0	2300	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
		2005 02 (Summer)	490	27.0	29.0	25.0	19.0	2700	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2004 04 (Winter)	720	47.0	39.0	33.0	21.0	2700	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2004 02 (Summer)	390	16.0 J	23.0	19.0	15.0 J	2200	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2003 04 (Winter)	570 J	27.0 J	30.0 J	36.0 J	26.0 J	3100 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	480 J	32.0 J	30.0 J	17.0 J	24.0 J	1900 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	480	39.0	32.0	35.0	24.0	2200	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 UJ	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2002 02 (Summer)	580	43.0	35.0	37.0	27.0	2500	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
	PW-12	2007 01 (Spring)	1.2	0.20 J	5.0	1.9	4.1	0.90 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	2.4	0.90	4.8	2.3	3.0	1.8 J	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	0.70	0.20 J	0.90	0.50	0.60	1.4 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	1.2	0.50	6.6	3.6	6.3	5.1	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	6.7	1.3	3.4	1.8	2.1	19.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.70 J	< 1.0	4.8	2.4	3.3	7.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	20.0	1.7	8.0	5.1	5.6	16.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	19.0	4.0	5.8	4.4	3.9	160	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	3.0	0.58 J	5.9	3.4	4.8	29.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	30.0	2.1	8.1	5.2	6.7	43.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	29.0 J	2.7 J	9.1 J	2.6 J	7.0 J	84.0 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	PW-12	2003 01 (Spring)	6.1	0.80	5.8	3.4	3.7	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	9.8	1.1	5.6	2.7	3.5	24.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	20.0	1.7	4.3	2.5	2.7	38.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	27.0	3.2	3.5	2.9	3.0	130	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-16	2002 02 (Summer)	4.6	0.50 J	0.80	0.90	0.90	28.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-16R	2007 01 (Spring)	1.1	< 0.50	0.50	0.40 J	0.20 J	9.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	2.7	< 0.50	0.70	0.90	< 0.50	16.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	2.5	0.10 J	0.90	0.60	0.30 J	18.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	14.0	0.40 J	2.1	1.3	0.60	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	11.0	0.90	1.1	0.90	0.50	44.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-35	2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	2.3	1.6	3.6	9.0	21.0	55.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	22.0	2.6	14.0	8.5	12.0	320	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	23.0	1.8	11.0	3.8	9.3	330	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	15.0	1.4	8.4	6.3	7.4	220	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2002 04 (Winter)	8.2	1.1	2.0	4.1	5.2	110	< 0.50	1.8	14.0	0.40 J	2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	28.0	3.7	9.6	15.0	30.0	230	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	3.3	1.2	1.5	4.3	8.8	47.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-35R	2004 04 (Winter)	< 0.50	< 0.50	0.10 J	< 0.50	0.20 J	1.2 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	4.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	S-35R-2	2007 01 (Spring)	19.0	4.7 J	28.0	15.0	11.0	1000	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
		2006 03 (Fall)	0.80	0.20 J	0.30 J	0.70	0.20 J	4.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	5.7	1.5 J	8.7	4.4	3.5	340	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	3.5 J	0.50 J	2.0 J	1.8 J	1.5 J	32.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	15.0	4.3	23.0	12.0	9.2	620	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-3

Groundwater Sample Analytical Results Volatile Organic Compounds at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D-02	2004 04 (Winter)	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	1.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	0.60	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D-02R	2007 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2007 01 (Spring)	310 J	420 J	17.0 J	3.0 J	5.9 J	2.9 J	5.9 J	1.3 J	9.4 J	4.5 J	22.0 J	65.0 J	3.6 J	5500 J	110 J	22.0 J
		2006 03 (Fall)	290 J	450 J	8.8 J	0.26 J	0.14 J	0.10 J	0.18 J	0.040 J	0.29 J	0.16 J	9.6 J	71.0 J	0.11 J	5500 J	93.0 J	7.7 J
		2006 01 (Spring)	300 J	390 J	11.0 J	1.4 J	1.9 J	0.91 J	2.3 J	0.49 J	3.8 J	2.2 J	14.0 J	64.0 J	1.7 J	4900 J	86.0 J	13.0 J
		2005 02 (Summer)	280 J	470 J	10.0 J	0.68 J	0.72 J	0.38 J	0.80 J	0.16 J	1.1 J	0.69 J	13.0 J	70.0 J	0.33 J	5600 J	94.0 J	11.0 J
		2004 04 (Winter)	250	560	9.4	0.28	0.19	0.11 J	< 0.19	< 0.090	0.36	< 0.19	8.7	86.0	0.11	6200	110	7.7
		2004 02 (Summer)	110	570	11.0	1.6	2.2	1.8 J	2.7	0.81 J	4.1	14.0	15.0	67.0	1.9	5700	90.0	16.0
		2003 04 (Winter)	110	460	13.0	2.3	5.2	2.5	3.9	1.4	7.6	< 0.96	20.0	51.0	3.5	4300	89.0	16.0
		2003 02 (Summer)	120	420	13.0 J	1.4	2.1	1.5	1.7	0.71	4.6	< 0.19	29.0	54.0	1.6	4100	88.0	16.0
		2002 04 (Winter)	110	340 J	4.6 J	0.37 J	0.39 J	0.33 J	0.51 J	0.16 J	0.57 J	0.59 J	5.1 J	40.0	0.51 J	4400	49.0	4.8 J
		2002 03 (Fall)	63.0	340	16.0	2.5	3.3	2.0	3.1	0.85	6.8	3.0	23.0	50.0	4.2	3600	110	25.0
	M25-02	2007 01 (Spring)	< 3.8	< 1.9	2.9	0.22	0.080 J	0.040 J	0.090 J	0.020 J	0.090 J	< 0.19	6.3	< 0.19	0.0060 J	0.22 J	0.42	10.0
		2006 03 (Fall)	< 0.96	< 1.9	0.30	0.25	0.070 J	0.050 J	0.080 J	0.020 J	0.17	0.10 J	7.6	< 0.19	0.060 J	0.16 J	0.44	12.0
		2006 01 (Spring)	44.0	< 1.9	0.40	0.21	0.070 J	0.050 J	< 0.19	0.0090 J	0.11	< 0.19	5.3	< 0.19	0.050 J	< 0.95	0.33	8.8
		2005 02 (Summer)	< 4.8	< 1.9	< 0.10	0.26	0.050 J	< 0.19	0.010 J	< 0.10	0.11	< 0.19	7.5	< 0.19	< 0.10	< 0.95	0.44	12.0
		2004 04 (Winter)	3.7 J	< 1.9	0.19 J	0.17 J	< 0.10	< 0.19	< 0.19	< 0.10	0.13 J	< 0.19	6.2 J	< 0.19	< 0.10	< 0.97	1.6 J	9.4 J
		2004 02 (Summer)	< 3.8	< 7.6	0.51	< 0.38	< 0.38	< 0.76	< 0.76	< 0.38	0.41	< 0.76	4.8	< 0.76	< 0.38	3.1 J	< 0.38	8.2
		2003 04 (Winter)	6.0	4.5	0.28 J	0.14	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	5.3	< 0.19	< 0.19	3.2	< 0.58	6.9
		2003 02 (Summer)	5.8	5.5	< 0.66	0.15	< 0.090	< 0.19	< 0.19	< 0.090	0.19	< 0.19	9.3	< 0.19	< 0.19	5.1	0.65	7.5
		2002 04 (Winter)	4.7	4.2	0.57	0.18	< 0.090	< 0.19	< 0.19	< 0.090	0.17	< 0.19	2.4	< 0.19	< 0.090	4.3	0.54	3.9
		2002 03 (Fall)	3.1	3.4	0.61	0.21	< 0.10	< 0.19	< 0.19	< 0.10	0.21	< 0.19	3.6	< 0.19	< 0.10	2.8	0.55	6.1
	M25-04	2007 01 (Spring)	< 0.94	< 1.9	0.030 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.030 J	< 0.038	< 0.090	< 0.94	< 0.090	0.050 J
		2006 03 (Fall)	< 0.95	< 1.9	< 0.10	0.010 J	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.060 J
		2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.020 J
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.030 J
		2004 04 (Winter)	< 0.97 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.97 UJ	< 0.10 UJ	< 0.10 UJ
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)	< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20 UJ	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.30 UJ
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	17.0	< 0.57	< 0.28

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-04	2002 04 (Winter)	< 0.99	< 2.0	0.17	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.44	< 0.20	< 0.10	< 0.99	0.36	0.31
		2002 03 (Fall)	< 0.94	< 1.9	0.10	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.24	< 0.19	< 0.090	0.77 J	0.35	0.18
	M25-05	2007 01 (Spring)	66.0 J	120 J	2.1 J	0.040 J	0.050 J	0.020 J	< 0.19	0.010 J	0.030 J	0.040 J	2.0 J	5.6 J	< 0.10	620 J	22.0 J	1.4 J
		2006 03 (Fall)	71.0 J	160 J	1.9 J	0.030 J	< 0.10	0.020 J	0.060 J	< 0.10	0.030 J	0.070 J	1.9 J	5.3 J	0.040 J	1400 J	21.0 J	1.3 J
		2006 01 (Spring)	51.0 J	140 J	1.5 J	0.020 J	< 0.10	< 0.19	< 0.19	< 0.10	0.020 J	< 0.19	1.6 J	4.9 J	< 0.10 UJ	610 J	17.0 J	1.2 J
		2005 02 (Summer)	61.0 J	140 J	1.7 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	1.8 J	5.9 J	< 0.10	830 J	17.0 J	1.2 J
		2005 01 (Spring)	13.0 J	47.0 J	0.40 J	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.42	1.5 J	< 0.10	380 J	4.3 J	0.46
		2004 04 (Winter)	70.0	170	1.6	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	1.5	10.0	< 0.10	1600	18.0	1.2
		2004 02 (Summer)	< 0.95	100	< 0.10	0.040 J	< 0.10	< 0.19	< 0.19	< 0.10	0.040 J	< 0.19	1.5	13.0	< 0.10	2300	22.0	1.3
		2004 01 (Spring)	28.0	94.0	0.81	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	1.2	6.9	< 0.19	1300	9.8	< 0.28
		2003 04 (Winter)	36.0	78.0	1.1	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	1.3 J	8.7	< 0.20	1900	13.0	0.58
		2003 03 (Fall)	33.0	72.0	1.4	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	1.4	9.3	< 0.19	< 1700 UJ	14.0	1.3
		2003 02 (Summer)	36.0	180	1.3	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	2.4	9.8	< 0.19	1900	13.0	1.1
		2003 01 (Spring)	31.0	< 9.6	1.1	< 0.48	< 0.48	< 0.96	< 0.96	< 0.48	< 0.48	< 0.96	1.6	9.0	< 0.48	1900	10.0	1.2
		2002 04 (Winter)	53.0 J	140 J	2.1 J	0.14 J	0.090 J	< 0.19	< 0.19	< 0.090	0.14 J	< 0.19	2.7 J	16.0 J	< 0.090	2200	26.0	2.4 J
		2002 03 (Fall)	21.0 J	140 J	2.4 J	0.090 J	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	3.4 J	12.0 J	< 0.090	1500	30.0	3.0 J
	M25-06	2007 01 (Spring)	4.2	< 1.9	0.10	0.010 J	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.19	0.24	< 0.10	0.62 J	0.37	0.14
		2006 03 (Fall)	4.0	< 1.9	0.040 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.13 J	0.15 J	< 0.10	0.50 J	0.18	0.080 J
		2006 01 (Spring)	7.4	1.4 J	0.14	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.24	0.43	< 0.10 UJ	0.67 J	1.2	0.20
		2005 02 (Summer)	9.2	< 1.9	0.19	< 0.10	0.010 J	< 0.19	0.030 J	< 0.10	< 0.10	< 0.19	0.45	0.50	0.040 J	6.8	2.1	0.36
		2005 01 (Spring)	5.9	< 1.9	0.17 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.20	0.56	< 0.10	22.0	1.9	0.22
		2004 04 (Winter)	14.0 J	< 1.9	0.26 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.40 J	1.3 J	< 0.090	51.0 J	3.1 J	0.41 J
		2004 02 (Summer)	19.0	< 1.9	0.56	< 0.10	0.070 J	< 0.19	< 0.19	< 0.10	0.10	< 0.19	0.94	2.7	< 0.10	16.0	7.4	0.89
	M25-07	2007 01 (Spring)	5.7	0.41 J	1.1	0.070 J	0.040 J	0.020 J	0.090 J	< 0.10	0.070 J	0.050 J	2.4	< 0.19	< 0.10	0.49 J	4.3	2.6
		2006 03 (Fall)	12.0	0.70 J	0.93	0.060 J	< 0.10	< 0.19	< 0.19	< 0.10 UJ	0.040 J	< 0.19	2.5	< 0.19	< 0.10 UJ	0.80 J	5.6	2.5
		2006 01 (Spring)	11.0	0.24 J	0.81	0.040 J	< 0.10	0.020 J	0.050 J	< 0.10	0.040 J	< 0.19	1.8	< 0.19	0.040 J	0.63 J	4.7	1.7
		2005 02 (Summer)	8.9	< 1.9	1.0	0.030 J	< 0.10	< 0.19	< 0.19	< 0.10	0.030 J	< 0.19	2.8	< 0.19	< 0.10	7.6	6.2	3.0
		2005 01 (Spring)	3.7 J	< 1.9 UJ	0.55	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19 UJ	1.6 J	< 0.19	< 0.10	1.5 J	4.5	1.6

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-07	2004 04 (Winter)	9.2 J	< 1.9	1.0 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	0.10 J	< 0.19	3.6 J	0.82 J	< 0.090	3.6 J	7.5 J	3.9 J
		2004 02 (Summer)	24.0	< 1.9	2.3	0.22	0.24	0.18 J	0.29	0.080 J	0.29	1.5	6.9	< 0.19	0.21	17.0	20.0	7.5
	M25-08	2007 01 (Spring)	1.5	< 1.9	0.060 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.14 J	< 0.060	< 0.10	< 0.95	0.030 J	0.10
		2006 03 (Fall)	0.59 J	< 1.9	0.030 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.13 J	< 0.19	< 0.10	< 0.95	0.030 J	0.11
		2006 01 (Spring)	0.67 J	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.090 J	< 0.20	< 0.10	< 0.98	< 0.10	0.080 J
		2005 02 (Summer)	0.30 J	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.10 J	< 0.19	< 0.10	< 0.96	< 0.10	0.090 J
		2005 01 (Spring)	4.0 J	< 1.9	0.22 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.85	< 0.19	< 0.10	2.6 J	0.15 J	0.90
		2004 04 (Winter)	1.3	< 1.9	0.11	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.31	< 0.19	< 0.090	0.93 J	< 0.090	0.37
		2004 02 (Summer)	4.0	< 1.9	0.54	0.16	0.25	0.21	0.33	0.090 J	0.19	1.9	3.3	< 0.19	0.28	4.1	0.79	3.4
	M25-09	2007 01 (Spring)	18.0	5.8	0.53	0.090 J	0.090 J	0.050 J	0.14 J	0.030 J	0.080 J	0.080 J	2.4	2.9	0.050 J	20.0	0.25	1.9
		2006 03 (Fall)	26.0	7.3	0.60	0.10	0.060 J	0.050 J	0.090 J	0.020 J	0.10	0.090 J	3.5	3.5	0.070 J	49.0	0.28	3.0
		2006 01 (Spring)	3.1	< 2.0	0.33	0.080 J	0.050 J	0.030 J	< 0.20	< 0.10	0.080 J	< 0.20	1.5	1.0	0.050 J	< 1.0	0.30	1.3
		2005 02 (Summer)	20.0	8.5	1.7	0.16	0.12	0.040 J	0.11 J	0.010 J	0.15	0.14 J	3.4	4.4	0.10	59.0	1.8	3.0
		2004 04 (Winter)	9.1	< 1.9	1.6	0.14	< 0.090	< 0.19	< 0.19	< 0.090	0.16	< 0.19	3.5	1.9	< 0.090	12.0	11.0	3.3
		2004 02 (Summer)	46.0 J	41.0 J	5.4 J	0.29 J	0.16 J	0.17 J	0.22 J	< 0.10	0.30 J	< 0.19	10.0 J	18.0 J	0.13 J	340 J	54.0 J	9.8 J
	P181-MW45	2007 01 (Spring)	160 J	190 J	7.3 J	0.19 J	0.050 J	0.020 J	< 0.20	0.010 J	0.15 J	< 0.20	8.6 J	17.0 J	< 0.10	2400 J	57.0 J	6.8 J
		2006 03 (Fall)	160 J	150 J	6.5 J	0.16 J	0.030 J	0.030 J	0.070 J	0.010 J	0.14 J	0.070 J	8.8 J	17.0 J	0.030 J	2200 J	56.0 J	6.5 J
		2006 01 (Spring)	140 J	170 J	5.3 J	0.13 J	< 0.10	< 0.20	< 0.20	< 0.10	0.11 J	< 0.20	6.5 J	15.0 J	< 0.10	2000 J	44.0 J	5.2 J
		2005 02 (Summer)	170 J	190 J	8.8 J	0.19 J	< 0.10	< 0.19	< 0.19	< 0.10	0.15 J	< 0.19	10.0 J	17.0 J	< 0.10	2700 J	74.0 J	8.2 J
		2005 01 (Spring)	56.0 J	< 2.0	4.3 J	0.080 J	< 0.10	< 0.20	< 0.20	< 0.10	0.080 J	< 0.20 UJ	6.0 J	7.8 J	< 0.10	1900 J	44.0	5.2 J
		2004 04 (Winter)	130	160	7.0	0.16	< 0.10	< 0.20	< 0.20	< 0.10	0.18	< 0.20	8.4	18.0	< 0.10	2600	69.0	7.7
		2004 02 (Summer)	84.0 J	< 19.0	7.8 J	0.22 J	< 0.10	< 0.19	< 0.19	< 0.10	0.23 J	< 0.19	9.2 J	17.0 J	< 0.10	2900 J	78.0 J	8.8 J
		2004 01 (Spring)	78.0	130	4.7	0.10	< 0.10	< 0.20	< 0.20	< 0.10	0.12 J	< 0.20	8.5	12.0	< 0.20	1900	47.0 J	5.0
		2003 04 (Winter)	91.0	95.0	6.9	0.15	< 0.090	< 0.19	< 0.19	< 0.090	0.18 J	< 0.19	11.0	14.0	< 0.19	1900	62.0	6.4
		2003 03 (Fall)	70.0	74.0	6.3	0.087 J	< 0.090	< 0.19	< 0.19	< 0.090	0.13 J	< 0.19	7.8	11.0	< 0.19	1700 J	50.0	7.5
		2003 02 (Summer)	100	220	7.4	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	18.0	14.0	< 0.19	2200	65.0	8.7 J
		2003 01 (Spring)	97.0	200 J	6.9	0.50	< 0.47	< 0.94	< 0.94	< 0.47	0.58	< 0.94	8.0 J	18.0 J	< 0.47	2400	63.0	7.2 J
		2002 04 (Winter)	56.0 J	98.0 J	4.4 J	0.19 J	0.090 J	< 0.19	< 0.19	< 0.090	0.20 J	< 0.19	5.5 J	11.0 J	< 0.090	1500	41.0	4.9 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW45	2002 03 (Fall)	28.0	40.0	3.0	0.11	< 0.090	< 0.19	< 0.19	< 0.090	0.11	< 0.19	3.2	6.1	< 0.090	1200	27.0	3.0
		2002 02 (Summer)	43.0	190	5.2	0.10	< 0.090	< 0.19	< 0.19	< 0.090	0.12	< 0.19	5.4	12.0	< 0.090	2100	48.0	5.1
	P181-MW46	2007 01 (Spring)	110 J	89.0 J	3.9 J	0.17 J	0.060 J	0.030 J	< 0.19	0.020 J	0.14 J	< 0.19	7.9 J	6.5 J	< 0.10	350 J	21.0 J	7.6 J
		2006 03 (Fall)	130 J	75.0 J	2.6 J	0.22 J	0.030 J	< 0.19	< 0.19	0.010 J	0.18 J	< 0.19	11.0 J	6.8 J	< 0.10	300 J	18.0 J	11.0 J
		2006 01 (Spring)	110 J	98.0 J	2.7 J	0.20 J	0.030 J	0.040 J	< 0.20	< 0.10	0.17 J	< 0.20	8.3 J	7.4 J	< 0.10	430 J	15.0 J	8.3 J
		2005 02 (Summer)	80.0	60.0	2.1	0.17	< 0.10	< 0.19	< 0.19	< 0.10	0.12	< 0.19	8.6	4.1	< 0.10	330	16.0	8.3
		2005 01 (Spring)	59.0 J	49.0 J	1.9 J	0.20	0.050 J	< 0.19	< 0.19	< 0.10	0.16	< 0.19	8.1	3.7 J	< 0.10	200 J	13.0 J	8.1
		2004 04 (Winter)	73.0 J	130 J	3.1 J	0.19 J	< 0.10	< 0.20	< 0.20	< 0.10	0.18 J	< 0.20	8.1 J	6.4 J	< 0.10	260 J	17.0 J	8.7 J
		2004 02 (Summer)	49.0 J	130 J	2.7 J	0.16 J	< 0.090	< 0.19	< 0.19	< 0.090	0.17 J	< 0.19	6.9 J	6.1 J	< 0.090	490 J	16.0 J	7.1 J
		2004 01 (Spring)	59.0	75.0	2.4	0.12	< 0.090	< 0.19	< 0.19	< 0.090	0.11 J	< 0.19	7.2	5.1	< 0.19	390	14.0	5.5
		2003 04 (Winter)	59.0	130	2.8	0.19	< 0.090	< 0.20	< 0.20	< 0.090	0.20	< 0.20	9.6	7.5	< 0.20	510	15.0	6.1
		2003 03 (Fall)	56.0	63.0	3.9	0.14	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	8.0	6.5	< 0.19	340 J	15.0	6.9
		2003 02 (Summer)	61.0	140	3.6	0.15	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	11.0	6.9	< 0.19	480	16.0 J	5.8
		2003 01 (Spring)	71.0	150 J	2.8 J	0.52	< 0.47	< 0.94	< 0.94	< 0.47	0.60	< 0.94	5.4 J	11.0 J	< 0.47	1400	18.0	5.4
		2002 04 (Winter)	91.0 J	170 J	3.2 J	0.34 J	0.25 J	0.28 J	0.34 J	0.13 J	0.38 J	0.42 J	4.9 J	12.0 J	0.29 J	1900	25.0	5.0 J
		2002 03 (Fall)	58.0 J	63.0 J	2.9 J	0.59 J	0.68 J	0.41 J	0.55 J	0.18 J	0.91 J	0.61 J	6.1 J	8.6 J	0.76 J	1300	16.0	6.8 J
		2002 02 (Summer)	43.0	79.0	2.6	0.56	0.31	0.19 J	0.25	0.070 J	0.60	< 0.19	6.5	7.5	0.45	910	10.0	7.2
	P181-MW47	2007 01 (Spring)	120 J	170 J	7.2 J	0.23 J	0.060 J	0.040 J	0.080 J	0.020 J	0.20 J	< 0.19	9.3 J	27.0 J	< 0.10	2300 J	55.0 J	8.0 J
		2006 03 (Fall)	140 J	170 J	7.3 J	0.23 J	0.040 J	0.040 J	0.060 J	0.010 J	0.20 J	< 0.19	9.8 J	31.0 J	< 0.10	2500 J	59.0 J	8.1 J
		2006 01 (Spring)	120 J	130 J	5.1 J	0.14 J	< 0.10	0.010 J	< 0.19	< 0.10	0.13 J	< 0.19	6.5 J	23.0 J	< 0.10	2100 J	41.0 J	5.4 J
		2005 02 (Summer)	130 J	220 J	8.3 J	0.24 J	0.010 J	< 0.19	< 0.19	< 0.10	0.19 J	< 0.19	9.9 J	34.0 J	< 0.10	2800 J	64.0 J	8.9 J
		2005 01 (Spring)	43.0 J	100 J	5.7 J	0.17 J	< 0.10	< 0.19	< 0.19	< 0.10	0.15 J	< 0.19	7.1 J	23.0 J	< 0.10	2100 J	47.0 J	6.2 J
		2004 04 (Winter)	100	250	8.2	0.23	< 0.10	< 0.19	< 0.19	< 0.10	0.22	< 0.19	9.6	39.0	< 0.10	3200	73.0	9.0
		2004 02 (Summer)	60.0 J	170 J	5.7 J	0.16 J	< 0.090	< 0.19	< 0.19	< 0.090	0.15 J	< 0.19	6.6 J	27.0 J	< 0.090	2400 J	54.0 J	6.4 J
		2004 01 (Spring)	50.0	97.0	5.0	0.16	< 0.090	< 0.19	< 0.19	< 0.090	0.17 J	< 0.19	8.7	21.0	< 0.19	1500	47.0 J	5.7
		2003 04 (Winter)	30.0	100	5.3	0.20	< 0.090	< 0.19	< 0.19	< 0.090	0.22	< 0.19	9.1	18.0	< 0.19	1100	46.0	5.5
		2003 03 (Fall)	56.0	58.0	4.7	0.098	< 0.090	< 0.19	< 0.19	< 0.090	0.12 J	< 0.19	5.8	19.0	< 0.19	1600 J	38.0	5.5
		2003 02 (Summer)	49.0	220	6.3	0.16	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	15.0	27.0	< 0.19	2000	49.0	6.8

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW47	2003 01 (Spring)	68.0 J	150 J	5.5	0.57	0.61	< 0.94	< 0.94	< 0.47	0.64	< 0.94	7.3 J	28.0 J	< 0.47	1500	48.0	6.9
		2002 04 (Winter)	37.0 J	120 J	3.6 J	0.23 J	0.11 J	< 0.19	< 0.19	< 0.10	0.21 J	< 0.19	4.8 J	19.0 J	< 0.10	1600	33.0	4.6 J
		2002 03 (Fall)	22.0 J	160 J	4.5 J	0.23 J	0.090 J	0.13 J	< 0.19	< 0.090	0.21 J	< 0.19	6.6 J	24.0	0.13 J	1800	38.0	6.2 J
		2002 02 (Summer)	17.0	290	5.0	0.20	< 0.10	< 0.20	< 0.20	< 0.10	0.18	< 0.20	7.4	23.0	< 0.10	2200	44.0	7.2
	PW-12	2007 01 (Spring)	260	18.0	1.9	0.16	0.080 J	0.040 J	0.090 J	0.020 J	0.12	0.050 J	5.5	< 0.19	< 0.090	< 0.94	4.9	4.7
		2006 03 (Fall)	23.0	15.0	1.8	0.11	0.040 J	0.040 J	< 0.19	< 0.10	0.090 J	< 0.19	4.4	< 0.19	< 0.10	< 0.96	4.9	3.6
		2006 01 (Spring)	14.0	15.0	1.3	0.090 J	0.030 J	0.020 J	< 0.20	< 0.10	0.070 J	< 0.20	2.8	< 0.20	< 0.10	13.0	3.1	2.4
		2005 02 (Summer)	37.0	42.0	3.8	0.22	< 0.10	< 0.19	< 0.19	< 0.10	0.15	< 0.19	9.5	< 0.19	< 0.10	6.3	8.7	8.1
		2005 01 (Spring)	17.0 J	19.0 J	2.4 J	0.060 J	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	4.1	1.0 J	< 0.10	35.0 J	5.4 J	3.5
		2004 04 (Winter)	34.0 J	43.0 J	3.9 J	0.15 J	< 0.090	< 0.19	< 0.19	< 0.090	0.14 J	0.31 J	7.2 J	2.9 J	< 0.090	< 0.94	9.2 J	6.7 J
		2004 02 (Summer)	30.0 J	53.0	2.6	0.090 J	< 0.090	< 0.19	< 0.19	< 0.090	0.080 J	< 0.19	4.0	< 0.19 J	< 0.090	10.0	6.0	3.8
		2004 01 (Spring)	23.0	45.0	3.1	0.19	< 0.090	< 0.19	< 0.19	< 0.090	0.18 J	< 0.19	8.5	2.6	< 0.19	170	7.3	5.7
		2003 04 (Winter)	24.0	39.0	3.0	0.13	< 0.090	< 0.19	< 0.19	< 0.090	0.13 J	< 0.19	7.4	< 0.19	< 0.19	28.0	6.0	4.4
		2003 03 (Fall)	23.0	42.0	3.3	0.097	< 0.090	< 0.19	< 0.19	< 0.090	0.098 J	< 0.19	5.9	< 0.19	< 0.19	40.0 J	6.3	4.8
		2003 02 (Summer)	20.0	57.0 J	2.3	0.070 J	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	6.5	< 0.20 UJ	< 0.20	91.0	4.9	3.0
		2003 01 (Spring)	8.7	24.0	0.75	0.12	0.12	< 0.20	< 0.20	< 0.10	0.13	< 0.20	1.1	1.0	< 0.10	23.0	2.4	0.94
		2002 04 (Winter)	19.0	40.0	2.0	0.23	0.13	< 0.20	< 0.20	< 0.10	0.21	< 0.20	4.7	1.9	< 0.10	24.0	5.8	4.5
		2002 03 (Fall)	13.0	23.0	1.7	0.21	0.12	< 0.19	< 0.19	< 0.10	0.20	< 0.19	3.9	< 0.19	< 0.10	12.0	4.7	3.8
		2002 02 (Summer)	20.0	46.0	3.0	0.19	< 0.090	< 0.19	< 0.19	< 0.090	0.17	< 0.19	7.6	< 0.19	< 0.090	45.0	7.9	7.6
	S-16	2002 02 (Summer)	15.0	21.0	0.21	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	1.3	< 0.19	< 0.090	27.0	1.1	1.3
	S-16R	2007 01 (Spring)	25.0	5.5	0.30	0.020 J	0.040 J	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.51	1.6	< 0.090	10.0	3.1	0.41
		2006 03 (Fall)	13.0	7.9	0.27	0.030 J	0.030 J	0.030 J	0.080 J	< 0.10	< 0.10	< 0.19	0.53	1.7	0.050 J	14.0	2.8	0.44
		2006 01 (Spring)	10.0	8.9	0.30	0.13	0.24	0.17 J	0.35	0.060 J	0.15	0.33	0.87	1.4	0.26	19.0	2.9	0.77
		2005 02 (Summer)	9.6	< 1.9	0.28	0.040 J	0.070 J	< 0.19	0.11 J	< 0.10	0.030 J	0.12 J	0.73	0.99	0.11	17.0	2.6	0.63
		2005 01 (Spring)	8.8 J	4.0 J	0.26	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19 UJ	0.55 J	1.2 J	< 0.10	27.0 J	3.3	0.52
		2004 04 (Winter)	32.0 J	11.0 J	1.1 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	2.2 J	4.9 J	< 0.10	61.0 J	12.0 J	1.9 J
	S-35	2004 02 (Summer)	0.65 J	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19 J	< 0.090	< 0.94	< 0.090	< 0.090
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	2.2	< 0.57	< 0.28

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-4

Groundwater Sample Analytical Results Polycyclic Aromatic Hydrocarbons at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs														
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	S-35	2003 04 (Winter)	59.0	14.0	1.2	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	3.6	< 0.19	< 0.19	47.0	3.3	2.2
		2003 03 (Fall)	100	91.0	2.4	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	2.7	< 0.19	< 0.19	330 J	11.0	2.3
		2003 02 (Summer)	100	37.0	1.6	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	3.4	< 0.19	< 0.19	350	6.6	1.3
		2003 01 (Spring)	63.0	< 2.0	0.57 J	< 0.10	0.13	0.16 J	< 0.20	0.11	< 0.10	< 0.20	0.72 J	3.3 J	0.16	210	3.9	0.60
		2002 04 (Winter)	48.0	< 1.9	1.1	0.14	< 0.10	< 0.19	< 0.19	< 0.10	0.15	< 0.19	2.5	1.9 J	< 0.10	< 0.95	5.4	2.7
		2002 03 (Fall)	130	79.0	1.9	0.090 J	< 0.090	< 0.19	< 0.19	< 0.090	0.090 J	< 0.19	3.8	< 0.19	< 0.090	340	4.4	3.3
		2002 02 (Summer)	24.0	20.0	0.39	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.81	< 0.19	< 0.090	2.6	0.54	0.88
	S-35R	2004 04 (Winter)	4.1 J	< 1.9	0.34 J	0.16 J	< 0.10	< 0.19	< 0.19	< 0.10	0.19 J	< 0.19	2.3 J	0.19 J	< 0.10	2.0 J	1.4 J	3.5 J
		2004 02 (Summer)	8.5 J	3.0	1.1	0.32	0.11	0.15 J	< 0.19	0.060 J	0.31	< 0.19	5.5	0.74 J	< 0.10	5.7	4.0	6.6
	S-35R-2	2007 01 (Spring)	87.0	88.0	2.1	0.41	0.36	0.19	0.40	0.090	0.42	0.28	5.1	11.0	0.16	770	11.0	7.4
		2006 03 (Fall)	18.0	< 1.9	0.46	0.15	0.090 J	0.070 J	0.12 J	0.030 J	0.16	0.12 J	2.1	< 0.19	0.080 J	7.5	1.1	3.5
		2006 01 (Spring)	40.0	37.0	2.0	0.46	0.46	0.30	0.51	0.12	0.54	0.50	5.9	6.4	0.40	300	6.4	7.3
		2005 02 (Summer)	59.0	17.0	1.7	0.14	< 0.10	< 0.19	< 0.19	< 0.10	0.14	< 0.19	3.4	< 0.19	< 0.10	40.0	7.8	4.1
		2005 01 (Spring)	27.0 J	25.0 J	7.9 J	0.92 J	0.66 J	0.44 J	0.55 J	0.16 J	1.1 J	0.48 J	17.0 J	26.0 J	0.51 J	4.6 J	60.0	14.0 J
SWBZ	D-02	2004 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	2.0	< 0.58	< 0.29
		2003 03 (Fall)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 3.7 UJ	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)	< 0.98	< 2.0	< 0.10	< 0.10	0.12	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	0.15	< 0.98	< 0.10	< 0.10
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	0.090 J	< 0.090
	D-02R	2007 01 (Spring)	0.57 J	< 1.9	0.12	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.38	0.53	< 0.10	0.38 J	1.4	0.25
		2006 01 (Spring)	0.93 J	< 1.9	0.060 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.28	0.51	< 0.10	< 0.97	0.93	0.22
		2005 02 (Summer)	0.90 J	< 1.9	0.020 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.29	0.79	< 0.10	1.5	1.3	0.23
		2005 01 (Spring)	< 0.95 UJ	< 1.9	0.10 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.30	0.43 J	< 0.10	2.3 J	1.5 J	0.28

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2007 01 (Spring)	0.21 J	5.3	**740**	< 2.0	< 5.0	5.4 J	2.2	0.30 J	< 3.0	1500	0.076 J	0.18 J	1.1 J	0.51 J	< 5.0	< 5.0	9.5 J	< 9.1	13.0 J	**17000**	**320**	**860**	**210**	**7300**
		2006 03 (Fall)	< 1.0	7.0	**1000**	< 2.0	0.089 J	5.8 J	2.5	< 10.0	< 3.0	1600	< 0.20	< 20.0	2.4 J	0.76 J	< 5.0	< 5.0	8.2 J	< 20.0	< 54.0	**21000**	**320 J**	**1000 J**	**240 J**	**8600 J**
		2006 01 (Spring)	< 1.0	7.7	**660**	0.40 J	< 5.0	3.8 J	3.5	1.6 J	< 3.0	1600	< 0.20	2.4 J	< 20.0	7.0	< 5.0	5.8	5.5 J	4.4 J	< 100	**16000**	**320**	**1000**	**230**	**7900**
		2005 02 (Summer)	0.31 J	6.2	**840**	< 2.0	1.2 J	4.9 J	3.1	< 10.0	< 3.0	1600	< 0.20	3.3 J	2.3 J	5.8	< 5.0	0.68 J	6.8 J	8.1 J	< 100	**20000**	**270**	**910**	**210**	**7000**
		2004 04 (Winter)	0.44 J	< 5.0	**730**	< 2.0	< 5.0	7.3 J	3.2	4.2 J	0.18 J	1500	0.10 J	0.59 J	11.0 J	< 5.0 UJ	< 5.0	< 5.0	8.5 J	17.0 J	5.1 J	**22000**	**330**	**1100**	**250**	**8100**
		2004 02 (Summer)	< 1.0	< 1.0	**740**	< 2.0	< 5.0	9.1 J	3.4	< 10.0	0.59 J	1700	< 0.20	< 20.0	6.0 J	< 5.0	3.1 J	< 1.0	9.3 J	< 20.0	< 50.0	**20000**	**320**	**1100**	**270**	**7900**
		2003 04 (Winter)	< 25.0 UJ	< 50.0	**822**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	1440	< 0.40	12.4 J	< 20.0	< 20.0	< 10.0	< 25.0 UJ	8.2 J	< 20.0	< 200	**22300**	**302**	**1300**	**380**	**10200**
		2003 02 (Summer)	< 50.0	15.4 J	**825 J**	1.8 J	3.2 J	8.8 J	5.3 J	2.7 J	< 10.0	**2110 J**	-	< 50.0	7.6 J	< 20.0	< 10.0	< 50.0	10.0 J	8.3 J	236 J	**25400 J**	**325**	**1040**	**276 J**	**6940 J**
		2002 04 (Winter)	0.29 J	< 5.0	**600**	0.025 J	0.22 J	6.4 J	3.3 J	9.3 J	0.26 J	**1800**	< 0.20	< 20.0	13.0 J	< 5.0	< 5.0	< 2.0	8.6 J	< 20.0	< 100	**23000**	**290**	**910**	**230**	< 0.50
		2002 03 (Fall)	< 50.0	< 5.0	330	< 2.0	< 5.0	4.7 J	4.1 J	4.8 J	< 3.0	1700	< 0.20	3.0 J	8.1 J	< 5.0 UJ	< 5.0	< 2.0	7.7 J	< 20.0	< 100	1900	7.3	23.0	**250**	190
	M25-02	2007 01 (Spring)	< 1.0	1.2 J	280	< 2.0	< 5.0	1.2 J	0.46 J	< 10.0	< 3.0	1500	< 0.20	< 20.0	4.1 J	< 5.0	< 5.0	< 5.0	10.0	< 5.7	< 100	< 96.0	120	170	51.0	1100
		2006 03 (Fall)	< 1.0	0.99 J	200	< 2.0	< 5.0	< 10.0	0.42 J	< 10.0	< 3.0	790	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 54.0	150	79.0	130	44.0	1100 J
		2006 01 (Spring)	< 1.0	0.78 J	170	0.31 J	0.64 J	< 10.0	0.31 J	1.6 J	0.29 J	1100	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	3.2 J	4.9 J	< 10000	2100	95.0	160	48.0	1100
		2005 02 (Summer)	0.13 J	< 5.0	250	< 2.0	< 5.0	< 10.0	0.47 J	< 10.0	< 3.0	1700	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	1.5 J	18.0 J	< 100	170	140	160	49.0	930
		2004 04 (Winter)	0.12 J	3.3 J	210	< 2.0	< 5.0	2.4 J	0.58 J	0.43 J	0.14 J	1200	< 0.20	< 20.0	3.5 J	**12.0 J**	< 5.0	< 5.0	5.0 J	5.3 J	3.0 J	480	130	180	53.0	1100
		2004 02 (Summer)	< 1.0	< 1.0	220	< 2.0	< 5.0	1.2 J	0.56 J	< 10.0	0.21 J	1500	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 1.0	1.5 J	< 20.0	< 50.0	180	150	200	55.0	1200
		2003 04 (Winter)	< 5.0 UJ	< 50.0	169	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	684	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	395	92.2	179	55.3	1400
		2003 02 (Summer)	< 50.0	< 50.0	243	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	955	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	2.1 J	< 200	1230	130	246	55.2	1440 J
		2002 04 (Winter)	< 50.0	3.6 J	280	< 2.0	< 5.0	< 10.0	0.79 J	1.4 J	0.041 J	1100	< 0.20	< 20.0	3.6 J	**13.0**	< 5.0	< 2.0	4.6 J	< 20.0	4.6 J	5400	140	280	66.0	2100
		2002 03 (Fall)	< 50.0	6.8	250	< 2.0	< 5.0	1.6 J	0.80 J	0.63 J	< 3.0	1100	< 0.20	< 20.0	3.9 J	5.1 J	< 5.0	< 2.0	2.8 J	< 20.0	< 100	3000	150	270	66.0	2000
	M25-04	2007 01 (Spring)	< 0.33	7.3	36.0	< 2.0	< 5.0	< 0.71	1.9	2.4 J	< 1.4	240	< 0.20	1.6 J	8.6 J	< 5.0	< 5.0	< 5.0	15.0	7.4 J	< 100	< 73.0	20.0	15.0	11.0	84.0
		2006 03 (Fall)	< 1.0	6.0	160	< 2.0	< 5.0	< 10.0	1.7	0.95 J	< 3.0	360	< 0.20	< 20.0	11.0 J	< 5.0	0.26 J	< 5.0	8.8 J	7.9 J	< 59.0	3500	44.0	67.0	28.0	550 J
		2006 01 (Spring)	0.49 J	3.5 J	39.0	< 2.0	0.25 J	< 10.0	0.31 J	9.9 J	< 3.0	99.0	< 0.20	< 20.0	20.0	< 5.0	< 5.0	< 5.0	4.9 J	9.0 J	< 10000	45.0 J	17.0	12.0	7.5	42.0 J
		2005 02 (Summer)	0.40 J	< 5.0	52.0	< 2.0	< 5.0	< 10.0	0.79 J	< 10.0	< 3.0	200	< 0.20	< 20.0	20.0	< 5.0	< 5.0	< 5.0	3.4 J	18.0 J	< 100	720	18.0	12.0	7.2	42.0
		2004 04 (Winter)	0.33 J	4.1 J	46.0	< 2.0	< 5.0	1.3 J	0.38 J	2.8 J	0.30 J	110	< 0.20	1.5 J	9.4 J	< 5.0 UJ	< 5.0	< 5.0	7.1 J	6.3 J	5.4 J	81.0 J	23.0	16.0	11.0	72.0
		2004 02 (Summer)	< 1.0	4.3	39.0	< 2.0	< 5.0	< 10.0	0.46 J	< 10.0	0.53 J	170	< 0.20	< 20.0	12.0 J	< 5.0	< 5.0	< 1.0	3.4 J	< 20.0	< 50.0	83.0 J	19.0	13.0	9.4	55.0
		2003 04 (Winter)	< 5.0 UJ	4.8 J	39.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	122	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	147	16.9	13.9	< 12.8	86.1
		2003 02 (Summer)	< 50.0	< 50.0	43.5 J	< 4.0	< 5.0	< 10.0	< 10.0	3.2 J	< 10.0	120 J	-	< 50.0	12.0 J	< 20.0	< 10.0	< 5.0	6.4 J	4.3 J	< 200	81.7 J	22.1	15.3	11.6 J	58.4 J
		2002 04 (Winter)	0.42 J	< 7.4	< 100	0.025 J	< 50.0 UJ	2.1 J	1.3 J	5.3 J	0.20 J	800	< 0.20	< 200	9.8 J	< 5.0	< 50.0	< 2.0	5.6 J	11.0 J	< 1000	4400	73.0	180	55.0	1500
		2002 03 (Fall)	< 50.0	5.2	47.0	< 2.0	< 5.0	0.86 J	1.2 J	2.6 J	< 3.0	410	< 0.20	2.4 J	9.2 J	< 5.0 UJ	< 5.0	< 2.0	3.1 J	< 20.0	< 100	500	27.0	29.0	15.0	190
	M25-05	2007 01 (Spring)	< 0.20	2.1 J	**740**	< 2.0	< 5.0	6.8 J	2.3	< 10.0	< 3.0	660	0.032 J	< 20.0	2.6 J	0.33 J	< 5.0	< 5.0	21.0	< 5.2	< 100	460	**280**	**810**	**220**	**6400**

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 9.1-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M25-05	2006 03 (Fall)	< 1.0	6.5	520	< 2.0	0.088 J	11.0	2.9	2.8 J	< 3.0	1000	< 0.20	< 20.0	2.2 J	0.64 J	< 5.0	< 5.0	16.0	< 20.0	< 56.0	12000	370 J	1000 J	270 J	9500 J
		2006 01 (Spring)	< 1.0	< 5.0	690	0.39 J	< 5.0	3.8 J	3.5	1.4 J	< 3.0	770	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	4.7 J	12.0	4.4 J	< 100	1400	290	950	250	7700
		2005 02 (Summer)	0.38 J	< 5.0	710	< 2.0	< 5.0	5.6 J	2.9	< 10.0	< 3.0	930	< 0.20	< 20.0	1.3 J	< 5.0	< 5.0	< 5.0	16.0	6.9 J	140 J	1200	260	840	220	6100
		2005 01 (Spring)	0.22 J	< 5.0	600	< 2.0	< 5.0	1.5 J	2.9	< 10.0	< 3.0	800	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	8.2 J	11.0 J	< 100	< 100	280	940	270	7800
		2004 04 (Winter)	0.36 J	< 5.0	890	< 2.0	< 5.0	6.1 J	4.1	15.0	0.40 J	1200	< 0.20	0.73 J	14.0 J	< 5.0 UJ	< 5.0	< 5.0	18.0	18.0 J	11.0 J	6200	370	1200	290	9000
		2004 02 (Summer)	0.46 J	< 1.0	860	< 2.0	< 5.0	7.2 J	3.7	< 10.0	0.46 J	1300	< 0.20	< 20.0	3.5 J	< 5.0	1.7 J	< 1.0	13.0	< 20.0	< 50.0	4600	330	1100	280	7800
		2004 01 (Spring)	2.7 J	< 50.0	613	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1270	< 1.0	25.2 J	< 20.0	< 20.0	< 10.0	< 10.0	13.5 J	< 20.0	< 200	2440	281	1050	297 J	8360
		2003 04 (Winter)	< 5.0 UJ	< 50.0	661	< 4.0	< 5.0	< 10.0	7.5 J	< 10.0	< 10.0 UJ	1300	-	< 50.0	< 20.0	< 20.0	< 10.0	-	11.6 J	< 20.0	< 200	1450	282	937	346	8310
		2003 03 (Fall)	< 5.0	7.3 J	832	< 4.0	< 5.0	< 10.0	3.9 J	< 10.0	< 10.0	1610	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	7.9 J	< 20.0	< 200	4080	317	1040	290 J	6860
		2003 02 (Summer)	< 50.0	10.7 J	600 J	< 4.0	< 5.0	4.0 J	2.2 J	< 10.0	< 10.0	1690 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	7.2 J	< 20.0	< 200	3820 J	306	926	269 J	6440 J
		2003 01 (Spring)	0.29 J	22.0	490	< 2.0	< 5.0	4.1 J	2.5 J	4.4 J	< 3.0	1500	< 0.20	0.39 J	3.2 J	4.1 J	< 5.0	< 1.2	8.8 J	< 20.0	6.7 J	2300	240	830	230	6800
		2002 04 (Winter)	0.36 J	< 5.0	970 J	< 2.0	< 5.0	5.4 J	4.2 J	11.0	0.068 J	1700	< 0.20	< 20.0	16.0 J	< 5.0 UJ	< 5.0	< 2.0	11.0	< 20.0	8.5 J	14000 J	330	1100	270	8000
		2002 03 (Fall)	0.48 J	< 5.0	650	< 2.0	< 5.0	3.4 J	4.2 J	3.8 J	< 3.0	1900	< 0.20	0.58 J	7.5 J	< 5.0 UJ	< 5.0	< 2.0	9.1 J	< 20.0	< 100	1900	360	1100	230	8500
	M25-09	2007 01 (Spring)	< 0.15	6.9	340	< 2.0	< 5.0	3.0 J	0.99 J	< 10.0	< 3.0	3700	< 0.20	< 20.0	1.3 J	0.37 J	< 5.0	< 5.0	4.1 J	< 4.7	< 100	110000	72.0	110	62.0	830
		2006 03 (Fall)	< 1.0	9.2	380	< 2.0	< 5.0	< 10.0	1.1	< 10.0	< 3.0	3900 J	< 0.20	< 20.0	1.7 J	0.41 J	< 5.0	< 5.0	< 10.0	< 20.0	< 59.0	100000	90.0	140	76.0	1100 J
		2006 01 (Spring)	< 1.0	5.5	320	0.30 J	0.32 J	3.3 J	1.0	0.63 J	0.19 J	4000	< 0.20	< 20.0	1.9 J	3.4 J	< 5.0	< 5.0	2.5 J	16.0 J	< 10000	150000	67.0	110	52.0	650
		2005 02 (Summer)	0.31 J	4.1 J	320	< 2.0	4.2 J	< 10.0	1.5	< 10.0	< 3.0	2900	< 0.20	< 20.0	4.0 J	< 5.0	< 5.0	< 5.0	< 10.0	22.0 J	< 100	88000	56.0	89.0	57.0	750
		2004 04 (Winter)	0.18 J	3.2 J	380	< 2.0	< 5.0	3.1 J	1.2	1.5 J	0.097 J	4900	< 0.20	0.37 J	4.8 J	< 5.0 UJ	< 5.0	< 5.0	2.6 J	6.4 J	8.0 J	180000	81.0	99.0	66.0	600
		2004 02 (Summer)	0.17 J	6.2	160	< 2.0	< 5.0	< 10.0	4.9	< 10.0	0.54 J	3700	0.092 J	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	< 10.0	15.0 J	< 50.0	83000	85.0	160	82.0	1300
	P181-MW45	2007 01 (Spring)	< 0.24	9.0	1500	< 2.0	< 5.0	4.4 J	3.0	5.4 J	< 3.0	210	< 0.20	< 20.0	2.4 J	0.52 J	< 5.0	< 5.0	10.0	12.0 J	< 100	26000	280	1100	220	7700
		2006 03 (Fall)	< 1.0	5.9	1200	< 2.0	< 5.0	5.0 J	2.8	1.4 J	< 3.0	240 J	< 0.20	0.51 J	< 20.0	0.75 J	0.17 J	< 5.0	8.5 J	6.3 J	< 100	24000 J	260	980 J	220	8000 J
		2006 01 (Spring)	< 1.0	4.9 J	700	0.41 J	2.3 J	3.5 J	2.3	< 10.0	< 3.0	190	< 0.20	< 20.0	4.5 J	< 5.0	0.17 J	< 5.0	4.7 J	6.9 J	< 10000	10000	240	950	190	7100
		2005 02 (Summer)	0.63 J	< 500	1200	< 2.0	1.1 J	2.1 J	3.5	< 10.0	< 3.0	220	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.1 J	14.0 J	74.0 J	26000	220	880	190	6300
		2004 04 (Winter)	0.32 J	< 5.0	1400	< 2.0	< 5.0	6.5 J	4.0	9.3 J	0.35 J	240	< 0.20	0.77 J	13.0 J	< 5.0 UJ	< 5.0	< 5.0	8.8 J	19.0 J	6.5 J	36000	310	1200	240	8600
		2004 02 (Summer)	0.35 J	< 1.0	1400	< 2.0	< 5.0	< 10.0	3.9	< 10.0	0.69 J	240	0.049 J	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	5.9 J	< 20.0	< 50.0	29000	290	1100	240	8500
		2003 04 (Winter)	< 5.0 UJ	< 50.0	1490	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	260	-	< 50.0	< 20.0	< 20.0	< 10.0	-	9.2 J	< 20.0	< 200	29300	261	1090	358	10100
		2003 02 (Summer)	< 50.0	16.0 J	1960 J	< 4.0	1.7 J	4.3 J	3.8 J	< 10.0	< 10.0	311 J	-	< 50.0	5.6 J	< 20.0	< 10.0	< 50.0	6.8 J	< 20.0	< 200	39700 J	312	1260	295 J	7920 J
		2002 04 (Winter)	0.25 J	< 9.5	1600	0.036 J	0.091 J	4.7 J	3.6 J	5.6 J	0.056 J	220	< 0.20	< 20.0	11.0 J	< 5.0	0.025 J	6.4	5.9 J	< 20.0	< 100	30000 J	250	1000	210	7800
		2002 02 (Summer)	0.20 J	< 5.0	1600 J	< 2.0	< 5.0	19.0	4.0 J	8.2 J	0.054 J	230	0.086 J	0.44 J	9.0 J	< 5.0	1.9 J	< 2.0	11.0	< 20.0	4.3 J	22000	450	1800	190	7900
	P181-MW46	2007 01 (Spring)	< 0.13	1.5 J	1000	< 2.0	< 5.0	1.7 J	1.5	< 10.0	< 3.0	1000	< 0.20	< 20.0	< 0.78	< 5.0	< 5.0	< 5.0	11.0	< 5.0	< 100	1800	170	490	89.0	3300
		2006 03 (Fall)	< 1.0	1.3 J	820	< 2.0	< 5.0	1.7 J	0.90 J	< 10.0	< 3.0	1000 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	7.0 J	14.0 J	20.0 J	1100 J	150	350 J	72.0	2600 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 9.1-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
		AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW46	2006 01 (Spring)	< 1.0	0.99 J	**820**	0.44 J	1.5 J	< 10.0	0.94 J	1.5 J	< 3.0	1000	< 0.20	< 20.0	0.92 J	< 5.0	< 5.0	< 5.0	2.8 J	2.8 J	< 10000	2000	**160**	**410**	85.0	2800
		2005 02 (Summer)	0.53 J	4.0 J	**720**	< 2.0	< 5.0	< 10.0	1.2	< 10.0	< 3.0	860	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	2.1 J	14.0 J	79.0 J	1100	120	310	63.0	2100
		2004 04 (Winter)	0.32 J	2.6 J	**860**	< 2.0	< 5.0	2.7 J	1.5	2.2 J	0.26 J	1200	0.073 J	0.22 J	4.0 J	< 5.0 UJ	< 5.0	< 5.0	5.7 J	12.0 J	4.3 J	1300	**180**	**430**	85.0	3000
		2004 02 (Summer)	0.14 J	< 5.0	**840**	< 2.0	< 5.0	< 10.0	1.6	< 10.0	0.16 J	1200	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	18.0 J	< 50.0	1800	**180**	**430**	82.0	3100
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**662**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	813	-	< 50.0	< 20.0	< 20.0	< 10.0	-	5.6 J	< 20.0	< 200	3170	121	298	73.4	2360
		2003 02 (Summer)	< 50.0	< 50.0	**844 J**	< 4.0	< 5.0	2.0 J	1.9 J	< 10.0	< 10.0	982 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	3360 J	**175**	**449**	82.3 J	2450 J
		2002 04 (Winter)	< 50.0	< 5.0	**1200**	0.032 J	< 100 UJ	2.9 J	2.2 J	3.0 J	0.067 J	610	< 0.20	< 400	6.9 J	< 5.0	< 100	< 2.0	3.0 J	< 20.0	< 2000	**13000**	**160**	**530**	110	**4000**
		2002 02 (Summer)	0.079 J	< 5.0	**800 J**	< 2.0	< 5.0	11.0	1.6 J	2.3 J	0.082 J	880	0.071 J	0.44 J	3.1 J	< 5.0	0.87 J	< 2.0	6.3 J	< 20.0	19.0 J	**10000**	**160**	**430**	78.0	3100
	P181-MW47	2007 01 (Spring)	< 0.23	2.3 J	**650**	< 2.0	< 5.0	4.1 J	1.6	< 10.0	< 3.0	260	< 0.20	< 20.0	1.6 J	0.35 J	< 5.0	< 5.0	14.0	9.8 J	< 100	5400	**170**	**600**	130	**4600**
		2006 03 (Fall)	< 1.0	2.0 J	**710**	< 2.0	< 5.0	3.7 J	1.4	< 10.0	< 3.0	300 J	< 0.20	< 20.0	< 20.0	0.51 J	< 5.0	< 5.0	9.2 J	11.0 J	< 100	3600 J	**180**	**540 J**	130	**4400 J**
		2006 01 (Spring)	0.40 J	2.3 J	**840**	< 200	1.7 J	3.7 J	1.8	< 10.0	< 3.0	350	< 0.20	< 20.0	1.2 J	5.3	0.14 J	< 5.0	6.4 J	6.8 J	< 10000	**10000**	**220**	**760**	**150**	**5900**
		2005 02 (Summer)	0.71 J	5.1	**730**	< 2.0	0.42 J	3.3 J	2.7	< 10.0	< 3.0	310	**0.24**	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	5.9 J	13.0 J	110	6500	**180**	**610**	140	**5300**
		2004 04 (Winter)	0.30 J	< 5.0	**640**	< 2.0	< 5.0	4.9 J	2.5	5.1 J	0.31 J	230	< 0.20	0.27 J	8.0 J	< 5.0 UJ	< 5.0	< 5.0	8.4 J	14.0 J	4.6 J	5300	**210**	**720**	**170**	**5900**
		2004 02 (Summer)	0.50 J	< 5.0	**660**	0.31 J	< 5.0	4.3 J	2.5	< 10.0	0.12 J	290	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 1.0	6.5 J	18.0 J	< 50.0	4000	**230**	**700**	**160**	**5800**
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**581**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	248	-	< 50.0	< 20.0	5.3 J	< 10.0	-	10.4 J	< 20.0	< 200	3050	**168**	**564**	**184**	**5520**
		2003 02 (Summer)	< 50.0	< 50.0	**648 J**	< 4.0	< 5.0	5.1 J	< 10.0	< 10.0	< 10.0	334 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	6.0 J	< 20.0	< 200	4620 J	**195**	**608**	**176 J**	**3900 J**
		2002 04 (Winter)	< 50.0	< 5.0	500	0.027 J	< 50.0 UJ	4.8 J	2.2 J	2.5 J	0.37 J	210	< 0.20	< 200	5.0 J	< 5.0	< 50.0	< 2.0	7.2 J	< 20.0	< 1000	3000	**160**	**520**	130	**4400**
		2002 02 (Summer)	0.19 J	0.34 J	510 J	< 2.0	< 5.0	12.0	2.0 J	2.4 J	0.12 J	230	< 0.20	< 20.0	3.3 J	< 5.0	0.59 J	< 2.0	8.9 J	< 20.0	5.2 J	5100	140	**520**	120	**4500**
	PW-12	2007 01 (Spring)	< 0.16	2.0 J	**1000**	< 2.0	< 5.0	4.2 J	1.1	< 10.0	< 3.0	300	< 0.20	< 20.0	1.6 J	0.38 J	< 5.0	< 5.0	17.0	8.3 J	< 100	550	**280**	**720**	**160**	**5300**
		2006 03 (Fall)	< 1.0	2.0 J	**1700**	< 2.0	< 5.0	7.8 J	1.9	< 10.0	< 3.0	500	< 0.20	< 20.0	2.4 J	0.45 J	< 5.0	< 5.0	13.0	< 20.0	< 54.0	290	**370 J**	**960 J**	**220 J**	**8100 J**
		2006 01 (Spring)	< 1.0	2.6 J	**790**	< 200	1.1 J	1.9 J	2.4	2.1 J	< 3.0	910	< 0.20	< 20.0	4.0 J	< 5.0	< 5.0	< 5.0	4.5 J	13.0 J	< 10000	5700	**230**	**430**	75.0	2800
		2005 02 (Summer)	1.3	**150 J**	**1600**	< 2.0	< 5.0	3.5 J	2.5	< 10.0	< 3.0	390	< 0.20	1.5 J	< 20.0	< 500	< 5.0	0.13 J	9.9 J	18.0 J	< 100	1200	**330**	**960**	**220**	**7300**
		2004 04 (Winter)	0.35 J	< 5.0	**1400**	< 2.0	< 5.0	8.4 J	3.1	11.0	0.28 J	380	0.047 J	0.46 J	15.0 J	< 5.0 UJ	< 5.0	< 5.0	12.0	22.0	4.5 J	4200	**440**	**1300**	**300**	**9800**
		2004 02 (Summer)	0.44 J	< 1.0	**1700**	< 1.0	3.9 J	**15.0**	3.7	11.0	0.24 J	410	**0.28**	< 20.0	17.0	< 1.0	< 5.0	< 1.0	17.0	< 1.0	5.0 J	1100	**440**	**1400**	**300**	**10000**
		2003 04 (Winter)	< 25.0 UJ	< 50.0	**1390**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	328	**0.22 J**	< 50.0	< 20.0	< 20.0	< 10.0	-	14.2 J	< 20.0	< 200	1340	**348**	**1330**	**405**	**10700**
		2003 02 (Summer)	< 50.0	< 50.0	**1830 J**	< 4.0	< 5.0	5.6 J	2.1 J	< 10.0	< 10.0	437 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	8.1 J	< 20.0	< 200	1820 J	**411**	**1300**	**331 J**	**8130 J**
		2002 04 (Winter)	0.27 J	< 5.0	< 880 UJ	< 2.0	< 5.0	7.1 J	2.8 J	4.8 J	0.15 J	370	< 0.20	0.39 J	6.9 J	< 5.0 UJ	< 5.0	< 2.0	13.0	< 20.0	5.4 J	2900 J	**260**	**720**	**160**	**5500**
		2002 02 (Summer)	0.18 J	< 5.0	**1200 J**	< 2.0	< 5.0	**18.0**	3.0 J	5.3 J	0.055 J	430	0.062 J	< 20.0	4.8 J	< 5.0	1.1 J	< 2.0	13.0	< 20.0	< 100	3200	**400**	**1200**	**250**	**8800**
	S-16	2002 02 (Summer)	0.27 J	< 5.0	**610**	< 2.0	0.079 J	**17.0**	3.4 J	6.7 J	0.041 J	**2100**	0.11 J	< 20.0	7.3 J	< 5.0	**15.0**	< 2.0	14.0	< 20.0	6.6 J	5300	**580**	**1300**	**280**	**9400**
	S-16R	2007 01 (Spring)	< 0.35	5.8	480	< 2.0	< 5.0	9.1 J	2.1	0.32 J	< 3.0	**2300**	0.039 J	< 0.29	2.3 J	0.37 J	< 5.0	< 5.0	22.0	11.0 J	< 100	1100	**560**	**1500**	**360**	**10000**
		2006 03 (Fall)	< 1.0	17.0	530	< 2.0	< 5.0	8.1 J	1.9	< 10.0	< 3.0	**2300 J**	< 0.20	< 20.0	< 20.0	0.72 J	< 5.0	< 5.0	18.0	12.0 J	< 6.7	1500 J	**510 J**	**1300 J**	**340 J**	**11000 J**

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 9.1-5

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	S-16R	2006 01 (Spring)	0.42 J	11.0	**580**	**22.0 J**	2.5 J	5.6 J	1.7	< 10.0	< 3.0	**2800**	< 0.20	< 20.0	1.2 J	< 5.0	0.20 J	< 5.0	14.0	6.1 J	< 10000	**6900**	**530**	**1600**	**350**	**11000**
		2005 02 (Summer)	1.2	**30.0**	500	< 2.0	1.2 J	9.0 J	3.7	< 10.0	< 3.0	**2800**	< 0.20	< 20.0	7.3 J	< 5.0	< 5.0	< 5.0	11.0	20.0 J	140 J	**8500**	**450**	**1200**	**320**	**9200**
		2004 04 (Winter)	0.67 J	< 5.0	**610**	< 2.0	< 5.0	5.2 J	5.2	16.0	0.37 J	**3300**	< 0.20	1.7 J	**23.0**	< 5.0 UJ	< 5.0	< 5.0	12.0	23.0	7.0 J	**14000**	**490**	**1400**	**300**	**9900**
	S-35	2004 02 (Summer)	0.41 J	3.2	69.0	< 1.0	< 5.0	1.2	0.25 J	2.3	0.94 J	82.0	0.084 J	< 20.0	3.9	< 1.0	< 5.0	< 1.0	4.6	7.4	< 50.0	< 100	84.0	36.0	14.0	130
		2003 04 (Winter)	< 5.0 UJ	< 50.0	86.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	109	-	< 50.0	< 20.0	< 20.0	< 10.0	-	7.3 J	< 20.0	< 200	587	25.6	18.9	16.2	504
		2003 02 (Summer)	< 50.0	9.1 J	128 J	< 4.0	< 5.0	< 10.0	< 10.0	2.4 J	< 10.0	73.7 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.4 J	3.4 J	< 200	1210 J	51.6	36.2	27.5 J	359 J
		2002 04 (Winter)	< 50.0	9.9	170	< 2.0	< 5.0	< 10.0	1.0 J	2.7 J	0.054 J	150	< 0.20	3.8 J	7.3 J	< 5.0	< 5.0	< 2.0	9.1 J	4.3 J	< 100	640	32.0	35.0	18.0	620
		2002 02 (Summer)	0.37 J	14.0	58.0	< 2.0	< 5.0	< 10.0	0.75 J	3.1 J	0.13 J	80.0	0.071 J	3.0 J	4.7 J	1.3 J	< 5.0	0.068 J	10.0 J	4.5 J	< 100	180	36.0	17.0	11.0	400
	S-35R	2004 04 (Winter)	0.24 J	< 5.0	**610**	< 2.0	< 5.0	2.2 J	2.2	3.8 J	0.45 J	430	< 0.20	1.0 J	7.6 J	< 5.0 UJ	< 5.0	< 5.0	4.4 J	8.1 J	3.4 J	**12000**	120	**360**	79.0	3100
		2004 02 (Summer)	0.32 J	11.0	350	< 2.0	< 5.0	< 10.0	1.8	< 10.0	0.20 J	610	0.075 J	< 20.0	4.2 J	< 5.0	< 5.0	< 1.0	< 10.0	22.0	< 50.0	4300	93.0	200	41.0	1900
	S-35R-2	2007 01 (Spring)	< 0.14	9.6	410	< 2.0	< 5.0	2.1 J	0.88 J	< 10.0	< 3.0	210	< 0.20	2.3 J	0.99 J	< 5.0	< 5.0	< 5.0	12.0	< 3.2	< 100	4200	61.0	130	35.0	1500
		2006 03 (Fall)	< 1.0	12.0	**980**	< 2.0	< 5.0	< 10.0	1.9	< 10.0	< 3.0	400 J	< 0.20	0.74 J	< 20.0	0.30 J	< 5.0	< 5.0	< 10.0	8.0 J	< 100	**15000 J**	120	**410 J**	92.0	**4100 J**
		2006 01 (Spring)	< 1.0	8.1	420	0.36 J	0.94 J	< 10.0	0.66 J	0.61 J	< 3.0	380	< 0.20	< 20.0	0.94 J	< 5.0	< 5.0	< 5.0	3.3 J	2.2 J	< 100	6200	93.0	170	42.0	1500
		2005 02 (Summer)	0.38 J	< 500	**640**	< 2.0	< 5.0	< 10.0	1.6	< 10.0	< 3.0	740	< 0.20	< 20.0	1.7 J	< 5.0	< 5.0	4.6 J	< 10.0	14.0 J	110 J	**8400**	75.0	230	60.0	2300
SWBZ	D-02	2004 04 (Winter)	0.068 J	**46.0**	**2500**	< 2.0	< 5.0	0.74 J	1.3	3.1 J	0.24 J	**20000**	< 0.20	0.60 J	7.4 J	< 5.0 UJ	< 5.0	< 5.0	0.88 J	9.5 J	3.0 J	**22000**	**610**	**430**	17.0	1300
		2004 02 (Summer)	< 1.0	**58.0**	**2400**	< 2.0	< 5.0	1.9 J	0.95 J	< 10.0	0.61 J	**20000**	< 0.20	< 20.0	2.8 J	4.9 J	< 5.0	< 1.0	< 10.0	< 26.0	< 50.0	**21000**	**510**	**390**	18.0	1300
		2003 04 (Winter)	< 5.0 UJ	**59.8**	**2120**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**18200**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	**20500**	**443**	**357**	17.4	1220
		2003 02 (Summer)	< 50.0	**71.8**	**2460**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**19600**	< 0.40 UJ	< 50.0	2.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**24400**	**495**	**390**	18.8 J	1110
		2002 04 (Winter)	0.054 J	**57.0**	**2000**	< 2.0	< 5.0	< 10.0	0.98 J	1.5 J	0.068 J	**16000**	< 0.20	0.57 J	3.6 J	**11.0**	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**19000**	**390**	300	17.0	1000
		2002 02 (Summer)	< 50.0	**53.0**	**2200**	1.4 J	< 5.0	7.5 J	< 10.0	< 10.0	< 3.0	**18000**	< 0.20	< 20.0	< 20.0	**12.0**	< 5.0	< 2.0 UJ	< 10.0	< 20.0	< 100 UJ	**20000**	**460**	**360**	16.0	1200
	D-02R	2007 01 (Spring)	< 1.0	**91.0**	**1300**	< 2.0	< 5.0	< 0.82	3.8	< 10.0	< 3.0	**4900**	< 0.20	1.2 J	6.7 J	< 5.0	< 5.0	< 5.0	< 3.5	17.0 J	< 12.0	**21000**	**240**	**420**	65.0	2200
		2006 03 (Fall)	< 1.0	**78.0**	**1300**	< 2.0	< 5.0	< 10.0	3.2	< 10.0	< 3.0	**4700 J**	< 0.20	1.3 J	0.91 J	< 5.0	< 5.0	< 5.0	< 10.0	6.3 J	32.0 J	**19000 J**	**230 J**	**410 J**	66.0	2200 J
		2006 01 (Spring)	< 1.0	**79.0**	**1300**	< 2.0	< 5.0	< 10.0	4.7	2.9 J	< 3.0	**5300**	< 0.20	< 20.0	11.0 J	8.4	< 5.0	< 5.0	< 10.0	11.0 J	< 100	**18000**	**260**	**460**	67.0	2400
		2005 02 (Summer)	0.25 J	**74.0**	**1100**	< 2.0	< 5.0	< 10.0	4.6	< 10.0	< 3.0	**4600**	< 0.20	< 20.0	5.2 J	< 5.0	< 5.0	< 5.0	< 10.0	23.0	92.0 J	**12000**	**190**	350	51.0	1800

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 9.1-6
Groundwater Sampling Field Parameters at Operable Unit 5 - IR Site 25 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M25-01	04/04/07	6.84	0.40	-160.6
		10/13/06	6.84	0.36	-191.0
		05/02/06	6.90	1.01	-209.0
		09/13/05	6.70	0.36	-209.0
		03/17/05	6.94	0.05	-202.0
		11/19/04	6.54	0.18	65.0
		06/25/04	7.31	4.70	-108.0
		03/09/04	6.70	0.16	213.0
		12/08/03	6.61	0.21	-2.0
		09/22/03	6.72	0.15	-81.0
		07/03/03	6.65	0.11	-193.0
		04/16/03	6.60	0.19	-116.0
		12/30/02	6.08	***37.98***	-152.1
		09/11/02	6.78	0.70	-161.2
First	M25-02	04/02/07	6.61	0.45	-244.1
		10/13/06	6.52	0.34	-278.3
		05/02/06	6.64	0.77	-299.0
		09/13/05	6.99	0.85	-298.0
		03/21/05	6.11	0.28	-233.0
		11/19/04	6.41	0.32	-50.0
		06/25/04	6.95	3.50	-126.0
		03/08/04	6.52	0.15	30.0
		12/08/03	6.48	0.13	-62.0
		09/19/03	6.45	0.13	-88.0
		07/07/03	6.68	0.17	-147.0
		04/16/03	6.40	0.19	-6.0
		12/26/02	7.30	0.00	-145.0
		09/12/02	6.52	1.00	-119.3
First	M25-04	04/02/07	6.46	0.78	38.3
		10/13/06	6.30	0.65	-31.6
		05/02/06	6.18	1.17	-36.0
		09/13/05	6.78	0.98	-29.0
		03/21/05	6.07	3.20	5.0
		11/19/04	6.14	0.42	184.0
		06/25/04	6.47	5.90	134.0
		03/08/04	6.48	0.64	35.0
		12/12/03	6.74	0.20	269.0
		09/19/03	6.60	0.22	81.0
		07/03/03	6.62	0.20	-210.0
		04/16/03	6.30	0.22	176.0
		12/19/02	***8.65***	0.00	-112.0
		09/11/02	6.60	3.40	-53.4

Table 9.1-6
Groundwater Sampling Field Parameters at Operable Unit 5 - IR Site 25 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M25-05	04/02/07	6.71	0.36	-237.9
		10/13/06	6.74	0.34	-292.9
		05/02/06	6.74	2.02	-313.0
		09/12/05	7.35	0.68	-201.0
		03/21/05	6.85	3.50	-243.0
		11/19/04	6.71	0.22	-10.0
		06/25/04	7.33	2.70	-100.0
		03/09/04	6.74	0.34	36.0
		12/11/03	6.67	0.17	-190.3
		09/23/03	6.64	0.23	-161.0
		07/03/03	6.68	0.15	-86.0
		04/21/03	6.54	0.26	-78.0
		12/20/02	6.70	0.00	-117.0
		09/11/02	6.61	4.10	-206.0
First	M25-06	04/02/07	6.78	0.25	-250.2
		10/13/06	6.87	0.40	-280.9
		05/02/06	6.78	0.50	-195.0
		09/14/05	7.35	0.80	-213.0
		03/22/05	6.26	***10.06***	-217.0
		11/19/04	6.56	0.62	62.0
		06/28/04	7.50	3.60	-21.0
First	M25-07	04/02/07	6.67	0.37	-147.3
		10/13/06	6.78	0.02	-135.4
		05/02/06	6.94	1.01	-158.0
		09/13/05	6.75	3.62	-190.0
		03/17/05	6.97	0.14	-179.0
		11/19/04	6.55	0.20	54.0
		06/28/04	7.53	3.20	-27.0
First	M25-08	04/02/07	6.95	0.33	-157.7
		10/16/06	6.53	0.02	-151.0
		05/03/06	6.66	0.43	-243.0
		09/13/05	7.33	0.76	-206.0
		03/21/05	6.34	***13.36***	-201.0
		11/19/04	6.52	0.19	43.0
		06/28/04	7.35	3.40	-72.0
First	M25-09	04/02/07	6.35	0.18	-118.7
		10/16/06	6.12	0.39	-131.9
		05/03/06	6.15	0.73	-188.0
		09/14/05	6.74	0.90	-162.0
		03/17/05	6.38	0.12	-172.0
		11/19/04	6.05	1.20	7.0
		06/28/04	6.80	3.30	-66.0

Table 9.1-6
Groundwater Sampling Field Parameters at Operable Unit 5 - IR Site 25 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	P181-MW45	04/02/07	6.61	0.05	-132.4
		10/16/06	6.38	0.05	129.7
		05/02/06	6.62	0.29	-134.0
		09/14/05	7.18	0.85	-179.0
		03/17/05	6.92	3.22	-195.0
		11/19/04	6.36	0.33	-5.0
		06/28/04	7.15	2.30	-217.0
		03/08/04	6.68	0.13	38.0
		12/11/03	6.56	0.20	-76.0
		09/19/03	6.57	0.21	-73.0
		07/03/03	6.60	0.15	-106.0
		04/17/03	6.50	0.32	-42.0
		12/19/02	6.35	***13.49***	-89.5
		09/11/02	6.57	0.90	-140.6
		06/24/02	6.49	4.30	-119.5
First	P181-MW46	04/02/07	6.51	0.09	-103.3
		10/16/06	6.24	0.21	-247.5
		05/02/06	6.39	0.08	-217.0
		09/14/05	7.07	0.96	-210.0
		03/21/05	6.17	3.79	-207.0
		11/19/04	6.31	0.32	-10.0
		06/30/04	7.07	2.40	30.0
		03/08/04	6.60	0.17	51.0
		12/11/03	6.51	0.20	-145.8
		09/19/03	6.52	0.20	-12.0
		07/03/03	6.60	0.19	-9.0
		04/17/03	6.47	0.23	54.0
		12/19/02	6.07	4.66	-135.1
		09/11/02	6.62	0.90	-90.1
		06/24/02	6.40	***16.28***	-86.5
First	P181-MW47	04/02/07	7.01	***0.21***	-212.6
		10/16/06	6.33	***0.07***	-236.1
		05/03/06	6.84	2.26	-259.0
		09/12/05	7.12	0.67	-176.0
		03/21/05	6.18	4.30	-166.0
		11/19/04	6.59	0.20	64.0
		06/30/04	7.20	3.30	66.0
		03/08/04	6.67	0.18	79.0
		12/11/03	6.55	0.19	-157.7
		09/19/03	6.54	0.16	-40.0
		07/03/03	6.64	0.27	-6.0
		04/17/03	6.50	0.26	55.0
		12/19/02	6.04	7.61	-137.8
		09/11/02	6.73	1.20	-84.2
		06/24/02	6.44	***10.27***	-77.9

Table 9.1-6
Groundwater Sampling Field Parameters at Operable Unit 5 - IR Site 25 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	PW-12	04/02/07	7.16	***0.33***	-247.6
		10/16/06	6.48	***0.05***	-259.3
		05/03/06	6.41	0.37	-143.0
		09/13/05	6.69	0.00	-267.0
		03/21/05	6.68	0.04	-57.0
		11/19/04	6.53	0.14	2.0
		06/29/04	7.45	2.90	-56.0
		03/08/04	6.76	0.12	35.0
		12/11/03	6.84	0.18	47.0
		09/22/03	6.75	0.30	-17.0
		07/03/03	6.76	0.14	-234.0
		04/16/03	6.42	0.28	166.0
		12/20/02	6.68	0.00	-161.0
		09/12/02	6.90	1.30	-95.5
		06/24/02	6.64	0.35	-60.6
First	S-16R	04/02/07	6.76	0.29	-272.3
		10/16/06	6.44	0.01	-166.6
		05/03/06	6.78	2.60	-216.0
		09/13/05	7.25	3.03	-165.0
		03/17/05	6.95	4.77	-202.0
		11/19/04	6.67	0.33	4.0
First	S16-2	06/29/04	7.39	***24.10***	-107.0
		03/08/04	6.75	1.88	74.0
		12/19/03	6.59	1.68	17.0
		09/23/03	6.59	0.32	-134.0
		06/25/02	6.56	1.14	-321.0
First	S-35R-2	04/02/07	6.86	0.32	-146.0
		10/16/06	6.47	0.19	-125.1
		05/02/06	6.50	0.48	-219.0
		09/12/05	7.39	0.88	-171.0
		03/17/05	7.11	0.00	-182.0
		11/19/04	6.61	0.40	-14.0
		06/29/04	7.35	2.60	-27.0
First	S-35	06/29/04	7.25	***14.40***	184.0
		03/08/04	6.96	4.14	232.0
		12/11/03	7.21	0.44	18.0
		09/22/03	7.18	0.18	-60.0
		07/03/03	7.03	NM	26.0
		04/17/03	7.01	0.91	94.0
		12/26/02	7.48	0.15	-117.0
		09/11/02	7.04	4.10	-114.0
		06/25/02	7.03	***34.00***	52.2

Table 9.1-6
Groundwater Sampling Field Parameters at Operable Unit 5 - IR Site 25 Group
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D-02R	04/03/07	6.79	***0.41***	-112.8
		10/16/06	6.48	***0.51***	-118.8
		05/08/06	6.87	1.30	-183.0
		03/21/05	6.35	5.71	-178.0
		11/19/04	6.75	0.22	-6.0
		06/25/04	7.30	3.60	-59.0
		03/08/04	6.78	0.27	1.1
		12/08/03	6.66	0.19	11.0
		09/22/03	6.68	0.19	-81.0
		07/02/03	6.93	0.16	-142.0
		04/16/03	6.77	2.94	-1.0
		12/27/02	7.17	4.25	-144.0
		09/11/02	6.63	2.90	-149.0
		07/16/02	6.71	***-0.02***	-138.2

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 9.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2007 01 (Spring)	< 0.0050	< 0.0050	14.0	< 1.0	< 2.5	14000	< 10.0	3200	3200	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	14.0	< 1.0	< 1.3	12000	1.9 J	710	710	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	12.0	< 1.0	< 2.5	15000	2.4 J	3400	3400	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	13.0	< 1.3	< 2.5	14000	6.3 J	2100	2100	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	15.0	< 1.3	< 2.5	14000	10.0 J	3300	3300	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	6.8	10.5	< 50.0	14300	9.2	3420	3420	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	3.8	< 1.0 UJ	-	14600	20.1	2880	-	-	-	2.8
	M25-02	2007 01 (Spring)	< 0.050	< 0.050	13.0	< 0.10	< 0.25	1700	79.0	920	920	< 10.0	< 10.0	6.4
		2006 01 (Spring)	< 0.0050	< 0.0050	16.0	< 0.10	< 0.25	1600	55.0	710	710	< 1.0	< 1.0	9.7
		2005 02 (Summer)	< 0.0050	< 0.0050	13.0	< 0.10	< 0.20	1800	230	940	940	< 1.0	< 1.0	8.4
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	15.0	< 0.25	< 0.25	2000	77.0	1000	1000	< 1.0	< 1.0	5.3
		2004 02 (Summer)	< 0.010	< 0.010	17.0	< 0.25	< 0.25	2100	180	890	890	< 1.0	< 1.0	6.0
		2003 04 (Winter)	< 0.0030	< 0.0030	5.9	1.9	< 1.0	2080	23.7	890	890	< 5.0	-	2.8
		2003 02 (Summer)	< 0.0030	< 0.0030	5.8	< 1.0	< 10.0	2880	64.7	957	-	-	-	1.7
	M25-04	2007 01 (Spring)	< 0.025	< 0.025	4.0	0.21	< 0.050	43.0	54.0	280	280	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	2.3	0.20	< 0.050	18.0	20.0	140	140	< 1.0	< 1.0	< 0.040

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-04	2005 02 (Summer)	< 0.0050	< 0.0050	8.3	< 0.050	< 0.050	28.0	39.0	130	130	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	0.93	2.2	< 0.050	49.0	52.0	180	180	< 1.0	< 1.0	0.060
		2004 02 (Summer)	< 0.010	< 0.010	0.19	0.38	< 0.050	37.0	40.0	180	180	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	1.6	< 1.0	< 1.0	58.7	29.8	188	188	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.47	0.31	< 0.20	36.5	27.2	134	-	-	-	< 1.0
	M25-05	2007 01 (Spring)	< 0.025	< 0.025	11.0	< 1.3	< 1.3	11000	50.0	2900	2900	< 10.0	< 10.0	0.86
		2006 01 (Spring)	< 0.0050	< 0.0050	11.0	< 1.0	< 1.3	11000	100	2000	2000	< 1.0	< 1.0	1.3
		2005 02 (Summer)	< 0.0050	< 0.0050	12.0	< 1.0	< 1.3	12000	190	3100	3100	< 1.0	< 1.0	0.92
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	11.0	< 1.3	< 2.5	16000	180	2200	2200	< 1.0	< 1.0	0.50
		2004 02 (Summer)	< 0.010	< 0.010	12.0	< 1.3	< 2.5	15000	260	2100	2100	< 1.0	< 1.0	0.58
		2003 04 (Winter)	< 0.0030	< 0.0030	2.2	-	-	13500	404	3090	3090	< 5.0	-	3.4
		2003 02 (Summer)	< 0.0030	< 0.0030	3.7	< 1.0 UJ	-	16200	626	2730	-	-	-	4.1
	M25-09	2007 01 (Spring)	< 0.025	< 0.025	12.0	< 0.15	< 0.15	1400	95.0	660	660	< 10.0	< 10.0	0.050
		2006 01 (Spring)	< 0.0050	< 0.0050	2.6	< 0.050	< 0.10	900	180	530	530	< 1.0	< 1.0	0.090
		2005 02 (Summer)	< 0.0050	< 0.0050	8.9	< 0.10	< 0.20	1800	130	740	740	< 1.0	< 1.0	0.12
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	8.8	< 0.050	< 0.10	930	82.0	560	560	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-09	2004 02 (Summer)	< 0.010	< 0.010	12.0	< 0.25	< 0.25	2100	27.0	720	720	< 1.0	< 1.0	< 0.040
	P181-MW45	2007 01 (Spring)	< 0.050	< 0.050	14.0	< 1.0	< 2.5	15000	< 10.0	3300	3300	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	16.0	< 1.0	< 1.3	12000	< 10.0	1700	1700	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	9.8	< 1.0	< 2.5	14000	< 10.0	3000	3000	< 1.0	< 1.0	0.090
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	16.0	< 1.3	< 2.5	15000	< 13.0	2200	2200	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	13.0	< 1.3	< 2.5	14000	< 13.0	2900	2900	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	3.6	-	-	12700	< 5.0	3070	3070	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	3.4	< 1.0 UJ	-	16800	< 1.0	3900	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	7.9	< 1.3	< 2.5	15000	< 13.0	3100	3100	< 1.0	< 1.0	0.070
		2002 02 (Summer)	< 0.010	< 0.010	13.0	< 0.50	< 0.50	14000	< 5.0	2900	2900	< 1.0	< 1.0	0.070
	P181-MW46	2007 01 (Spring)	< 0.050	< 0.050	14.0	< 0.50	< 1.0	6000	47.0	1600	1600	< 10.0	< 10.0	1.6
		2006 01 (Spring)	< 0.0050	< 0.0050	15.0	< 0.25	< 0.50	4400	20.0	1200	1200	< 1.0	< 1.0	1.0
		2005 02 (Summer)	< 0.0050	< 0.0050	13.0	< 0.25	< 0.50	4600	31.0	1200	1200	< 1.0	< 1.0	2.5
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	16.0	< 0.50	< 0.50	4800	66.0	1400	1400	< 1.0	< 1.0	2.2
		2004 02 (Summer)	< 0.010	< 0.010	18.0	< 0.25	< 0.50	5000	32.0	1400	1400	< 1.0	< 1.0	1.3
		2003 04 (Winter)	< 0.0030	< 0.0030	2.3	-	-	3840	17.7	1450	1450	< 5.0	-	< 1.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW46	2003 02 (Summer)	< 0.0030	< 0.0030	6.3	< 1.0 UJ	-	5140	42.4	1220	-	-	-	2.5
		2002 04 (Winter)	< 0.010	< 0.010	5.7	< 0.50	< 1.3	9600	0.92 J	2300	2300	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	14.0	< 0.50	< 0.50	5500	110	1400	1400	< 1.0	< 1.0	0.42
	P181-MW47	2007 01 (Spring)	< 0.050	< 0.050	14.0	< 0.50	< 1.0	8200	6.6	1800	1800	< 10.0	< 10.0	0.10
		2006 01 (Spring)	< 0.0050	< 0.0050	14.0	< 0.50	< 1.0	9200	23.0	2100	2100	< 1.0	< 1.0	0.060
		2005 02 (Summer)	< 0.0050	< 0.0050	11.0	< 1.0	< 1.3	10000	< 10.0	2500	2500	< 1.0	< 1.0	0.050
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	13.0	< 1.0	< 1.0	9800	< 10.0	2200	2200	< 1.0	< 1.0	0.050
		2004 02 (Summer)	< 0.010	< 0.010	16.0	< 0.50	< 1.3	9400	6.3	2200	2200	< 1.0	< 1.0	0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	4.1	-	-	8380	3.0 J	1800	1800	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	4.2	< 1.0 UJ	-	9960	5.5	1790	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	10.0	< 0.50	< 1.3	9300	6.7	2000	2000	< 1.0	< 1.0	0.41
		2002 02 (Summer)	< 0.010	< 0.010	12.0	< 0.50	< 0.50	7900	6.8	2200	2200	< 1.0	< 1.0	0.37
	PW-12	2007 01 (Spring)	< 0.050	< 0.050	11.0	< 0.50	< 1.0	9400	480	2200	2200	< 10.0	< 10.0	5.8
		2006 01 (Spring)	< 0.0050	< 0.0050	10.0	< 0.25	< 0.50	2900	140	840	840	< 1.0	< 1.0	0.050
		2005 02 (Summer)	< 0.0050	< 0.0050	8.1	< 1.0	< 2.5	15000	570	3400	3400	< 1.0	< 1.0	1.8
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	6.4	< 1.3	< 2.5	18000	300	3600	3600	< 1.0	< 1.0	0.71

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	PW-12	2004 02 (Summer)	< 0.010	< 0.010	13.0	< 1.3	< 2.5	18000	56.0	3700	3700	< 1.0	< 1.0	0.17
		2003 04 (Winter)	< 0.0030	< 0.0030	3.0	-	-	13600	203	4280	4280	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030 UJ	< 0.0030 UJ	4.0	< 1.0 UJ	-	18200	37.5	3200	-	-	-	2.5
		2002 04 (Winter)	< 0.010	< 0.010	7.4	< 1.3	< 1.3	12000	91.0	1900	1900	< 1.0	< 1.0	2.1
		2002 02 (Summer)	< 0.010	< 0.010	6.5	< 0.50	< 0.50	17000	370	3600	3600	< 1.0	< 1.0	0.15
	S-16	2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	2.9 J	< 0.50	< 0.50	18000	54.0	3600	3600	< 1.0	< 1.0	5.3
	S-16R	2007 01 (Spring)	< 0.025	< 0.025	9.1	< 1.0	< 2.5	18000	100	3800	3800	< 10.0	< 10.0	1.6
		2006 01 (Spring)	< 0.0050	< 0.0050	3.6	< 1.0	< 2.5	19000	47.0	3600	3600	< 1.0	< 1.0	0.090
		2005 02 (Summer)	< 0.0050	< 0.0050	4.0	< 1.0	< 2.5	20000	260	3700	3700	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	6.2	< 1.3	< 2.5	21000	210	3100	3100	< 1.0	< 1.0	< 0.040
	S-35	2004 02 (Summer)	< 0.010	< 0.010	0.026	0.48	< 0.050	100	56.0	340	340	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	1.7	-	-	289	17.9	608	608	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	2.7	0.66 J	< 1.0 UJ	742	16.1	620	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	2.7	< 0.10	< 0.10	580	2.1	710	710	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010 UJ	< 0.010 UJ	3.4 J	0.19	< 0.050	200	13.0	540	540	< 1.0	< 1.0	0.060
	S-35R	2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	13.0	< 1.0	< 1.0	6900	5.6 J	1400	1400	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 9.1-7

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	S-35R	2004 02 (Summer)	< 0.010	< 0.010	13.0	0.12 J	< 0.25	2100	23.0	800	800	< 1.0	< 1.0	< 0.040
FWBZ	S-35R-2	2007 01 (Spring)	< 0.050	< 0.050	12.0	< 0.15	< 0.25	2100	30.0	1000	1000	< 10.0	< 10.0	0.13
FWBZ	S-35R-2	2006 01 (Spring)	< 0.0050	< 0.0050	13.0	< 0.10	< 0.25	1400	140	670	670	< 1.0	< 1.0	0.090
FWBZ	S-35R-2	2005 02 (Summer)	< 0.0050	< 0.0050	15.0	< 0.25	< 0.50	4700	4.1	1500	1500	< 1.0	< 1.0	< 0.040
SWBZ	D-02	2004 04 (Winter)	< 0.0050 UJ	< 0.0050 UJ	22.0	< 0.25	< 0.50	3500	< 2.5	890	890	< 1.0	< 1.0	< 0.040
SWBZ	D-02	2004 02 (Summer)	< 0.010	< 0.010	23.0	< 0.25	< 0.50	3400	< 2.5	870	870	< 1.0	< 1.0	< 0.040
SWBZ	D-02	2003 04 (Winter)	< 0.0030	< 0.0030	6.1	< 1.0	< 1.0	3280	< 5.0	900	900	< 5.0	-	< 1.0
SWBZ	D-02	2003 02 (Summer)	< 0.0030 UJ	< 0.0030 UJ	5.9	< 1.0	< 10.0 UJ	3790	< 5.0	825	-	-	-	< 1.0
SWBZ	D-02	2002 04 (Winter)	< 0.010	< 0.010	16.0	< 0.50	< 0.50	3100	< 5.0	880	880	< 1.0	< 1.0	< 0.040
SWBZ	D-02	2002 02 (Summer)	< 0.010	< 0.010	29.0	< 0.25	< 0.25	3300	< 2.5	920	920	< 1.0	< 1.0	< 0.040
SWBZ	D-02R	2007 01 (Spring)	< 0.0050	< 0.0050	24.0	< 0.25	< 0.50	4500	< 2.5	1500	1500	< 10.0	< 10.0	< 0.040
SWBZ	D-02R	2006 01 (Spring)	< 0.050	< 0.050	21.0	< 0.25	< 0.50	4300	< 2.5	1400	1400	< 1.0	< 1.0	< 0.040 UJ
SWBZ	D-02R	2005 02 (Summer)	< 0.0050	0.0030 J	20.0	< 0.25	< 0.50	4600	0.31 J	1500	1500	< 1.0	< 1.0	< 0.040

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-16D	2006 04 (Winter)	11.0	< 0.013	< 0.0013	< 0.0013	9.2	78.0	2.2	4.4	< 0.64	< 0.64	0.65	< 6.4	< 0.64	< 0.64
		2006 03 (Fall)	2.8	< 0.014	< 0.0014	< 0.0014	0.18	76.0	21.0	< 0.72	3.9	10.0	49.0	< 7.2	< 0.72 UJ	< 0.72
		2006 01 (Spring)	4.9	< 0.013	< 0.0013	< 0.0013	0.41	77.0	18.0	< 0.67	0.84	< 0.67	1.6 J	< 6.7 UJ	< 0.67	< 0.67
		2005 02 (Summer)	0.099	< 0.013	< 0.0013	< 0.0013	0.0003	78.0	22.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2002 03 (Fall)	0.94	< 0.0029	< 0.0014	< 0.0014	0.0024	-	31.0	0.59	2.3	0.27 J	1.6	0.76 J	0.52 J	< 0.40
	OU5-SG-16S	2007 01 (Spring)	16.0	< 0.014	< 0.0014	< 0.0014	27.0	56.0	1.2	90.0	1.7	3.2	7.1	< 6.8	< 0.68	< 0.68
		2006 04 (Winter)	0.058	< 0.014	< 0.0014	< 0.0014	0.0003	79.0	21.0	1.2	2.6	< 0.72	1.4	< 7.2	< 0.72	< 0.72
		2006 03 (Fall)	14.0	< 0.014	< 0.0014	< 0.0014	16.0	68.0	1.5	6.8	3.0	10.0	51.0	< 7.0	< 0.70 UJ	< 0.70
		2006 02 (Summer)	-	-	-	-	-	-	-	31.0	0.94	0.73	1.1	120	< 0.68	7.2
		2006 01 (Spring)	7.8	< 0.014	< 0.0014	< 0.0014	< 0.0001	80.0	12.0	< 0.70	< 0.70	< 0.70	1.6 J	< 7.0 UJ	< 0.70	< 0.70
		2005 02 (Summer)	10.0	< 0.013	< 0.0013	< 0.0013	0.085	80.0	9.3	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67
		2005 01 (Spring)	3.4	< 0.014	< 0.0014	< 0.0014	< 0.0001	80.0	16.0	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70
		2004 01 (Spring)	-	-	-	-	-	-	-	< 0.20	0.30	0.12 J	0.85	20.0	< 1.0	0.11 J
		2003 04 (Winter)	2.2	< 0.0019	< 0.0009	< 0.0009	< 0.0003	-	19.0	0.23	0.67	0.18 J	1.0	1.2	< 1.0 UJ	< 0.20
		2003 03 (Fall)	6.5	< 0.0010	< 0.0010	< 0.0010	0.0006	-	17.0	< 1.0	< 1.0	< 1.0	< 1.0	10.3	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 1.0	2.0	< 1.0	6.0	189	< 1.0	< 1.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-16D	2006 04 (Winter)	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	48.0	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64
		2006 03 (Fall)	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	14.0	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
		2006 01 (Spring)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 UJ	< 0.67	< 0.67	12.0	< 0.67	< 0.67 UJ	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	10.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2002 03 (Fall)	0.19 J	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	7.6	< 0.40	< 0.40	< 0.40	< 0.40	< 0.80
	OU5-SG-16S	2007 01 (Spring)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	36.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	56.0	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
		2006 03 (Fall)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	16.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 02 (Summer)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	67.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70	14.0	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	3.4	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	3.3	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.088 J	< 0.20	< 1.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 04 (Winter)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.083 J	< 0.20	2.2 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event	Units: PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-16D	2006 04 (Winter)	< 0.64	< 2.6	< 0.64	< 0.64	< 0.64	< 0.64	< 1.3	< 0.64	< 0.64	< 0.64	< 0.64	< 2.6	< 0.64	< 0.64 UJ	< 0.64
		2006 03 (Fall)	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.4	< 0.72	< 0.72	< 0.72	1.2	< 2.9	< 0.72	< 0.72 UJ	< 0.72
		2006 01 (Spring)	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67	1.0	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	2.8	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2002 03 (Fall)	0.52	0.67 J	< 0.40	< 0.80	0.29 J	< 0.40	< 2.0 UJ	< 0.40 UJ	< 0.40	< 0.40	0.88 J	< 0.80	< 0.80	< 0.40	< 0.40
	OU5-SG-16S	2007 01 (Spring)	< 0.68	< 2.7	< 0.68	1.2	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	2.9	< 2.7	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	< 0.72	0.38 J	< 0.72	< 0.72	< 0.72	< 0.72	< 1.4	< 0.72	< 0.72	< 0.72	0.82	< 2.9	< 0.72	< 0.72 UJ	< 0.72
		2006 03 (Fall)	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.8	< 2.8	< 0.70	< 0.70 UJ	< 0.70
		2006 02 (Summer)	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	1.1	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 01 (Spring)	2.0	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.1	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	1.2	< 2.8	< 0.70	< 0.70	3.8	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2004 01 (Spring)	1.2	0.099 J	< 0.20	0.032 J	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.33 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	3.4	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.98 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 7.0	< 7.0	< 7.0	< 1.0	< 1.0
		2003 02 (Summer)	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-16S	2002 04 (Winter)	0.66	< 0.0018	< 0.0008	< 0.0008	0.0001 J	-	22.0	0.37	1.1	0.11 J	0.54	4.4	0.16 J	< 0.20
		2002 03 (Fall)	0.11	< 0.0017	< 0.0008	< 0.0008	0.0002 J	-	23.0	1.1	8.6	1.3	9.4	< 0.50 UJ	11.0	< 0.20
	OU5-SG-17D	2007 01 (Spring)	5.0	< 0.014	< 0.0014	< 0.0014	< 0.0001	78.0	17.0	< 0.68	< 0.68	1.6	7.3	< 6.8	< 0.68	< 0.68
		2006 04 (Winter)	2.4	< 0.013	< 0.0013	< 0.0013	< 0.0001	79.0	19.0	< 0.65	6.0	14.0	74.0	< 6.5	< 0.65	< 0.65
		2006 03 (Fall)	2.3	< 0.014	< 0.0014	< 0.0014	0.0005	78.0	20.0	< 0.70	4.2	13.0	66.0	< 7.0	< 0.70 UJ	< 0.70
		2006 02 (Summer)	-	-	-	-	-	-	-	64.0	57.0	200	94.0	110 J	< 0.70	15.0
		2006 01 (Spring)	8.6	< 0.014	< 0.0014	< 0.0014	0.0059	77.0	14.0	< 0.70	< 0.70	< 0.70	0.90 J	< 7.0 UJ	< 0.70	< 0.70
		2005 02 (Summer)	5.2	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	17.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.74	1.2	< 0.74	0.86	< 7.4	< 0.74	< 0.74
		2002 03 (Fall)	1.5	< 0.0018	< 0.0008	< 0.0008	0.76	-	21.0	0.36	0.87	0.15 J	0.64	< 0.50 UJ	0.25 J	< 0.20
	OU5-SG-17S	2007 01 (Spring)	0.35	< 0.013	< 0.0013	< 0.0013	0.0002	79.0	21.0	< 0.67	< 0.67	< 0.67	0.76	< 6.7	< 0.67	< 0.67
		2006 04 (Winter)	1.4	< 0.013	< 0.0013	< 0.0013	0.0002	79.0	20.0	< 0.66	2.9	1.6	8.9	< 6.6	< 0.66	< 0.66
		2006 03 (Fall)	0.94	< 0.014	< 0.0014	< 0.0014	< 0.0001	78.0	21.0	< 0.68	2.9	10.0	51.0	< 6.8	< 0.68 UJ	< 0.68
		2006 02 (Summer)	-	-	-	-	-	-	-	9.1	8.8	7.1	12.0	< 42.0 UJ	< 4.2	8.1
		2006 01 (Spring)	3.0	< 0.014	< 0.0014	< 0.0014	< 0.0001	78.0	19.0	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8 UJ	< 0.68	< 0.68
		2005 02 (Summer)	1.4	< 0.013	< 0.0013	< 0.0013	0.0001	78.0	21.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
	Well No.	Event	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Units:		PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-16S	2002 04 (Winter)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	4.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 03 (Fall)	0.27	0.42	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.7	< 0.20	< 0.20	< 0.20	0.097 J	< 0.40
	OU5-SG-17D	2007 01 (Spring)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	160	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	5.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
		2006 03 (Fall)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	17.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 02 (Summer)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	92.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70	18.0	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	8.8	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
		2002 03 (Fall)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	6.9	< 0.20	< 0.20	< 0.20	0.086 J	< 0.40
	OU5-SG-17S	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	170	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	8.9	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	14.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 02 (Summer)	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	1800 J	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2006 01 (Spring)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68 UJ	< 0.68	< 0.68	12.0	< 0.68	< 0.68 UJ	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	3.5	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-16S	2002 04 (Winter)	0.14 J	0.48	< 0.20	< 0.40	0.17 J	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.72 J	< 0.40 UJ	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	0.22	0.46	< 0.20	0.11 J	0.31	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 0.20 J	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-17D	2007 01 (Spring)	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	4.7	< 2.7	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	0.90	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	0.76	< 2.6	< 0.65	< 0.65 UJ	< 0.65
		2006 03 (Fall)	1.8	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.7	< 2.8	< 0.70	< 0.70 UJ	< 0.70
		2006 02 (Summer)	2.3	< 2.8	< 0.70	5.8	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	3.5	< 2.8	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.0	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	1.3	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	< 0.74	1.2 J	< 0.74	-	< 0.74	< 0.74	9.5	< 0.74	< 0.74	< 0.74	0.90	< 3.0	< 0.74	< 0.74	< 0.74
		2002 03 (Fall)	0.20	0.46	< 0.20	< 0.40	0.17 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-17S	2007 01 (Spring)	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	4.1	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.66	< 2.6	< 0.66	< 0.66	4.5	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	1.2	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	0.76	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	0.69	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 02 (Summer)	< 4.2	< 17.0	< 4.2	< 4.2	< 4.2	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 17.0	< 4.2	< 4.2	< 4.2
		2006 01 (Spring)	1.5	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	1.8	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66 UJ	< 0.66	< 0.66

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Well No.	Event	Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-17S	2005 01 (Spring)		3.1	< 0.013	< 0.0013	< 0.0013	< 0.0001	76.0	20.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67
		2004 04 (Winter)		-	-	-	-	-	-	-	< 0.80	1.4	< 0.80	2.2	< 8.0	< 0.80	< 0.80
		2004 02 (Summer)		-	-	-	-	-	-	-	0.12 J	0.43	0.11 J	0.71	1.3	< 1.0	< 0.20
		2004 01 (Spring)		-	-	-	-	-	-	-	0.37	3.8	0.56	3.3	19.0	< 1.0	0.14 J
		2003 04 (Winter)		5.3	< 0.0017	< 0.0008	< 0.0008	< 0.0003	-	79.0	< 0.20	0.35	0.10 J	0.54	0.65	< 1.0 UJ	< 0.20
		2003 03 (Fall)		2.8	< 0.0010	< 0.0010	< 0.0010	0.0001	-	19.0	< 1.0	1.1	< 1.0	2.0	34.0	< 1.0	< 1.0
		2003 02 (Summer)		-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	319	< 4.0	< 4.0
		2003 01 (Spring)		4.3	< 0.0017	< 0.0008	< 0.0008	< 0.0003	-	18.0	< 0.20	0.16 J	< 0.20	< 0.50	3.5 J	< 1.0	< 0.20
		2002 04 (Winter)		3.9	< 0.0016	< 0.0008	< 0.0008	< 0.0003	-	17.0	< 0.20	0.22 J	< 0.20	< 0.50	13.0	< 1.0	0.23
		2002 03 (Fall)		4.8	< 0.0018	< 0.0008	< 0.0008	0.0017	-	18.0	< 0.20	0.21 J	< 0.20	< 0.50	< 0.50 UJ	< 1.0	< 0.20
	OU5-SG-18D	2007 01 (Spring)		4.5	< 0.014	< 0.0014	< 0.0014	2.6	91.0	1.5	< 0.68	< 0.68	< 0.68	1.9	< 6.8	< 0.68	< 0.68
		2006 04 (Winter)		6.1	< 0.013	< 0.0013	< 0.0013	7.0	86.0	1.2	< 0.66	2.9	2.0	10.0	< 6.6	< 0.66	< 0.66
		2006 03 (Fall)		6.8	< 0.014	< 0.0014	< 0.0014	2.1	90.0	1.4	< 0.70	3.5	12.0	59.0	< 7.0	< 0.70 UJ	< 0.70
		2006 01 (Spring)		3.6	< 0.014	0.0027	< 0.0014	5.4	90.0	1.3	9.1	750	270	1200 J	< 43.0 UJ	< 4.3	< 4.3
		2005 02 (Summer)		6.1	< 0.013	< 0.0013	< 0.0013	2.9	90.0	1.4	< 0.66	< 0.66	1.0	2.6	< 6.6	< 0.66	< 0.66
		2004 04 (Winter)		-	-	-	-	-	-	-	< 0.78	< 0.78	0.89	3.4	< 7.8	< 0.78	< 0.78

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Well No.	Event	Units: PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-17S	2005 01 (Spring)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	7.7	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.1	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2004 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	4.8	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 04 (Winter)	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.0 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	0.80	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 04 (Winter)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.3	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 03 (Fall)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.0	< 0.20	< 0.20	< 0.20	< 0.040 J	< 0.40
	OU5-SG-18D	2007 01 (Spring)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	55.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	2.7	25.0	< 0.66	1.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	14.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	5.6	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 01 (Spring)	91.0	31.0	< 4.3	11.0	< 4.3	< 4.3	< 4.3 UJ	13.0	< 4.3	390	< 4.3	< 4.3 UJ	< 4.3	< 4.3	12.0
		2005 02 (Summer)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	14.0	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event	Units: PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-17S	2005 01 (Spring)	1.9	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.80	< 3.2	< 0.80	-	< 0.80	< 0.80	< 1.0	< 0.80	< 0.80	< 0.80	0.88	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	2.8	0.25 J	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.46 J	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	1.8	0.53	< 0.20	0.071 J	< 0.20	0.095 J	< 1.0	< 0.20	< 0.20	< 0.20	0.84 J	< 0.40	0.43	< 0.20	< 0.20
		2003 04 (Winter)	1.4	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.58 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 02 (Summer)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 01 (Spring)	0.96	0.17 J	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	0.56	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.36 J	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	1.0	0.18 J	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.35 J	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-18D	2007 01 (Spring)	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	1.4	< 2.7	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	< 0.66	< 2.6	< 0.66	0.92	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.70	< 2.8	< 0.70	1.1	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70 UJ	< 0.70
		2006 01 (Spring)	< 4.3	24.0	< 4.3	7.9	12.0	42.0	< 8.5	< 4.3	< 4.3	< 4.3	69.0	< 17.0	4.3	< 4.3	< 4.3
		2005 02 (Summer)	< 0.66	< 2.6	< 0.66	0.85	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	< 0.78	< 3.1	< 0.78	-	< 0.78	< 0.78	< 1.0	< 0.78	< 0.78	< 0.78	1.3	< 3.1	< 0.78	< 0.78	< 0.78

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-18D	2004 02 (Summer)	-	-	-	-	-	-	-	< 2.0	2.0	2.4	6.3	1.5 J	< 2.0	< 2.0
		2004 01 (Spring)	-	-	-	-	-	-	-	< 2.1	< 3.2	2.6	7.5	21.0	< 11.0	< 2.1
		2003 04 (Winter)	5.3	< 0.0018	0.0020	< 0.0009	17.0	-	1.3	< 2.0	< 2.0	< 2.0	< 2.0	1.1 J	< 2.0	< 2.0
		2003 03 (Fall)	5.5	< 0.0010	< 0.0010	< 0.0010	3.3	-	2.7	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 23.0	< 23.0	< 23.0	< 23.0	69.0 J	< 23.0	< 23.0
		2003 01 (Spring)	4.8	< 0.0014	< 0.0007	< 0.0007	0.0036	-	15.0	< 1.8	< 2.7	1.5 J	6.4	7.2 J	< 9.0	< 1.8
		2002 03 (Fall)	2.8	< 0.0018	< 0.0008	0.0005 J	1.9	-	17.0	0.71	2.4	2.4	8.6	0.41 J	0.72 J	< 0.20
	OU5-SG-18S	2007 01 (Spring)	0.92	< 0.014	< 0.0014	< 0.0014	< 0.0001	79.0	20.0	< 0.68	0.87	3.2	16.0	< 6.8	< 0.68	< 0.68
		2006 04 (Winter)	0.88	< 0.013	< 0.0013	< 0.0013	0.0015	78.0	21.0	< 0.66	0.72	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2006 03 (Fall)	0.70	< 0.014	< 0.0014	< 0.0014	0.0002	78.0	21.0	< 1.4	5.6	4.5	22.0	< 14.0	< 1.4	< 1.4
		2006 01 (Spring)	1.5	< 0.014	< 0.0014	< 0.0014	0.0003	79.0	19.0	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0 UJ	< 0.70	< 0.70
		2005 02 (Summer)	0.78	< 0.013	< 0.0013	< 0.0013	0.0003	78.0	21.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2005 01 (Spring)	0.89	< 0.013	< 0.0013	< 0.0013	0.0002	79.0	20.0	< 0.67	0.84	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.79	1.1	< 0.79	0.80	< 7.9	< 0.79	< 0.79
		2004 02 (Summer)	-	-	-	-	-	-	-	0.20	0.51	0.21	1.2	2.6	< 1.0	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	< 0.20	0.71	0.30	1.7	16.0	< 1.0	< 0.20

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-18D	2004 02 (Summer)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.3 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
		2004 01 (Spring)	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 8.5	< 2.1	< 2.1	< 2.1	< 2.1	< 4.2
		2003 04 (Winter)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	7.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 120	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0
		2003 01 (Spring)	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8 UJ	3.1 J	< 1.8	< 1.8	< 1.8	< 1.8	< 3.6
		2002 03 (Fall)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.80	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
	OU5-SG-18S	2007 01 (Spring)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	34.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	12.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 39.0	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70	8.1	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	2.7	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	5.6	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	13.0	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	0.16 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	7.6	< 0.20	< 0.20	< 0.20	0.058 J	< 0.40
		2004 01 (Spring)	0.094 J	0.35	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.7	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-18D	2004 02 (Summer)	< 2.0	< 4.0	< 2.0	1.0 J	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2004 01 (Spring)	< 2.1	< 4.2	< 2.1	0.77 J	< 2.1	< 2.1	< 11.0	< 2.1	< 2.1	< 2.1	< 11.0	< 4.2	< 4.2	< 2.1	< 2.1
		2003 04 (Winter)	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 02 (Summer)	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 120	< 120	< 120	< 23.0	< 23.0
		2003 01 (Spring)	< 1.8	< 3.6	< 1.8	0.80 J	< 1.8	< 1.8	< 9.0	< 1.8	< 1.8	< 1.8	< 9.0	< 3.6	< 3.6	< 1.8	< 1.8
		2002 03 (Fall)	< 0.20	< 0.40	< 0.20	1.1	0.17 J	0.33	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-18S	2007 01 (Spring)	2.2	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	2.0	< 2.7	< 0.68	< 0.68	< 0.68
		2006 04 (Winter)	0.70	< 2.6	< 0.66	< 0.66	4.9	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	1.2	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 1.4	< 5.6	< 1.4	< 1.4	< 1.4	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	16.0	< 5.6	< 1.4	< 1.4 UJ	< 1.4
		2006 01 (Spring)	1.8	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.0	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	1.8	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	2.1	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.79	< 3.2	< 0.79	-	< 0.79	< 0.79	19.0	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	5.5	1.4	< 0.20	0.056 J	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.48 J	< 0.40	0.66	< 0.20	< 0.20
		2004 01 (Spring)	3.7	0.086 J	< 0.20	0.072 J	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.76 J	< 0.40	0.28 J	< 0.20	< 0.20

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Well No.	Event	Units: %V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-18S	2003 04 (Winter)	1.5	< 0.0018	< 0.0009	< 0.0009	0.0003	-	19.0	< 0.22	0.28 J	0.23	1.0	1.5	< 1.1 UJ	< 0.22
		2003 03 (Fall)	1.1	< 0.0010	< 0.0010	< 0.0010	0.0005	-	20.0	< 4.0	< 4.0	< 4.0	< 4.0	65.3	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	154	< 1.0	< 1.0
		2003 01 (Spring)	2.0	< 0.0015	< 0.0007	< 0.0007	< 0.0002	-	20.0	< 0.20	1.6	0.18 J	1.0	10.0 J	0.39 J	< 0.20
		2002 04 (Winter)	2.2	< 0.0017	< 0.0008	< 0.0008	< 0.0001 J	-	18.0	0.11 J	1.6	0.11 J	0.61	9.9	0.11 J	0.14 J
		2002 03 (Fall)	1.5	< 0.0018	< 0.0008	< 0.0008	0.0002 J	-	20.0	< 0.20	< 0.30	< 0.20	< 0.50	0.15 J	0.49 J	< 0.20
	OU5-SG-19D	2007 01 (Spring)	4.4	< 0.013	< 0.0013	< 0.0013	42.0	49.0	4.7	< 0.67	< 0.67	1.7 J	7.8 J	< 6.7	< 0.67	< 0.67
		2006 04 (Winter)	0.87	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	21.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2006 03 (Fall)	0.38	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.66	8.8	30.0	120	< 6.6	< 0.66 UJ	< 0.66
		2006 02 (Summer)	-	-	-	-	-	-	-	6.0	7.9	27.0	14.0	47.0 J	< 1.4	14.0
		2006 01 (Spring)	3.8	< 0.015	< 0.0015	< 0.0015	23.0	63.0	10.0	< 0.73	< 0.73	< 0.73	< 0.73	< 7.3 UJ	< 0.73	< 0.73
		2005 02 (Summer)	4.1	< 0.013	< 0.0013	< 0.0013	46.0	46.0	2.9	< 2.7	< 2.7	< 2.7	< 2.7	< 27.0	< 2.7	< 2.7
		2004 04 (Winter)	-	-	-	-	-	-	-	1.3	2.8	< 0.74	1.5	< 7.4	< 0.74	< 0.74
		2004 02 (Summer)	-	-	-	-	-	-	-	1.1 J	1.6 J	1.2 J	1.5 J	1.1 J	< 2.0	< 2.0
		2003 04 (Winter)	3.5	< 0.0018	< 0.0009	< 0.0009	18.0	-	13.0	< 2.0	< 2.0	< 2.0	< 2.0	0.66 J	< 2.0	< 2.0
		2003 03 (Fall)	1.7	< 0.0010	< 0.0010	< 0.0010	2.3	-	17.0	< 5.0	< 5.0	< 5.0	< 5.0	87.5	< 5.0	< 5.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Well No.	Event	Units: PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-18S	2003 04 (Winter)	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	2.4 J	< 0.22	< 0.22	< 0.22	< 0.22	< 0.43
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 22.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	33.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	7.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 04 (Winter)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	2.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 03 (Fall)	< 0.20	0.49	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	4.4	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
	OU5-SG-19D	2007 01 (Spring)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	23.0 J	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	43.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	24.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 02 (Summer)	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	170	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
		2006 01 (Spring)	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73 UJ	< 0.73	< 0.73	83.0	< 0.73	< 0.73 UJ	< 0.73	< 0.73	< 0.73
		2005 02 (Summer)	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 11.0	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
		2004 04 (Winter)	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	8.4	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
		2003 04 (Winter)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	77.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	27.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
	Well No.	Event	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-18S	2003 04 (Winter)	3.2	< 0.43	< 0.22	0.059 J	< 0.22	< 0.22	< 1.1	< 0.22	< 0.22	< 0.22	0.68 J	< 0.43	< 0.43	< 0.22	< 0.22
		2003 03 (Fall)	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 22.0	< 22.0	< 22.0	< 4.0	< 4.0
		2003 02 (Summer)	11.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	3.5	< 0.40	< 0.20	< 0.40	0.080 J	0.22	< 1.0	< 0.20	< 0.20	< 0.20	6.8	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	2.1	0.089 J	< 0.20	< 0.40	0.41	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.23 J	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	4.9	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.78 J	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-19D	2007 01 (Spring)	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	1.6 J	< 2.7	< 0.67	< 0.67	< 0.67
		2006 04 (Winter)	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	6.9	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 02 (Summer)	< 1.4	< 5.6	< 1.4	1.5	< 1.4	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	3.4	< 5.6	< 1.4	< 1.4	< 1.4
		2006 01 (Spring)	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	< 1.5	< 0.73	< 0.73	< 0.73	1.5	< 2.9	< 0.73	< 0.73	< 0.73
		2005 02 (Summer)	< 2.7	< 11.0	< 2.7	< 2.7	< 2.7	< 2.7	< 1.0	< 2.7	< 2.7	< 2.7	< 2.7	< 11.0 UJ	< 2.7	< 2.7	< 2.7
		2004 04 (Winter)	< 0.74	1.5 J	< 0.74	-	< 0.74	< 0.74	< 1.0	< 0.74	< 0.74	< 0.74	1.2	< 3.0	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25.0	< 25.0	< 25.0	< 5.0	< 5.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Well No.	Event Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-19D	2003 02 (Summer)	-	-	-	-	-	-	-	< 22.0	< 22.0	< 22.0	< 22.0	67.0 J	< 22.0	26.0
		2003 01 (Spring)	1.5	< 0.0023	< 0.0012	< 0.0012	22.0	-	16.0	< 2.0	2.5	1.2 J	3.8	1.7 J	1.6 J	< 2.0
		2002 04 (Winter)	0.17	< 0.0045	< 0.0022	< 0.0022	1.3	-	21.0	0.52	3.3	0.64	3.0	12.0	0.55 J	6.1
		2002 03 (Fall)	0.98	< 0.0017	< 0.0008	< 0.0008	3.4	-	21.0	0.28	0.30	0.36 J	1.4 J	< 0.50 UJ	31.0	< 0.20
	OU5-SG-19S	2007 01 (Spring)	0.48	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	21.0	< 0.66	2.2	7.1	34.0	< 6.6	< 0.66	< 0.66
		2006 04 (Winter)	6.7	< 0.013	< 0.0013	< 0.0013	18.0	74.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0
		2006 03 (Fall)	0.38	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	22.0	< 0.66	3.5	10.0	49.0	< 6.6	< 0.66 UJ	< 0.66
		2006 02 (Summer)	-	-	-	-	-	-	-	3.0	28.0	4.3	15.0	< 11.0 UJ	< 1.1	4.5
		2006 01 (Spring)	1.4	< 0.014	< 0.0014	< 0.0014	0.0002	80.0	19.0	< 0.72	< 0.72	< 0.72	< 0.72	< 7.2 UJ	< 0.72	< 0.72
		2005 02 (Summer)	-	-	-	-	-	-	-	< 0.70	6.0	8.7	39.0	< 7.0	< 0.70	< 0.70
		2005 01 (Spring)	3.3	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	18.0	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	0.91	1.8	< 0.80	1.6	< 8.0	< 0.80	< 0.80
		2004 02 (Summer)	-	-	-	-	-	-	-	0.57	0.46	0.12 J	0.82	1.8	< 1.0	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	< 0.20	0.42	0.20	1.1	22.0	< 1.0	0.15 J
		2003 04 (Winter)	5.0	< 0.0019	< 0.0009	< 0.0009	0.14	-	15.0	< 19.0	< 19.0	< 19.0	< 19.0	< 47.0	< 19.0	< 19.0
		2003 03 (Fall)	0.58	< 0.0010	< 0.0010	< 0.0010	0.0004	-	21.0	< 5.0	< 5.0	< 5.0	< 5.0	67.0	< 5.0	< 5.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
	Well No.	Event	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Units:		PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-19D	2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	18.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
		2002 04 (Winter)	0.21 J	0.21 J	0.39	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	18.0	< 0.30	< 0.30	< 0.30	< 0.30	< 0.60
		2002 03 (Fall)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.0	< 0.20	< 0.20	< 0.20	0.072 J	< 0.40
	OU5-SG-19S	2007 01 (Spring)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	36.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 04 (Winter)	< 1.0	38.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	31.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2006 03 (Fall)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	6.5	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 02 (Summer)	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	100	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
		2006 01 (Spring)	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72 UJ	< 0.72	< 0.72	33.0	< 0.72	< 0.72 UJ	< 0.72	< 0.72	< 0.72
		2005 02 (Summer)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	6.7	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2005 01 (Spring)	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	5.0	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	44.0	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	6.4	< 0.20	< 0.20	< 0.20	0.081 J	< 0.40
		2004 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3.4	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 04 (Winter)	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	4100	< 19.0	< 19.0	< 19.0	< 19.0	< 38.0
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 23.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-19D	2003 02 (Summer)	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	4.5 J	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	< 0.30	0.57 J	< 0.30	0.81	1.8	0.14 J	< 1.5	< 0.30	< 0.30	< 0.30	3.1	< 0.60	< 0.60	< 0.30	< 0.30
		2002 03 (Fall)	0.50	0.26 J	< 0.20	< 0.40	0.17 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-19S	2007 01 (Spring)	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	2.0	< 2.6	< 0.66	< 0.66	< 0.66
		2006 04 (Winter)	< 1.0	< 4.2	< 1.0	< 1.0	< 1.0	< 1.0	< 2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 4.2	< 1.0	< 1.0 UJ	< 1.0
		2006 03 (Fall)	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	1.2	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 02 (Summer)	< 1.1	< 4.4	< 1.1	< 1.1	< 1.1	< 1.1	< 2.2	< 1.1	< 1.1	< 1.1	2.1	< 4.4	< 1.1	< 1.1	< 1.1
		2006 01 (Spring)	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.4	< 0.72	< 0.72	< 0.72	0.81	< 2.9	< 0.72	< 0.72	< 0.72
		2005 02 (Summer)	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 01 (Spring)	< 0.67	< 2.7	< 0.67	< 0.67	2.7	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	< 0.80	< 3.2	< 0.80	-	< 0.80	< 0.80	26.0	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	0.56	0.29 J	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.50 J	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	1.2	0.28 J	< 0.20	0.045 J	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.60 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	< 19.0	< 38.0	< 19.0	< 19.0	< 19.0	< 19.0	< 94.0	< 19.0	< 19.0	< 19.0	< 94.0	< 94.0	< 94.0	< 19.0	< 19.0
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 23.0	< 23.0	< 23.0	< 5.0	< 5.0

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
	Well No.	Event	Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Units:		%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-19S	2003 02 (Summer)	-	-	-	-	-	-	-	1.0	2.0	< 1.0	1.0	56.0 J	1.0	< 1.0
		2003 01 (Spring)	2.9	< 0.0016	< 0.0007	< 0.0007	0.0012	-	20.0	< 0.20	0.65 J	0.18 J	1.2 J	8.1 J	< 1.0	< 0.20
		2002 04 (Winter)	1.9	< 0.0018	< 0.0009	< 0.0009	0.038	-	21.0	< 0.45	0.62 J	< 0.45	0.85 J	59.0	< 2.2	2.5
		2002 03 (Fall)	0.74	< 0.0018	< 0.0009	< 0.0009	0.48	-	23.0	0.20	0.47	0.15 J	0.76	< 0.50 UJ	15.0	< 0.20
	OU5-SG-20D	2006 03 (Fall)	0.91	< 0.014	< 0.0014	< 0.0014	2.3	77.0	20.0	3.8	7.2	18.0	43.0	< 6.8	< 0.68	< 0.68
		2006 02 (Summer)	-	-	-	-	-	-	-	5600	1600	2800	1000	< 140 UJ	< 14.0	30.0
		2004 04 (Winter)	-	-	-	-	-	-	-	0.85	27.0	< 0.70	1.4	< 7.0	< 0.70	< 0.70
		2003 03 (Fall)	22.0	< 0.0010	< 0.0010	< 0.0010	60.0	-	1.0	1750	804	1020	947	< 2600	< 5.0	< 5.0
		2002 03 (Fall)	5.2	< 0.0017	< 0.0008	< 0.0008	0.31	-	15.0	0.17 J	0.54	0.15 J	1.4	0.27 J	220	< 0.20
	OU5-SG-20S	2006 04 (Winter)	2.7	< 0.013	< 0.0013	< 0.0013	< 0.0001	80.0	17.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2006 03 (Fall)	5.1	< 0.014	< 0.0014	< 0.0014	0.0007	78.0	17.0	0.75	5.2	12.0	42.0	< 7.0	< 0.70	< 0.70
		2006 02 (Summer)	-	-	-	-	-	-	-	82.0	21.0	17.0	26.0	< 29.0 UJ	< 2.9	12.0
		2006 01 (Spring)	7.8	< 0.014	< 0.0014	< 0.0014	< 0.0001	78.0	14.0	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0 UJ	< 0.70	< 0.70
		2005 02 (Summer)	6.3	< 0.013	< 0.0013	< 0.0013	< 0.0001	78.0	16.0	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66
		2005 01 (Spring)	0.041	< 0.014	< 0.0014	< 0.0014	0.0003	79.0	21.0	< 0.70	0.83	< 0.70	0.73	< 7.0	< 0.70	< 0.70
		2004 04 (Winter)	-	-	-	-	-	-	-	22.0	< 0.73	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
	Well No.	Event	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Units:		PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-19S	2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	26.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	2.1	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 04 (Winter)	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	8.1	< 0.45	< 0.45	< 0.45	< 0.45	< 0.90
		2002 03 (Fall)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	4.2	< 0.20	< 0.20	< 0.20	0.087 J	< 0.40
	OU5-SG-20D	2006 03 (Fall)	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	18.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2006 02 (Summer)	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	160	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	7.2	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	70.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2002 03 (Fall)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.12 J	< 0.20	< 0.20	< 0.20	1.2	< 0.20	< 0.20	< 0.20	0.057 J	< 0.40
	OU5-SG-20S	2006 04 (Winter)	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	45.0	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2006 03 (Fall)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	26.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2006 02 (Summer)	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	650	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
		2006 01 (Spring)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70	23.0	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	1.3	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	2.9	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	5.7	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-19S	2003 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	0.79	0.23 J	< 0.20	< 0.40	0.086 J	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.32 J	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	1.9	< 0.90	< 0.45	0.32 J	< 0.45	< 0.45	< 2.2	< 0.45	< 0.45	< 0.45	1.1 J	< 0.90	< 0.90	< 0.45	< 0.45
		2002 03 (Fall)	0.69	0.36 J	< 0.20	< 0.40	0.14 J	0.062 J	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	0.90 J	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-20D	2006 03 (Fall)	< 0.68	< 2.7	< 0.68	1.4	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	1.8	< 2.7	< 0.68	< 0.68 UJ	< 0.68
		2006 02 (Summer)	< 14.0	< 56.0	< 14.0	63.0	< 14.0	< 14.0	< 28.0	< 14.0	< 14.0	< 14.0	< 14.0	< 56.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	< 0.70	< 2.8	< 0.70	-	< 0.70	< 0.70	7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 520	< 5.0	45.0	< 5.0	< 5.0	< 5.0	< 5.0	< 26.0	< 26.0	< 26.0	< 5.0	< 5.0
		2002 03 (Fall)	0.21	< 0.40	< 0.20	0.087 J	0.15 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	0.54	< 0.20	< 0.20
	OU5-SG-20S	2006 04 (Winter)	0.70	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.3	< 0.66	< 0.66	< 0.66	0.89	< 2.6	< 0.66	< 0.66 UJ	< 0.66
		2006 03 (Fall)	0.95	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	1.5	< 2.8	< 0.70	< 0.70 UJ	< 0.70
		2006 02 (Summer)	< 2.9	< 12.0	< 2.9	< 2.9	< 2.9	< 2.9	< 5.8	< 2.9	< 2.9	< 2.9	< 2.9	< 12.0	< 2.9	< 2.9	< 2.9
		2006 01 (Spring)	1.2	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.4	< 0.70	< 0.70	< 0.70	0.92	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	3.8	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66 UJ	< 0.66	< 0.66
		2005 01 (Spring)	< 0.70	0.54	< 0.70	< 0.70	< 0.70	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	< 0.73	< 2.9	< 0.73	-	< 0.73	< 0.73	< 1.0	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds						
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene
	Well No.	Event / Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-20S	2004 02 (Summer)	-	-	-	-	-	-	-	18.0	6.1	26.0	28.0	3.2	< 1.0	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	7.7	2.5	2.0	1.9	19.0	< 1.0	0.15 J
		2003 04 (Winter)	6.3	< 0.0018	< 0.0009	< 0.0009	0.0023	-	14.0	5.0	4.5	2.2	6.5	1.1	< 1.0 UJ	< 0.20
		2003 03 (Fall)	4.5	< 0.0010	< 0.0010	< 0.0010	0.26	-	12.0	82.0	79.0	200	228	204 J	< 5.0	< 5.0
		2003 02 (Summer)	-	-	-	-	-	-	-	45.0	< 30.0	< 30.0	< 30.0	402	< 30.0	< 30.0
		2003 01 (Spring)	4.7	< 0.0014	< 0.0007	< 0.0007	0.0039	-	15.0	0.10 J	1.6	0.46	3.2	13.0 J	< 1.0	< 0.20
		2002 04 (Winter)	2.8	< 0.0017	< 0.0008	< 0.0008	0.0007	-	20.0	0.11 J	0.52	0.12 J	0.56	35.0	< 1.0	1.3
		2002 03 (Fall)	0.25	< 0.0017	< 0.0008	< 0.0008	< 0.0003	-	22.0	0.17 J	0.42	< 0.20	< 0.50	< 0.50 UJ	1.0	< 0.20

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Chlorinated Hydrocarbons									Remaining VOCs					
	Well No.	Event	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane
	Units:		PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-20S	2004 02 (Summer)	1.7	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.62	< 0.20	7.3	0.17 J	< 0.20	< 0.20	0.051 J	< 0.40
		2004 01 (Spring)	0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.30	< 0.20	< 2.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 04 (Winter)	0.28	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.14 J	< 0.20	5.6 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 23.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2003 02 (Summer)	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	214 J	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0
		2003 01 (Spring)	0.72	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.27	< 0.20 UJ	19.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 04 (Winter)	0.23	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.11 J	< 0.20	4.7	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40
		2002 03 (Fall)	0.11 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.6	< 0.20	< 0.20	< 0.20	0.096 J	< 0.40

Table 9.1-8

Groundwater Sample Analytical Results: Soil Gas at Operable Unit 5 - IR Site 25 Group

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs													
			Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
	Well No.	Event / Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
VADOSE	OU5-SG-20S	2004 02 (Summer)	2.0	0.17 J	< 0.20	1.5	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.66 J	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	0.64	0.23 J	< 0.20	0.18 J	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.46 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	0.29	< 0.40	< 0.20	0.21 J	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.28 J	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 5.0	< 5.0	< 5.0	32.0	< 5.0	4.9	< 5.0	< 5.0	< 5.0	< 5.0	< 23.0	< 23.0	< 23.0	< 5.0	< 5.0
		2003 02 (Summer)	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 150	< 150	< 150	< 30.0	< 30.0
		2003 01 (Spring)	0.95	4.5	< 0.20	< 0.40	0.094 J	0.093 J	< 1.0	< 0.20	< 0.20	< 0.20	2.1	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	0.64	< 0.40	< 0.20	0.20 J	0.46	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	0.43 J	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	< 0.20	0.55	< 0.20	< 0.40	0.10 J	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	2	14	100 J	M25-01	04 Apr 2007	10000	M25-02	2002 03 (Fall)
Benzene (UG/L)	12	14	550	P181-MW47	02 Apr 2007	720	P181-MW47	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	2	14	7.5 J	P181-MW47	02 Apr 2007	13.0	M25-01	2003 01 (Spring)
Toluene (UG/L)	11	14	180	M25-01	04 Apr 2007	200 J	M25-01	2004 01 (Spring)
Trichloroethene (UG/L)	1	14	0.10 J	M25-04	13 Oct 2006	3.6 J	M25-05	2003 01 (Spring)
Ethylbenzene (UG/L)	13	14	180	M25-01	04 Apr 2007	220	P181-MW46	2002 04 (Winter)
M,P-xylenes (UG/L)	10	14	140	M25-01	04 Apr 2007	130 J	M25-01	2004 01 (Spring)
Bromoform (UG/L)	1	14	0.10 J	M25-08	16 Oct 2006	--	NA	NA
O-xylene (UG/L)	11	14	76.0	M25-01	04 Apr 2007	81.0	M25-01	2003 04 (Winter)
Naphthalene (UG/L)	12	14	6700	M25-01	04 Apr 2007	6300	M25-01	2005 02 (Summer)
Carbon Disulfide (UG/L)	6	14	4.0 J	P181-MW47	02 Apr 2007	8.0 J	P181-MW46	2004 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	3	14	5.1	M25-09	16 Oct 2006	5.4	M25-09	2006 01 (Spring)
Isopropylbenzene (UG/L)	7	14	2.5 J	P181-MW45	02 Apr 2007	4.1 J	P181-MW46	2002 04 (Winter)
Isopropyl Ether (UG/L)	1	14	1.8	PW-12	16 Oct 2006	3.0	PW-12	2005 02 (Summer)
Methylene Chloride (UG/L)	2	14	40.0 J	M25-01	04 Apr 2007	6.5 J	P181-MW45	2002 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	1	14	0.20 J	M25-02	13 Oct 2006	2.4 J	M25-03	2002 03 (Fall)
n-Propylbenzene (UG/L)	5	14	2.4 J	P181-MW45	02 Apr 2007	4.1 J	P181-MW45	2004 04 (Winter)
p-Isopropyltoluene (UG/L)	2	14	0.50	S-16R	16 Oct 2006	3.8	M25-01	2002 04 (Winter)
Styrene (UG/L)	6	14	16.0 J	M25-01	04 Apr 2007	29.0 J	M25-01	2004 01 (Spring)
Tert-butyl alcohol (UG/L)	1	14	1.4 J	PW-12	16 Oct 2006	23.0 J	M25-04	2003 04 (Winter)
1,2,4-Trichlorobenzene (UG/L)	1	14	0.10 J	M25-04	02 Apr 2007	--	NA	NA
1,2,4-Trimethylbenzene (UG/L)	10	14	43.0	M25-01	04 Apr 2007	28.0 J	M25-01	2004 01 (Spring)
1,3,5-Trimethylbenzene (UG/L)	9	14	17.0 J	M25-01	04 Apr 2007	10.0 J	M25-01	2003 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	12	14	310 J	M25-01	04 Apr 2007	300 J	M25-01	2006 01 (Spring)
Acenaphthylene (UG/L)	10	14	450 J	M25-01	13 Oct 2006	570	M25-01	2004 02 (Summer)
Anthracene (UG/L)	14	14	17.0 J	M25-01	04 Apr 2007	16.0	M25-01	2002 03 (Fall)
Benzo(a)anthracene (UG/L)	13	14	3.0 J	M25-01	04 Apr 2007	2.5	M25-01	2002 03 (Fall)
Benzo(a)pyrene (UG/L)	11	14	5.9 J	M25-01	04 Apr 2007	5.2	M25-01	2003 04 (Winter)
Benzo(b)fluoranthene (UG/L)	11	14	2.9 J	M25-01	04 Apr 2007	2.5	M25-01	2003 04 (Winter)
Benzo(g,h,i)perylene (UG/L)	10	14	5.9 J	M25-01	04 Apr 2007	3.9	M25-01	2003 04 (Winter)
Benzo(k)fluoranthene (UG/L)	9	14	1.3 J	M25-01	04 Apr 2007	1.4	M25-01	2003 04 (Winter)
Chrysene (UG/L)	10	14	9.4 J	M25-01	04 Apr 2007	7.6	M25-01	2003 04 (Winter)
Dibenz(a,h)anthracene (UG/L)	8	14	4.5 J	M25-01	04 Apr 2007	14.0	M25-01	2004 02 (Summer)
Fluoranthene (UG/L)	14	14	22.0 J	M25-01	04 Apr 2007	29.0	M25-01	2003 02 (Summer)
Fluorene (UG/L)	9	14	71.0 J	M25-01	13 Oct 2006	86.0	M25-01	2004 04 (Winter)
Indeno(1,2,3-c,d)pyrene (UG/L)	7	14	3.6 J	M25-01	04 Apr 2007	4.2	M25-01	2002 03 (Fall)
Naphthalene (UG/L)	11	14	5500 J	M25-01	13 Oct 2006	6200	M25-01	2004 04 (Winter)
Phenanthrene (UG/L)	13	14	110 J	M25-01	04 Apr 2007	110	M25-01	2004 04 (Winter)
Pyrene (UG/L)	14	14	22.0 J	M25-01	04 Apr 2007	25.0	M25-01	2002 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (Second Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	1	1	0.57 J	D-02R	03 Apr 2007	0.93 J	D-02R	2006 01 (Spring)
Anthracene (UG/L)	1	1	0.12	D-02R	03 Apr 2007	0.10 J	D-02R	2005 01 (Spring)
Fluoranthene (UG/L)	1	1	0.38	D-02R	03 Apr 2007	0.30	D-02R	2005 01 (Spring)
Fluorene (UG/L)	1	1	0.53	D-02R	03 Apr 2007	0.79	D-02R	2005 02 (Summer)
Naphthalene (UG/L)	1	1	0.38 J	D-02R	03 Apr 2007	2.3 J	D-02R	2005 01 (Spring)
Phenanthrene (UG/L)	1	1	1.4	D-02R	03 Apr 2007	1.5 J	D-02R	2005 01 (Spring)
Pyrene (UG/L)	1	1	0.25	D-02R	03 Apr 2007	0.28	D-02R	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	11	11	14.0	M25-01	04 Apr 2007	18.0	P181-MW46	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	1	1	24.0	D-02R	03 Apr 2007	29.0	D-02	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	11	0.21 J	M25-01	04 Apr 2007	2.7 J	M25-05	2004 01 (Spring)
Arsenic (UG/L)	11	11	17.0	S-16R	16 Oct 2006	150 J	PW-12	2005 02 (Summer)
Barium (UG/L)	11	11	1700	PW-12	16 Oct 2006	1960 J	P181-MW45	2003 02 (Summer)
Cadmium (UG/L)	2	11	0.089 J	M25-01	13 Oct 2006	4.2 J	M25-09	2005 02 (Summer)
Chromium (UG/L)	10	11	11.0	M25-05	13 Oct 2006	19.0	P181-MW45	2002 02 (Summer)
Cobalt (UG/L)	11	11	3.0	P181-MW45	02 Apr 2007	7.5 J	M25-05	2003 04 (Winter)
Copper (UG/L)	5	11	5.4 J	P181-MW45	02 Apr 2007	17.0	S16-2	2004 02 (Summer)
Manganese (UG/L)	11	11	3900 J	M25-09	16 Oct 2006	4900	M25-09	2004 04 (Winter)
Mercury (UG/L)	3	11	0.076 J	M25-01	04 Apr 2007	0.28	PW-12	2004 02 (Summer)
Molybdenum (UG/L)	4	11	2.3 J	S-35R-2	02 Apr 2007	25.2 J	M25-05	2004 01 (Spring)
Nickel (UG/L)	10	11	11.0 J	M25-04	13 Oct 2006	23.0	S-16R	2004 04 (Winter)
Selenium (UG/L)	8	11	0.76 J	M25-01	13 Oct 2006	13.0	M25-02	2002 04 (Winter)
Silver (UG/L)	2	11	0.26 J	M25-04	13 Oct 2006	15.0	S-16	2002 02 (Summer)
Vanadium (UG/L)	11	11	22.0	S-16R	02 Apr 2007	20.0 J	M25-03	2002 04 (Winter)
Zinc (UG/L)	7	11	14.0 J	P181-MW46	16 Oct 2006	24.0	M25-03	2004 02 (Summer)
Aluminum (UG/L)	2	11	20.0 J	P181-MW46	16 Oct 2006	236 J	M25-01	2003 02 (Summer)
Iron (UG/L)	11	11	110000	M25-09	02 Apr 2007	180000	M25-09	2004 04 (Winter)
Calcium (MG/L)	11	11	560	S-16R	02 Apr 2007	580	S-16	2002 02 (Summer)
Magnesium (MG/L)	11	11	1500	S-16R	02 Apr 2007	1800	P181-MW45	2002 02 (Summer)
Potassium (MG/L)	11	11	360	S-16R	02 Apr 2007	417	S16-2	2003 04 (Winter)
Sodium (MG/L)	11	11	11000 J	S-16R	16 Oct 2006	11000	S-16R	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Arsenic (UG/L)	1	1	91.0	D-02R	03 Apr 2007	79.0	D-02R	2006 01 (Spring)
Barium (UG/L)	1	1	1300	D-02R	16 Oct 2006	2500	D-02	2004 04 (Winter)
Cobalt (UG/L)	1	1	3.8	D-02R	03 Apr 2007	4.7	D-02R	2006 01 (Spring)
Manganese (UG/L)	1	1	4900	D-02R	03 Apr 2007	20000	D-02	2004 04 (Winter)
Molybdenum (UG/L)	1	1	1.3 J	D-02R	16 Oct 2006	0.60 J	D-02	2004 04 (Winter)
Nickel (UG/L)	1	1	6.7 J	D-02R	03 Apr 2007	11.0 J	D-02R	2006 01 (Spring)
Zinc (UG/L)	1	1	17.0 J	D-02R	03 Apr 2007	23.0	D-02R	2005 02 (Summer)
Aluminum (UG/L)	1	1	32.0 J	D-02R	16 Oct 2006	92.0 J	D-02R	2005 02 (Summer)
Iron (UG/L)	1	1	21000	D-02R	03 Apr 2007	24400	D-02	2003 02 (Summer)
Calcium (MG/L)	1	1	240	D-02R	03 Apr 2007	610	D-02	2004 04 (Winter)
Magnesium (MG/L)	1	1	420	D-02R	03 Apr 2007	460	D-02R	2006 01 (Spring)
Potassium (MG/L)	1	1	66.0	D-02R	16 Oct 2006	67.0	D-02R	2006 01 (Spring)
Sodium (MG/L)	1	1	2200 J	D-02R	16 Oct 2006	2400	D-02R	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	11	11	3800	S-16R	02 Apr 2007	4280	PW-12	2003 04 (Winter)
Sulfide (MG/L)	8	11	6.4	M25-02	02 Apr 2007	9.7	M25-02	2006 01 (Spring)
Alkalinity, bicarbonate (MG/L)	11	11	3800	S-16R	02 Apr 2007	4280	PW-12	2003 04 (Winter)
Nitrate (MG/L)	1	11	0.21	M25-04	02 Apr 2007	10.5	M25-01	2003 04 (Winter)
Chloride (MG/L)	11	11	18000	S-16R	02 Apr 2007	21000	S-16R	2004 04 (Winter)
Sulfate (as SO4) (MG/L)	9	11	480	PW-12	02 Apr 2007	626	M25-05	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 9.1-9

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 5 - IR Site 25 Group

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 5 - IR Site 25 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	1	1	1500	D-02R	03 Apr 2007	1500	D-02R	2005 02 (Summer)
Alkalinity, bicarbonate (MG/L)	1	1	1500	D-02R	03 Apr 2007	1500	D-02R	2005 02 (Summer)
Chloride (MG/L)	1	1	4500	D-02R	03 Apr 2007	4600	D-02R	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

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FIGURES

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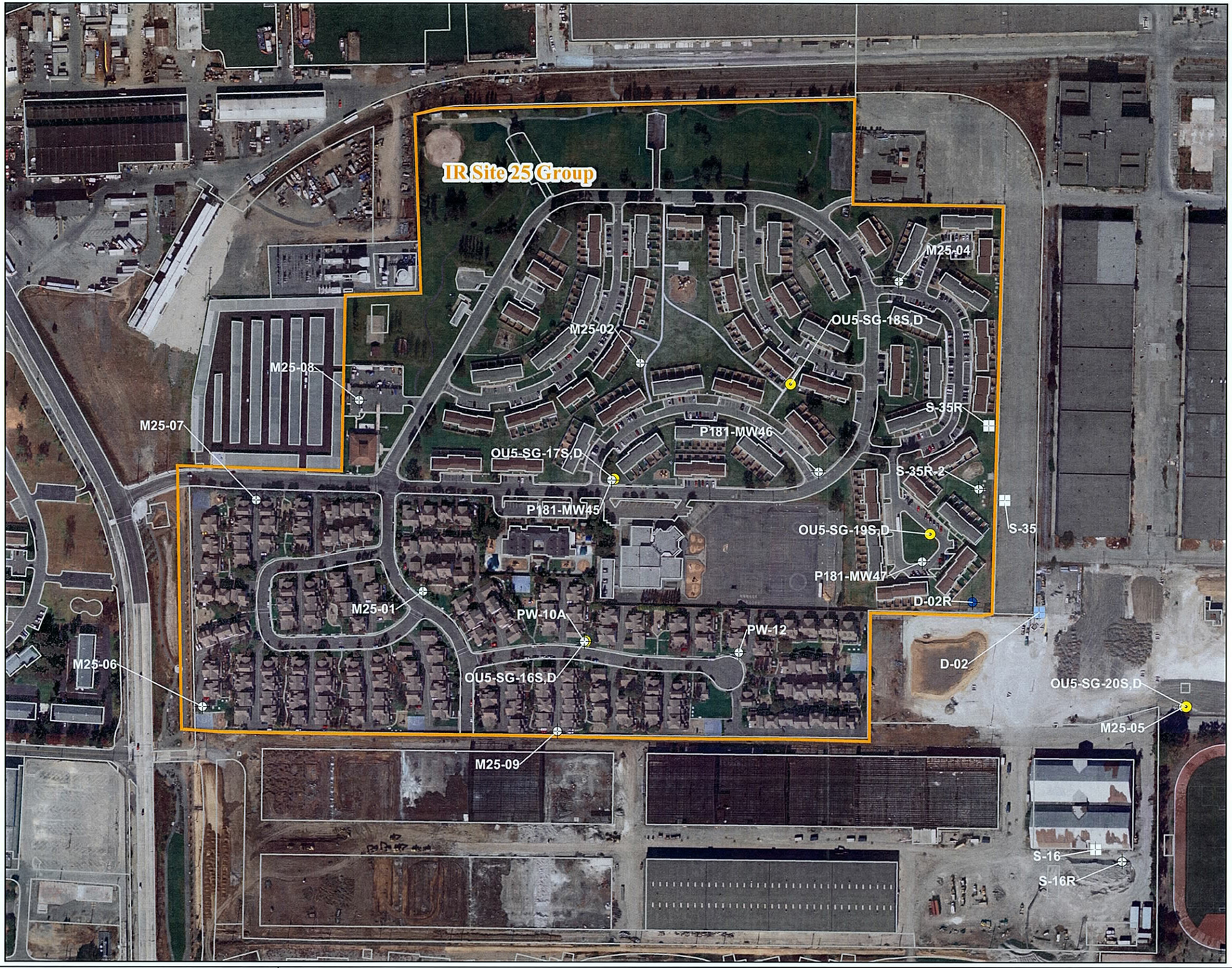
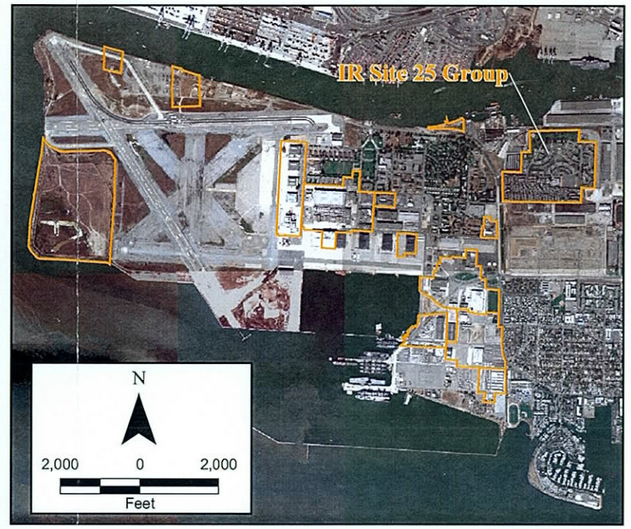
DATED 01 APRIL 2008





Legend

- First Water Bearing Zone FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Abandoned Wells, FWBZ
- Abandoned Wells, SWBZ
- Soil Gas Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

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FIGURE 9.1-1
OPERABLE UNIT 5 - IR SITE 25 GROUP
SITE AND WELL LOCATION MAP

Legend

- First Water Bearing Zone (FWBZ) Well
- Abandoned Well (FWBZ)
- FWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- IR Site Boundary
- Facility Infrastructure

IR Site 25 Group

M25-04 5.24
M25-02 6.39
M25-08 4.79
M25-07 4.42
P181-MW45 6.13
S-35R
S-35R-2 6.18
S-35
P181-MW46 5.78
P181-MW47 5.67
M25-01 5.69
MBG-2 6.50
M25-06 2.35
PW-10A
PW-12 6.25
M25-05 5.26
M25-09 3.06
S-16
S-16R 5.83

N
300 0 300
Feet

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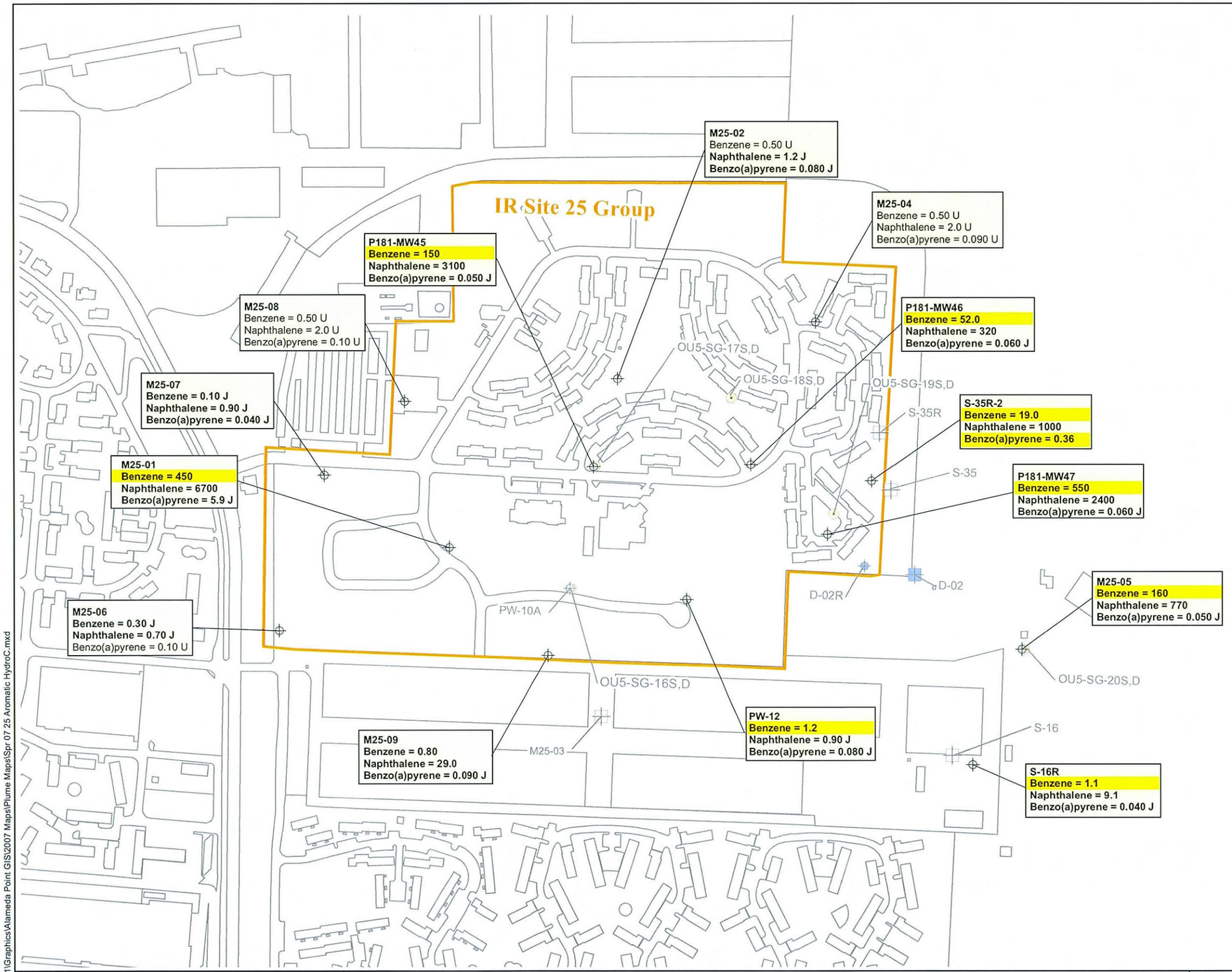
FIGURE 9.1-2
OPERABLE UNIT 5 - IR SITE 25 GROUP
GROUNDWATER ELEVATION MAP (FWBZ)
SPRING 2007



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- FWBZ Well, Not Sampled
- SWBZ Well, Not Sampled
- Soil Gas Well, Not Sampled
- Abandoned Well (FWBZ)
- Abandoned Well (SWBZ)
- IR Site Boundaries
- Facility Infrastructure

J Estimated Value
MCL Maximum Contaminant Level
U Not Detected
ug/L Micrograms per Liter

Results presented in ug/L
Highlighted values exceed MCL

Bold text indicates detected analyte

Analyte	MCL	Units
Benzene	1.0	UG/L
Naphthalene	--	UG/L

N

400 0 400

Feet

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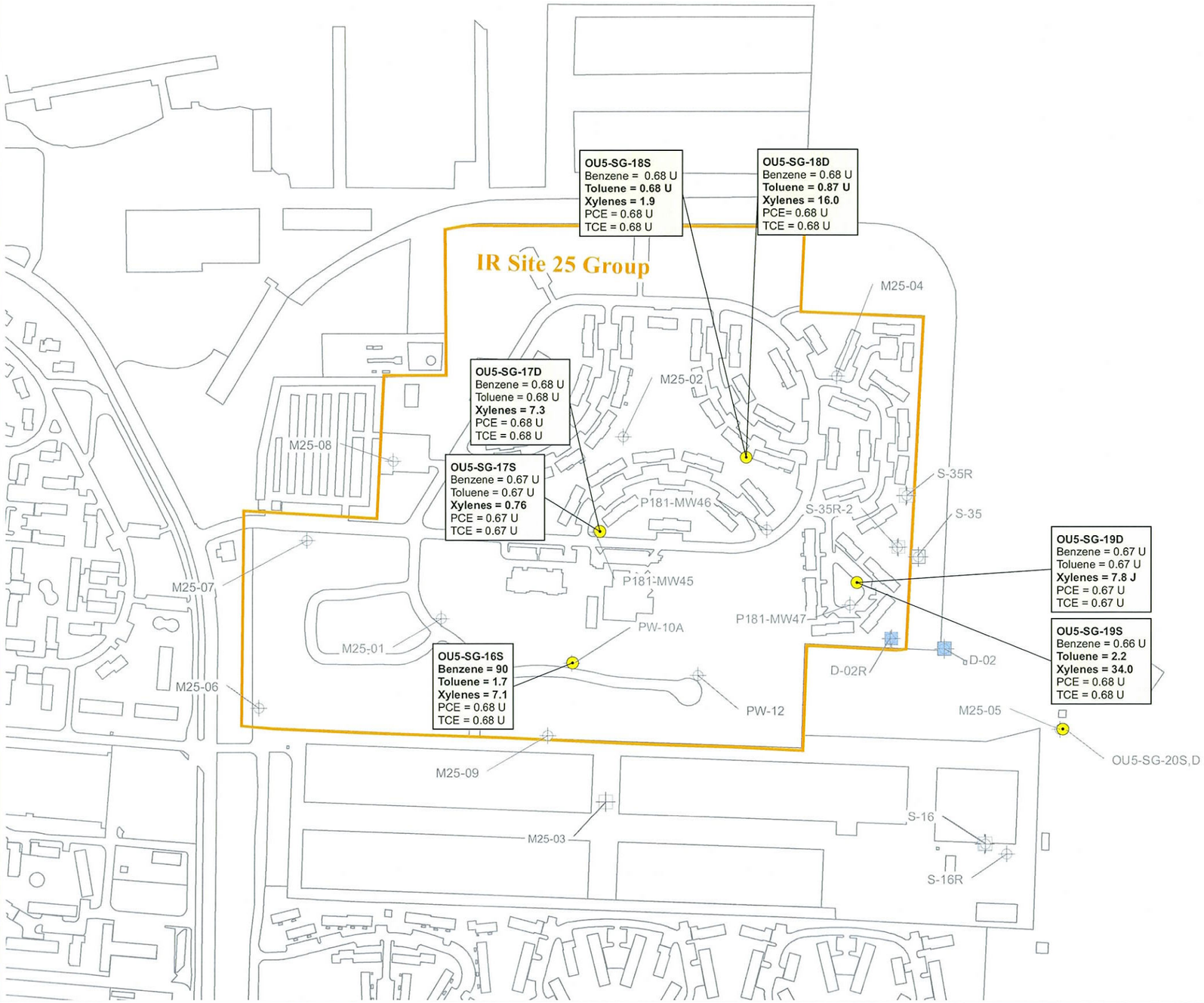
FIGURE 9.1-3
OPERABLE UNIT 5 - IR SITE 25 GROUP
GROUNDWATER CONCENTRATIONS OF
SELECTED AROMATIC HYDROCARBONS IN FWBZ WELLS
SPRING 2007



Legend

- Soil Gas Wells
- First Water Bearing Zone (FWBZ) Wells, Not Sampled
- Second Water Bearing Zone (SWBZ) Wells, Not Sampled
- Abandoned Well (FWBZ)
- Abandoned Well (SWBZ)
- IR Site Boundaries
- Facility Infrastructure

J	Estimated Value
MCL	Maximum Contaminant Level
U	Not Detected
ug/L	Micrograms per Liter

Results presented in ug/L

Bold text indicates detected analyte

N

400 0 400

Feet

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FIGURE 9.1-4
OPERABLE UNIT 5 - IR SITE 25 GROUP
SELECTED SOIL GAS ANALYTICAL DETECTIONS:
VOLATILE ORGANIC COMPOUNDS
SPRING 2007

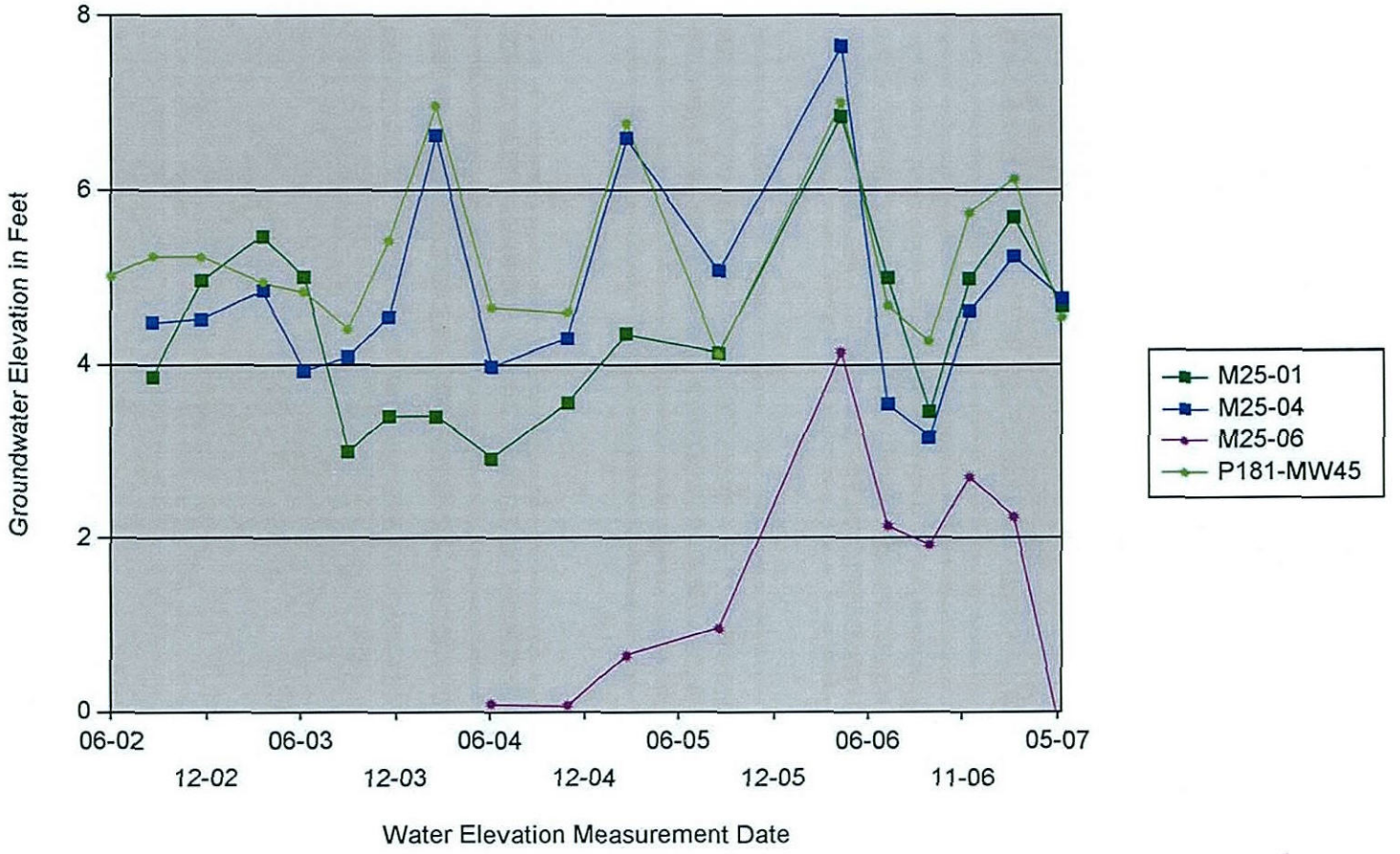

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FIGURE 9.1-5
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 5- IR SITE 25 GROUP:
SOUTHWEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

Analyte	MCL	Units
Benzene	1.0	UG/L
Naphthalene	--	UG/L

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FIGURE 9.1-6
OPERABLE UNIT 5 - IR SITE 25 GROUP
GROUNDWATER CONCENTRATIONS OF AROMATIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

10.0 OPERABLE UNIT 6

Operable Unit 6 is comprised of Installation Restoration Sites 26, 27, and 28.

10.1 INSTALLATION RESTORATION SITE 26

The basewide groundwater monitoring program does not include sampling monitoring wells at IR26. Groundwater elevations were measured at some monitoring wells to develop the Spring 2007 basewide groundwater elevation map. Installation Restoration Site 26 site features and monitoring wells are presented on Figure 10.2-1 while the groundwater elevations are presented in Table 10.2-1 and Figure 10.2-2.

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TABLES

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General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 10.1-1
Summary of Groundwater Level Measurements at Operable Unit 6-IR Site 26, Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	26SW01	NA	11.08	3/7/2007	3.51	7.57
		NA	11.08	12/14/2006	NM	NC
		NA	11.08	9/25/2006	4.4	6.68
		NA	11.08	7/10/2006	3.63	7.45
		NA	11.08	4/11/2006	2.4	8.68
First	26SW02	NA	10.52	3/7/2007	2.4	8.12
		NA	10.52	12/12/2006	2.89	7.63
		NA	10.52	9/26/2006	3.66	6.86
		NA	10.52	4/11/2006	0.87	9.65
First	26SW03	NA	10.5	3/7/2007	3.09	7.41
		NA	10.5	12/14/2006	3.54	6.96
		NA	10.5	9/25/2006	4.14	6.36
		NA	10.5	7/10/2006	3.47	7.03
		NA	10.5	4/11/2006	2.2	8.30
First	26SW04	NA	12.33	3/7/2007	5.78	6.55
		NA	12.33	12/14/2006	6.2	6.13
		NA	12.33	9/25/2006	6.51	5.82
		NA	12.33	7/10/2006	5.71	6.62
		NA	12.33	4/11/2006	4.9	7.43
First	26SW05	NA	10.66	3/7/2007	3.15	7.51
		NA	10.66	12/14/2006	3.64	7.02
		NA	10.66	9/25/2006	4.05	6.61
		NA	10.66	7/10/2006	3.28	7.38
		NA	10.66	4/11/2006	2.16	8.50

Notes:
BTOC = below top of casing
msl = mean sea level
NA = Not available

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FIGURES

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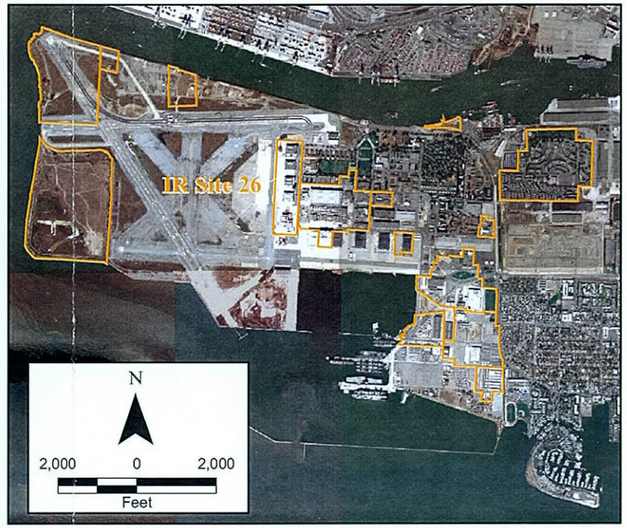

Legend

- First Water Bearing Zone (FWBZ) Well
- IR Site Boundary
- Facility

N

300 0 300

Feet

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FIGURE 10.1-1
OPERABLE UNIT 6 - IR SITE 26
SITE AND WELL LOCATION MAP

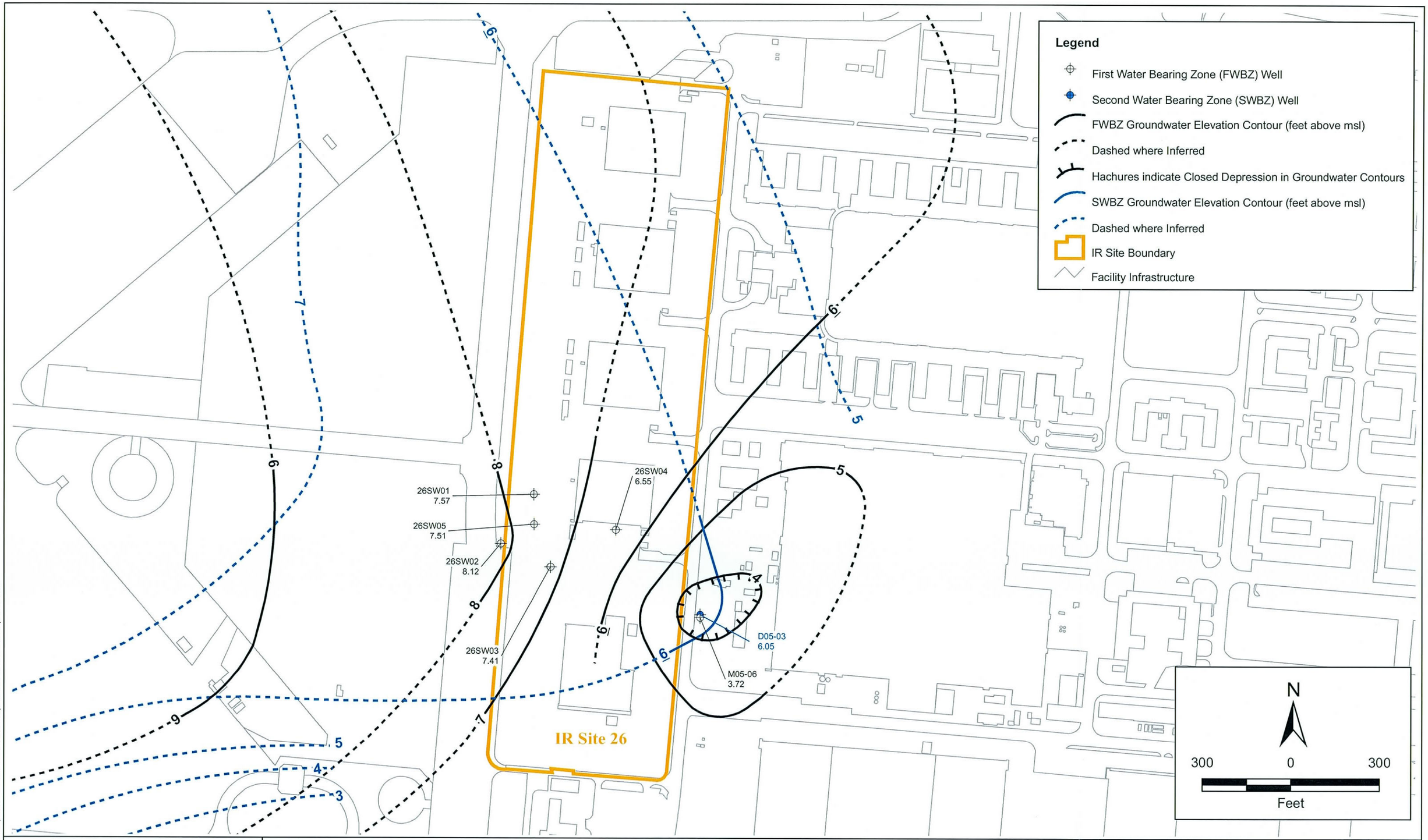

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FIGURE 10.1-2
OPERABLE UNIT 6 - IR SITE 26
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

10.2 INSTALLATION RESTORATION SITE 27

IR Site 27 is located in southern Alameda Point (Figure 1-2) in the Dock Zone at the southeastern corner of the Seaplane Lagoon. The site represents a small industrial area where maintenance and repair of small watercraft was conducted. The contamination may be associated with former ship repair and painting operations at the site. The area was designated an IR site due to the VOC contamination detected in groundwater in the area of former USTs 15-1, 15-2, and 15-3. Additional background data for this site may be found in the Alameda Point Environmental Baseline Survey (EBS) (IT, 2001).

The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 27 included sampling and analysis of four FWBZ groundwater monitoring wells. An additional seven FWBZ groundwater monitoring wells are used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2006 through Spring 2007 program are listed in Table 10.2-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone, and geologic formation for each well. Non-program wells (i.e., wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 10.1-1.

10.2.1 Groundwater Level Measurement Summary

Groundwater level measurements were taken from 11 groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling events at IR Site 27. The results are presented along with historical water-level measurement data in Table 10.2-2. Groundwater flow direction and gradient are discussed in Section 10.2.4.1. Trends in groundwater elevations are discussed in Section 10.2.4.4.

10.2.2 Analytical Parameters

Groundwater monitoring wells at IR Site 27 sampled during the Summer 2006 through Spring 2007 sampling events were analyzed for the following parameters:

- TPH as gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A

- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method).
- Field Parameters (measured using portable field instruments)

Table 10.2-1 lists all IR Site 27 groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

10.2.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following sections, and listed along with previously obtained analytical data in the following tables:

- Table 10.2-3, "Groundwater Sample Analytical Results: Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 6 - IR Site 27, Summer 2002 through Spring 2007"
- Table 10.2-4, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 6 - IR Site 27, Summer 2002 through Spring 2007"
- Table 10.2-5, "Groundwater Sampling Field Parameters at Operable Unit 6 - IR Site 27, Summer 2002 through Spring 2007".
- Table 10.2-6, "Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 6 - IR Site 27, Summer 2002 through Spring 2007".

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in **bold** text on the metals tables only.

10.2.4 Discussion of Results

Concentrations of one aromatic hydrocarbon and various chlorinated hydrocarbons have been consistently detected in groundwater samples collected from IR Site 27 groundwater monitoring wells screened in the FWBZ. The following VOC analytes were detected at concentrations exceeding MCLs in FWBZ wells during the current sampling year: **TCE, cis-1,2-DCE,** and **vinyl chloride** (Table 10.2-3).

TCE was detected above the MCL of 5.0 µg/L in one well, 15-MW2, at a maximum concentration of 6.8 µg/L during the Spring 2007 sampling event. Cis-1,2-DCE was detected above the MCL of 6 µg/L in two wells, at a maximum concentration of 31.0 µg/L at well 15-MW3 in Fall 2006. Vinyl chloride was detected above the MCL of 0.50 µg/L in three wells, at a maximum concentration of 5.0 µg/L at well 15-MW1 in Spring 2007 (Table 10.2-7).

Arsenic was detected above its MCL of 10 µg/L in one well, 15-MW1, at a maximum concentration of 13.0 µg/L during the Spring 2007 sampling event (Table 10.2-4). This concentration is below the background value for arsenic.

Field parameters measured during sampling are presented in Table 10.2-5. A summary of detected analytical results for natural attenuation parameters is presented in Table 10.2-6. Four wells at IR Site 27 are monitored for various natural attenuation parameters, such as alkalinity, dissolved gases, anions, nitrate and sulfate. Methane as dissolved gases was detected at a maximum concentration of 130 µg/L in well 15-MW3 in Spring 2007.

10.2.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 10.2-2. Groundwater flow direction in the FWBZ is generally towards the west-northwest at a gradient of approximately 0.0075 feet per foot. There are no SWBZ wells in Site 27.

10.2.4.2 Groundwater Contaminant Distribution

Groundwater contaminants above MCLs, consisting of cis-1,2-DCE, vinyl chloride, and TCE, have been detected at IR Site 27. These contaminants are posted on Figure 10.2-3.

Among IR Site 27 metals results for the current sampling year, only arsenic exceeded an MCL. Arsenic exceeded its MCL and has consistently exceeded its MCL in one well, 15-MW3. Most arsenic concentrations detected in this well to date have not exceeded the background value for arsenic of 20.7 µg/L. The three nearest downgradient wells (15MJ-MW1, 15-MW1, and 15-MW2, located about 100 feet downgradient from 15-MW3) have generally reported lower concentrations for arsenic since 2002.

10.2.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 10.2-7, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 10.2-7 also lists the historical maximum concentration (Summer 2002 through Spring 2006) for each analyte.

Current analytical results are consistent with the historical data. Three compounds with historical concentrations above MCLs - trans-1,2-dichloroethene, MTBE, and lead were not detected above their respective MCLs in the current sampling year and have remained below MCLs since Winter 2004.

10.2.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevations over time are represented on Figure 10.2-4 for selected wells. Small variations in groundwater elevation occur due to seasonal fluctuation in wells located further inland (15-MW3, 27MW01, 27MW06, and 27MW08), with elevations being high in the spring and low in the summer and fall. An exception to this pattern is at 15-MW1, where elevations do not show any apparent seasonal fluctuations; the proximity of this well to the shoreline may cause tidal effects to influence groundwater elevations.

10.2.4.5 Trends in Groundwater Contaminant Concentrations

Trends in groundwater contaminant concentrations in selected wells over time are displayed on Figures 10.2-5 and 10.2-6. Trend curves of chlorinated hydrocarbons generally show small variations between sampling events but an overall decline in concentrations over time.

10.2.5 Conclusions and Recommendations

Concentrations of TCE, cis-1,2-DCE and/or vinyl chloride above MCLs were detected in all four wells sampled during the current sampling year. The overall concentration trends of cis- and trans-1,2-DCE have been generally decreasing in all these wells over the monitoring period of approximately five years.

This site will no longer be monitored as part of Basewide Groundwater Monitoring Program, as it is in the Remedial Design phase.

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SSIC NO. 5090.3.A.

TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 10.2-1
Groundwater Monitoring Summary, Operable Unit 6-IR Site 27, Summer 2006 through Spring 2007

				Organic Compounds		Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Groundwater Monitoring Program Wells											
First	15-MW1	Fill-BSU	3.5 - 18.5	S	S	S[1]	A	A	A	A	A
	15-MW2	Fill-BSU	3.3 - 18.3	S	S	S[1]	A	A	A	A	A
	15-MW3	Fill-BSU	2.6 - 17.1	S	S	S[1]	A	A	A	A	A
	27MW06	Fill-BSU	6 - 16	S	S	S[1]	A	A	A	A	
Non-Program Wells, Water Level Only											
First	27MW01	Fill-BSU	6.7 - 16.7	-	-	-	-	-	-	-	-
	27MW02	Fill-BSU	6.6 - 16.6	-	-	-	-	-	-	-	-
	27MW03	Fill-BSU	6.6 - 16.6	-	-	-	-	-	-	-	-
	27MW04	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-
	27MW05	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-
	27MW07	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-
	27MW08	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-

Notes:

S Well sampled for this analyte group SEMIANNUALLY; Fall 2006 and Spring 2007

A Well sampled for this analyte group ANNUALLY; Spring 2007

\- Well not in analytical program.

[1] Priority Pollutant metals only

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 10.2-2
Summary of Groundwater Level Measurements at
Operable Unit 6 - IR Site 27,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	15-MW1	11.2	11.02 *	03/12/07	8.83	2.19
		11.2	11.02 *	12/13/06	8.21	2.81
		11.2	11.02 *	09/27/06	7.69	3.33
		11.2	11.02 *	07/10/06	6.44	4.58
		11.2	11.02 *	04/11/06	6.6	4.42
		11.2	11.02 *	08/24/05	8.14	2.88
		11.2	11.02 *	02/28/05	8.21	2.81
		11.2	11.02 *	11/08/04	6.72	4.30
		11.2	11.02 *	06/15/04	7.21	3.81
		11.2	11.02 *	03/01/04	7.47	3.55
		11.2	11.02 *	12/03/03	8.21	2.81
		11.2	11.02 *	09/15/03	6.60	4.42
		11.2	11.02 *	06/24/03	7.80	3.22
		11.2	11.02 *	04/09/03	8.46	2.56
		11.2	11.02 *	12/11/02	7.37	3.65
		11.2	11.02 *	09/03/02	6.75	4.27
		11.2	11.02 *	06/19/02	6.57	4.45
First	15-MW2	11.2	10.99 *	03/12/07	8.83	2.16
		11.2	10.99 *	12/13/06	NM	NC
		11.2	10.99 *	09/27/06	7.48	3.51
		11.2	10.99 *	07/10/06	6.15	4.84
		11.2	10.99 *	04/11/06	6.40	4.59
		11.2	10.99 *	08/24/05	7.94	3.05
		11.2	10.99 *	02/28/05	7.91	3.08
		11.2	10.99 *	11/08/04	6.74	4.25
		11.2	10.99 *	06/15/04	7.10	3.89
		11.2	10.99 *	03/01/04	7.22	3.77
		11.2	10.99 *	12/03/03	8.02	2.97
		11.2	10.99 *	09/15/03	5.52	5.47
		11.2	10.99 *	06/24/03	7.52	3.47
		11.2	10.99 *	04/09/03	8.15	2.84
		11.2	10.99 *	12/11/02	7.23	3.76
		11.2	10.99 *	09/03/02	6.58	4.41
		11.2	10.99 *	06/19/02	6.75	4.24
First	15-MW3	11.6	11.03 *	03/12/07	5.79	5.24
		11.6	11.03 *	12/13/06	NM	NC
		11.6	11.03 *	09/27/06	5.89	5.14
		11.6	11.03 *	07/10/06	5.71	5.32
		11.6	11.03 *	04/11/06	5.20	5.83
		11.6	11.03 *	08/24/05	5.83	5.20
		11.6	11.03 *	02/28/05	5.55	5.48
		11.6	11.03 *	11/08/04	5.97	5.06
		11.6	11.03 *	06/15/04	6.11	4.92
		11.6	11.03 *	03/01/04	5.55	5.48
		11.6	11.03 *	12/03/03	6.06	4.97
		11.6	11.03 *	09/15/03	6.09	4.94
		11.6	11.03 *	06/24/03	6.05	4.98

Table 10.2-2
Summary of Groundwater Level Measurements at
Operable Unit 6 - IR Site 27,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	15-MW3	11.6	11.03 *	04/09/03	5.98	5.05
		11.6	11.03 *	12/11/02	6.18	4.85
		11.6	11.03 *	09/03/02	6.16	4.87
		11.6	11.03 *	06/19/02	6.16	4.87
First	15MJ-MW1 ‡	11.1	10.74 *	09/15/03	Abandoned	NC
		11.1	10.74 *	06/24/03	7.65	3.09
		11.1	10.74 *	04/09/03	7.75	2.99
		11.1	10.74 *	12/11/02	7.13	3.61
		11.1	10.74 *	09/03/02	6.25	4.49
		11.1	10.74 *	06/19/02	6.57	4.17
First	27MW01 ‡	11.6	11.27 ***	03/07/07	5.26	6.01
		11.6	11.27 ***	12/13/06	5.20	6.07
		11.6	11.27 ***	09/26/06	5.31	5.96
		11.6	11.27 ***	07/10/06	5.81	5.46
		11.6	11.27 ***	04/11/06	5.25	6.02
		11.6	11.27 ***	08/24/05	5.75	5.52
		11.6	11.27 ***	02/28/05	5.45	5.82
		11.6	11.27 ***	11/08/04	5.89	5.38
		11.6	11.27 ***	06/15/04	6.04	5.23
		11.6	11.27 ***	03/02/04	5.86	5.41
First	27MW02 ‡	12.1	11.78 ***	03/07/07	5.11	6.67
		12.1	11.78 ***	12/12/06	5.44	6.34
		12.1	11.78 ***	09/26/06	5.71	6.07
		12.1	11.78 ***	07/12/06	5.87	5.91
		12.1	11.78 ***	04/11/06	4.65	7.13
		12.1	11.78 ***	08/24/05	NM	NC
		12.1	11.78 ***	02/28/05	NM	NC
		12.1	11.78 ***	11/08/04	5.97	5.81
		12.1	11.78 ***	06/15/04	NM	NC
		12.1	11.78 ***	03/02/04	5.60	6.18
First	27MW03 ‡	12.2	11.50 ***	03/07/07	7.68	3.82
		12.2	11.50 ***	12/12/06	7.40	4.10
		12.2	11.50 ***	09/26/06	7.41	4.09
		12.2	11.50 ***	07/10/06	6.61	4.89
		12.2	11.50 ***	04/11/06	6.25	5.25
		12.2	11.50 ***	08/24/05	7.41	4.09
		12.2	11.50 ***	02/28/05	7.32	4.18
		12.2	11.50 ***	11/08/04	6.84	4.66
		12.2	11.50 ***	06/15/04	7.21	4.29
		12.2	11.50 ***	03/02/04	6.35	5.15
First	27MW04 ‡	10.8	10.29 ***	03/12/07	7.48	2.81
		10.8	10.29 ***	12/13/06	6.84	3.45
		10.8	10.29 ***	09/27/06	6.74	3.55
		10.8	10.29 ***	07/10/06	5.83	4.46
		10.8	10.29 ***	04/11/06	5.25	5.04
		10.8	10.29 ***	08/24/05	7.06	3.23
		10.8	10.29 ***	02/28/05	6.50	3.79

Table 10.2-2
Summary of Groundwater Level Measurements at
Operable Unit 6 - IR Site 27,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	27MW04 ‡	10.8	10.29 ***	11/08/04	7.05	3.24
		10.8	10.29 ***	06/15/04	6.38	3.91
		10.8	10.29 ***	03/02/04	5.17	5.12
First	27MW05 ‡	12.8	12.34 ***	03/07/07	4.55	7.79
		12.8	12.34 ***	12/12/06	5.02	7.32
		12.8	12.34 ***	09/26/06	5.22	7.12
		12.8	12.34 ***	07/10/06	4.78	7.56
		12.8	12.34 ***	04/11/06	4.10	8.24
		12.8	12.34 ***	08/24/05	5.25	7.09
		12.8	12.34 ***	02/28/05	4.70	7.64
		12.8	12.34 ***	11/08/04	5.89	6.45
		12.8	12.34 ***	06/15/04	5.70	6.64
		12.8	12.34 ***	03/02/04	4.97	7.37
First	27MW06	12.5	11.99 ***	03/07/07	4.25	7.74
		12.5	11.99 ***	12/12/06	4.91	7.08
		12.5	11.99 ***	09/26/06	4.89	7.10
		12.5	11.99 ***	07/10/06	4.22	7.77
		12.5	11.99 ***	04/11/06	4.40	7.59
		12.5	11.99 ***	08/24/05	4.76	7.23
		12.5	11.99 ***	02/28/05	4.65	7.34
		12.5	11.99 ***	11/08/04	5.62	6.37
		12.5	11.99 ***	06/15/04	5.54	6.45
		12.5	11.99 ***	03/02/04	5.21	6.78
First	27MW07 ‡	12.4	11.82 ***	03/07/07	3.91	7.91
		12.4	11.82 ***	12/12/06	4.40	7.42
		12.4	11.82 ***	09/26/06	4.81	7.01
		12.4	11.82 ***	07/10/06	4.15	7.67
		12.4	11.82 ***	04/11/06	3.60	8.22
		12.4	11.82 ***	08/24/05	4.66	7.16
		12.4	11.82 ***	02/28/05	3.59	8.23
		12.4	11.82 ***	11/08/04	5.19	6.63
		12.4	11.82 ***	06/15/04	5.02	6.80
		12.4	11.82 ***	03/02/04	4.25	7.57

Table 10.2-2
Summary of Groundwater Level Measurements at
Operable Unit 6 - IR Site 27,
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	27MW08 ‡	12.9	12.58 ***	03/07/07	4.71	7.87
		12.9	12.58 ***	12/12/06	5.17	7.41
		12.9	12.58 ***	09/26/06	5.16	7.42
		12.9	12.58 ***	07/10/06	4.68	7.90
		12.9	12.58 ***	04/11/06	3.95	8.63
		12.9	12.58 ***	08/24/05	5.04	7.54
		12.9	12.58 ***	02/28/05	4.73	7.85
		12.9	12.58 ***	11/08/04	5.78	6.80
		12.9	12.58 ***	06/15/04	5.47	7.11
		12.9	12.58 ***	03/02/04	5.00	7.58

Notes:
BTOC = below top of casing
msl = mean sea level
NF = Monitoring well not found
NM = Water level not measured
NC = Water elevation not calculated.

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.
*** = Surveyed with GPS
‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 10.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH		Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15MJ-MW1	2003 02 (Summer)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	15-MW1	2007 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	1.8	0.50	2.4	< 0.50	< 0.50	5.0
		2006 03 (Fall)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	0.80	0.20 J	1.4	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.20 J	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	3.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	1.9	0.40 J	1.9	< 0.50	< 0.50	2.0
		2005 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.4 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	0.40 J	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	4.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	1.3	0.30 J	1.1	< 0.50	< 0.50	1.1
		2004 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	0.40 J	1.4	< 0.50	< 0.50	3.4
		2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.71 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	0.32 J	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	4.9 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	0.65 J	1.3	< 0.50	< 1.0	4.3
		2003 03 (Fall)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	4.9 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	0.74 J	1.4	< 0.50	< 1.0	8.5
		2003 02 (Summer)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	2.5 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	0.67 J	1.9	< 0.50	< 1.0	7.8
		2003 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	2.7	0.70	2.6	< 0.50	< 0.50	5.0
		2002 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	2.1	0.60	1.4	< 0.50	< 0.50	11.0
		2002 03 (Fall)	< 50.0	< 50.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.6	1.0	2.5	< 0.50	< 0.50	11.0
		2002 02 (Summer)	< 50.0	< 50.0	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	7.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	3.4	3.3	3.3	< 0.50	< 0.50	16.0
	15-MW2	2007 01 (Spring)	< 22.0	< 22.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	1.8	6.8	< 0.50	3.8	< 0.50	0.50	< 0.50	< 0.50	< 0.50
		2006 03 (Fall)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60 J	0.090 J	< 0.50	< 0.50	< 0.50	< 0.50	1.5	5.2	< 0.50	3.0	< 0.50	0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	1.8	6.4	< 0.50	3.5	0.10 J	0.70	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5	6.7	< 0.50	3.8	< 0.50	0.70	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1 J	7.3 J	< 0.50	5.0 J	< 0.50	0.90 J	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	3.2	< 0.50	2.4	< 0.50	0.60	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	3.0	< 0.50	3.3	< 0.50	0.70	< 0.50	< 0.50	0.10 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 10.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH		Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15-MW2	2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	4.2	< 1.0	3.1	< 1.0	0.81 J	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.90 J	2.7	< 1.0	4.0	< 1.0	0.65 J	< 0.50	< 1.0	0.32 J
		2003 03 (Fall)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	4.8	< 1.0	5.8	0.27 J	0.98 J	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.99 J	3.0	< 1.0	4.4	< 1.0	0.70 J	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.1	10.0	0.20 J	12.0	< 0.50	1.4	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.5	11.0	< 0.50	16.0	0.80	1.3	< 0.50	< 0.50	6.9
		2002 03 (Fall)	40.0 J	40.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.3	7.1	0.20 J	16.0	0.20 J	1.3	< 0.50	< 0.50	0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.0	5.6	< 0.50	15.0	< 0.50	1.1	< 0.50	< 0.50	0.50 J
	15-MW3	2007 01 (Spring)	< 20.0	< 20.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.50	0.20 J	0.20 J	< 0.50	< 0.50	0.10 J	3.4	0.10 J	25.0	4.2	0.50	< 0.50	< 0.50	2.1
		2006 03 (Fall)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.4	0.50	0.50	< 0.50	< 0.50	< 0.50	3.4	< 0.50	31.0	4.8	1.1	< 0.50	< 0.50	2.1
		2006 01 (Spring)	< 50.0	< 50.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	1.4	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	7.2	0.40 J	17.0	3.1	2.0	< 0.50	< 0.50	49.0
		2005 02 (Summer)	< 50.0	< 50.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	3.2	0.90	0.70	< 0.50	< 0.50	0.20 J	3.4	< 0.50	25.0	3.5	0.90	< 0.50	< 0.50	1.7
		2005 01 (Spring)	< 50.0	< 50.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	7.4 J	0.10 J	< 0.50	< 0.50	< 0.50	0.20 J	7.7 J	0.20 J	21.0 J	4.1 J	1.5 J	< 0.50	< 0.50	19.0 J
		2004 04 (Winter)	37.0 J	37.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	38.0	0.20 J	0.10 J	< 0.50	< 0.50	< 0.50	3.5	0.20 J	75.0	13.0	1.9	< 0.50	< 0.50	1.2
		2004 02 (Summer)	< 50.0	< 50.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	23.0	1.0	0.90	< 0.50	< 0.50	0.20 J	3.8	0.20 J	47.0	8.6	1.3	< 0.50	< 0.50	1.9
		2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	2.1 J	0.69 J	0.82 J	< 1.0	< 1.0	< 1.0	5.8	< 1.0	21.0	3.0	0.73 J	< 0.50	< 1.0	2.4
		2003 04 (Winter)	< 50.0	< 50.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.71 J	1.0	0.83 J	< 1.0	< 1.0	< 1.0	5.1	0.29 J	98.0	17.0	1.9	< 0.50	< 1.0	1.5
		2003 03 (Fall)	< 50.0	< 50.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.85 J	1.6	1.5	< 1.0	< 1.0	< 1.0	4.7	0.30 J	78.0	18.0	2.1	< 0.50	< 1.0	3.1
		2003 02 (Summer)	< 50.0	< 50.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	0.47 J	2.2	1.9	< 1.0	< 1.0	< 1.0	3.8	< 1.0	56.0	9.9	1.7	< 0.50	< 1.0	2.6
		2003 01 (Spring)	< 54.0	< 54.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.40 J	1.5	1.4	< 0.50	< 0.50	0.20 J	5.7	0.20 J	36.0	5.1	1.5	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.50 J	1.1	0.80	< 0.50	< 0.50	< 0.20 J	8.3	0.30 J	54.0	11.0	1.7	< 0.50	< 0.50	3.6
		2002 03 (Fall)	46.0 J	46.0	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.70	1.4	0.80	< 0.50	< 0.50	< 0.50	6.0	0.30 J	85.0	17.0	2.2	< 0.50	< 0.50	3.2
		2002 02 (Summer)	< 54.0	< 54.0	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	1.4	1.0	< 0.50	< 0.50	< 0.50	6.0	0.40 J	73.0	15.0	2.1	< 0.50	< 0.50	1.7
	27MW06	2007 01 (Spring)	< 18.0	< 18.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.20 J	1.0	< 0.50	0.10 J	< 0.50	3.0	< 0.50	9.0	0.60	0.20 J	< 0.50	< 0.50	3.3
		2006 03 (Fall)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	1.0	< 0.50	< 0.50	< 0.50	2.8	< 0.50	12.0	0.90	0.20 J	< 0.50	< 0.50	4.8
		2006 01 (Spring)	< 50.0	< 50.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	0.30 J	1.2	< 0.50	0.20 J	< 0.50	4.1	< 0.50	5.7	0.80	0.20 J	< 0.50	< 0.50	4.7
		2005 02 (Summer)	< 50.0	< 50.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	1.0	1.4	3.7	< 0.50	0.40 J	0.60	0.80	< 0.50	7.8	1.8	0.60	< 0.50	< 0.50	9.9

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 10.2-3

Groundwater Sample Analytical Results Total Petroleum Hydrocarbons and Volatile Organic Compounds at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH		Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	1.0	150	300	1750	1750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	27MW06	2005 01 (Spring)	< 50.0	< 50.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	1.3	< 0.50	0.20 J	< 0.50	3.0	< 0.50	6.6	0.60	0.30 J	< 0.50	< 0.50	8.4
		2004 04 (Winter)	< 50.0	< 50.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.40 J	1.6	< 0.50	0.20 J	< 0.50	2.9	< 0.50	12.0	0.80	0.30 J	< 0.50	< 0.50	7.0
		2004 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30 J	1.0	< 0.50	< 0.50	< 0.50	2.4	< 0.50	9.2 J	0.70	< 0.50	< 0.50	< 0.50	8.7
		2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	0.33 J	1.3	< 1.0	< 1.0	< 1.0	2.7	< 1.0	8.3	0.74 J	0.26 J	< 0.50	< 1.0	14.0

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 10.2-4

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
	Well No.	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	15MJ-MW1	2003 02 (Summer)	< 50.0	9.1 J	29.4 J	< 4.0	0.86 J	< 10.0	1.6 J	2.7 J	< 10.0	< 10.0	-	12.3 J	2.3 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	341	1060	371 J	7290 J
		2002 04 (Winter)	0.33 J	< 5.0	26.0	< 2.0	< 5.0	1.1 J	1.1 J	5.9 J	< 3.0	0.099 J	< 0.20	8.0 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	1.9 J	< 20.0	66.0 J	1100	320	1000	320	8300
		2002 02 (Summer)	< 50.0	< 5.0	31.0	< 2.0	0.16 J	2.0 J	< 10.0	7.1 J	< 3.0	4.5 J	< 0.20	< 20.0	5.1 J	< 5.0	< 5.0	< 2.0	3.4 J	< 20.0	< 100	770	360	1100	310	9100
	15-MW1	2007 01 (Spring)	< 1.0	5.1	-	< 2.0	0.091 J	0.97 J	-	1.6 J	< 3.0 UJ	-	< 0.20	-	2.7 J	< 5.0	< 5.0	< 5.0	-	< 6.9	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	3.5 J	-	< 2.0	0.26 J	< 10.0	-	3.2 J	< 3.0	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	9.6 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.6 J	-	0.43 J	1.8 J	< 10.0	-	1.5 J	0.14 J	-	< 0.20	-	0.91 J	< 5.0	0.17 J	< 5.0	-	0.91 J	-	-	-	-	-	-
		2005 02 (Summer)	0.90 J	16.0 J	77.0	< 2.0	< 5.0	< 10.0	0.37 J	4.8 J	< 3.0	39.0	< 0.20	1.6 J	3.2 J	< 5.0	< 5.0	< 5.0	6.8 J	11.0 J	79.0 J	< 100	75.0	200	59.0	1700
		2004 04 (Winter)	0.11 J	< 5.0	180	< 2.0	< 5.0	4.7 J	0.41 J	< 10.0	80.0 J	24.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	4.2 J	< 20.0	< 100	< 100	110	330	92.0	2600
		2004 02 (Summer)	0.16 J	4.7 J	160	< 1.0	< 5.0	1.4 J	0.39 J	2.0	0.095 J	190	0.11 J	3.4 J	3.5	< 5.0	< 1.0	< 5.0	4.8 J	< 1.0	< 50.0	250	80.0	220	60.0	2200
		2003 04 (Winter)	< 5.0	< 50.0	226	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	239	< 0.40	11.3 J	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	89.1 J	185	45.9	1840
		2003 02 (Summer)	< 50.0	< 50.0	113 J	< 4.0	< 5.0	1.2 J	< 10.0	3.1 J	< 10.0	60.0 J	-	7.8 J	5.4 J	< 20.0	< 10.0	< 50.0	6.3 J	2.3 J	< 200	< 100	59.8	133	78.0 J	1000 J
		2002 04 (Winter)	0.13 J	7.1	320	< 2.0	< 5.0	1.2 J	0.51 J	1.5 J	< 3.0	200	< 0.20	3.5 J	< 20.0 UJ	**8.8 J**	< 5.0	< 2.0	2.5 J	< 20.0	4.7 J	400	95.0	200	44.0	1700
		2002 02 (Summer)	< 50.0	5.3	82.0	< 2.0	< 5.0	3.7 J	< 10.0	0.92 J	< 3.0	120	0.080 J	< 20.0	3.8 J	3.6 J	< 5.0	< 2.0	4.2 J	0.54 J	< 100	75.0 J	31.0	49.0	15.0	740
	15-MW2	2007 01 (Spring)	< 1.0	2.1 J	-	< 2.0	0.11 J	1.3 J	-	0.67 J	< 3.0 UJ	-	< 0.20	-	5.8 J	< 5.0	< 5.0	< 5.0	-	< 9.6	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	2.0 J	-	< 2.0	0.089 J	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	4.0 J	< 5.0	< 5.0	< 5.0	-	22.0	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	1.7 J	-	0.34 J	0.95 J	< 10.0	-	1.2 J	< 3.0	-	< 0.20	-	4.5 J	< 5.0	< 5.0	< 5.0	-	1.5 J	-	-	-	-	-	-
		2005 02 (Summer)	0.63 J	6.8	72.0	< 2.0	< 5.0	< 10.0	0.19 J	3.2 J	< 3.0	< 10.0	< 0.20	< 20.0	7.0 J	< 5.0	< 5.0	< 5.0	4.0 J	7.4 J	100 J	< 100	75.0	200	71.0	2200
		2004 04 (Winter)	0.17 J	< 5.0	140	< 2.0	< 5.0	< 10.0	0.52 J	< 10.0	**81.0 J**	< 10.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	< 100	**170**	**450**	130	3300
		2004 02 (Summer)	0.15 J	< 5.0	73.0	< 1.0	< 5.0	0.62 J	0.20 J	1.2	0.072 J	< 10.0	< 0.20	0.57 J	8.7	< 5.0	< 1.0	< 5.0	3.3 J	< 1.0	< 50.0	290	97.0	310	93.0	2800
		2003 04 (Winter)	< 5.0	< 50.0	153	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5.4 J	< 0.40	11.3 J	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	125 J	342	119	3070
		2003 02 (Summer)	< 50.0	< 50.0	92.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	-	< 50.0	11.1 J	< 20.0	< 10.0	< 50.0	1.7 J	< 20.0	< 200	< 100	119	326	91.0 J	1670 J
		2002 04 (Winter)	0.097 J	5.3	180	< 2.0	< 5.0	0.51 J	0.33 J	2.3 J	< 3.0	2.0 J	0.11 J	< 20.0	< 20.0 UJ	**11.0 J**	< 5.0	< 2.0	5.1 J	< 20.0	4.8 J	410	120	310	95.0	2300
		2002 02 (Summer)	< 50.0	5.7	370	< 2.0	< 5.0	2.0 J	< 10.0	1.7 J	< 3.0	5.8 J	< 0.20	< 20.0	7.2 J	**11.0**	< 5.0	< 2.0	4.6 J	< 20.0	< 100	280	120	280	76.0	1800
	15-MW3	2007 01 (Spring)	< 1.0	9.4	-	< 2.0	< 5.0	< 1.1	-	< 10.0	< 3.0	-	< 0.20	-	1.5 J	< 5.0	< 5.0	< 5.0	-	7.4 J	-	-	-	-	-	-
		2006 03 (Fall)	< 1.0	13.0	-	< 2.0	< 5.0	< 10.0	-	1.3 J	< 3.0	-	< 0.20	-	2.3 J	< 5.0	< 5.0	< 5.0	-	4.9 J	-	-	-	-	-	-
		2006 01 (Spring)	< 1.0	6.8	-	< 2.0	0.27 J	< 10.0	-	1.1 J	0.15 J	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	6.2 J	-	-	-	-	-	-
		2005 02 (Summer)	0.33 J	20.0	64.0	< 2.0	< 5.0	1.3 J	0.38 J	< 10.0	< 3.0	260	< 0.20	< 20.0	3.0 J	< 5.0	< 5.0	< 5.0	4.0 J	5.4 J	< 100	390	57.0	14.0	11.0	180
		2004 04 (Winter)	0.096 J	16.0	75.0	< 2.0	< 5.0	5.8 J	0.42 J	2.7 J	< 3.0	460	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.8 J	12.0 J	< 100	230	89.0	23.0	15.0	210
		2004 02 (Summer)	0.20 J	19.0	49.0	< 1.0	< 5.0	1.5 J	0.34 J	2.8	0.19 J	260	< 0.20	2.7 J	3.7	< 5.0	< 1.0	< 5.0	2.0 J	25.0	< 50.0	370	49.0	15.0	13.0	250
		2003 04 (Winter)	< 5.0	**23.9 J**	70.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	368	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	142	52.4 J	18.9	16.7	297
		2003 02 (Summer)	< 50.0	**22.6 J**	71.5 J	< 4.0	< 5.0	3.3 J	< 10.0	1.4 J	< 10.0	329 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.9 J	12.0 J	< 200	233 J	45.2	17.0	21.4 J	290 J

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10.2-5
Groundwater Sampling Field Parameters at Operable Unit 6 - IR Site 27
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	15-MW1	04/04/07	7.61	0.42	-8.5
		10/16/06	7.03	1.42	-147.7
		05/03/06	7.10	4.39	72.0
		09/14/05	7.29	4.24	91.0
		03/21/05	7.44	3.91	90.0
		12/03/04	7.07	0.24	244.0
		07/01/04	7.19	0.54	-94.0
		03/03/04	7.03	4.35	187.0
		12/05/03	7.38	0.18	3.0
		09/23/03	7.46	0.15	-162.0
		07/03/03	7.55	0.46	212.0
		04/17/03	7.75	1.20	248.0
		12/17/02	8.05	0.00	42.0
		09/06/02	7.44	3.90	216.0
		06/19/02	7.84	1.83	253.7
First	15-MW2	04/04/07	7.06	3.81	37.1
		10/16/06	6.58	2.91	-115.7
		05/03/06	6.77	3.45	68.0
		09/13/05	6.26	3.60	34.0
		03/21/05	6.96	4.81	135.0
		12/03/04	6.47	3.99	217.0
		07/01/04	6.63	3.66	0.0
		03/04/04	6.69	4.20	200.0
		12/05/03	6.89	0.47	79.0
		09/23/03	6.78	2.61	-131.0
		07/03/03	6.83	3.43	285.0
		04/16/03	6.92	1.91	229.0
		12/17/02	7.73	0.11	44.0
		09/05/02	6.75	***22.90***	***985.0***
		06/19/02	6.82	2.30	230.0
First	15-MW3	04/03/07	7.54	0.51	-99.7
		10/16/06	6.63	0.36	-226.6
		05/03/06	6.69	0.45	-81.0
		09/14/05	6.84	0.56	-153.0
		03/21/05	7.38	0.00	-109.0
		12/03/04	6.67	0.15	134.0
		07/01/04	7.03	0.30	-131.0
		03/03/04	7.02	0.59	176.0
		12/05/03	7.22	0.19	-23.0
		09/29/03	7.25	0.16	-21.0
		07/03/03	7.57	0.17	111.0
		04/16/03	7.66	0.21	209.0
		12/17/02	6.91	2.10	1.5
		09/05/02	7.39	1.50	-325.0
		06/19/02	7.54	0.85	59.1

Table 10.2-5
Groundwater Sampling Field Parameters at Operable Unit 6 - IR Site 27
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	27MW06	04/04/07	7.54	3.64	15.8
		10/16/06	7.23	1.99	-173.5
		05/03/06	7.49	3.28	66.0
		09/14/05	7.81	3.91	-54.0
		03/21/05	7.90	3.09	25.0
		12/03/04	7.32	2.74	198.0
		07/06/04	7.15	3.15	19.0
		03/03/04	7.46	2.56	207.0

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 10.2-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15MJ-MW1	2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	-	-	15400	1950	104	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	16000	2000	140	140	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.38 J	< 0.50	16000	2300	99.0	99.0	< 1.0	< 1.0	< 0.040
	15-MW1	2007 01 (Spring)	< 0.0050	< 0.0050	0.048	0.14 J	< 0.25	2200	330	490	490	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	0.46 J	< 1.0	8400	1100	200	200	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.11	0.15 J	< 0.50	3100	430	470	470	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.020	< 0.50	< 0.50	4700	630	400	400	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.14	0.31	< 0.50	3300	420	440	440	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.065	0.27	< 1.0	2220	315	478	478	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.090	0.86 J	-	1730	193	509	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.064	< 0.25	< 0.25	2800	350	460	460	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	0.050 J	< 0.050	910	110	610	610	< 1.0	< 1.0	< 0.040
	15-MW2	2007 01 (Spring)	< 0.0050	< 0.0050	0.0060	< 0.15	< 0.50	3000	440	220	220	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.0050	0.13 J	< 0.50	2800	460	190	190	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	0.12 J	< 0.50	3700	510	200	200	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 1.0	5700	860	160	160	< 1.0	< 1.0	< 0.040

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Table 10.2-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15-MW2	2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.50	4300	600	250	250	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.018	3.6	< 1.0	4530	628	197	197	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	0.0038	< 0.20 UJ	-	4830	588	199	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.11	< 0.25	< 0.25	3900	540	210	210	< 1.0	< 1.0	0.23
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	3800	570	200	200	< 1.0	< 1.0	< 0.040
	15-MW3	2007 01 (Spring)	< 0.0050	< 0.0050	0.13	< 0.050	< 0.050	38.0	130	440	440	< 10.0	< 10.0	< 0.040
		2006 01 (Spring)	< 0.0050	0.0030 J	0.46	< 0.050	< 0.050	64.0	130	440	440	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	0.23	< 0.050	< 0.050	56.0	77.0	500	500	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	0.19	< 0.050	< 0.050	70.0	110	530	530	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.17	0.37	< 0.050	57.0	87.0	530	530	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	0.16	< 0.20	< 0.20	79.6 J	81.8	551	551	< 5.0	-	< 1.0
		2003 02 (Summer)	0.0011 J	< 0.0030	0.18	0.13 J	< 0.20	83.4	72.9	511	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	0.11	< 0.050	< 0.050	70.0	91.0	490	490	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	0.21	< 0.050	< 0.050	68.0	95.0	530	530	< 1.0	< 1.0	< 0.040
	27MW06	2007 01 (Spring)	< 0.0050	< 0.0050	0.098	1.2	< 0.050	88.0	38.0	300	300	< 6.7	< 6.7	< 0.040
		2006 01 (Spring)	< 0.0050	< 0.0050	0.093	0.99	< 0.050	56.0	35.0	150	150	< 1.0	< 1.0	< 0.040

Table 10.2-6

Groundwater Sample Analytical Results: Natural Attenuation Parameters at Operable Unit 6 - IR Site 27

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well No.	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	27MW06	2005 02 (Summer)	< 0.0050	< 0.0050	0.32	0.42	< 0.050	52.0	45.0	800	800	< 1.0	< 1.0	0.050
		2004 04 (Winter)	< 0.0050	< 0.0050	0.15	0.52	< 0.050	130	39.0	210	210	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	0.15	0.45	< 0.050	110	33.0	230	230	< 1.0	< 1.0	< 0.040

Table 10.2-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 6 - IR Site 27

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 6 - IR Site 27 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	2	4	2.9 J	15-MW2	04 Apr 2007	3.4 J	15-MW2	2004 02 (Summer)
Tetrachloroethene (PCE) (UG/L)	2	4	1.8	15-MW2	04 Apr 2007	3.5	15-MW2	2002 04 (Winter)
Trichloroethene (UG/L)	4	4	6.8	15-MW2	04 Apr 2007	11.0	15-MW2	2002 04 (Winter)
1,1-Dichloroethene (UG/L)	1	4	0.10 J	15-MW3	03 Apr 2007	0.40 J	15-MW3	2006 01 (Spring)
cis-1,2-Dichloroethene (UG/L)	4	4	31.0	15-MW3	16 Oct 2006	98.0	15-MW3	2003 04 (Winter)
trans-1,2-Dichloroethene (UG/L)	3	4	4.8	15-MW3	16 Oct 2006	18.0	15-MW3	2003 03 (Fall)
1,1-Dichloroethane (UG/L)	4	4	2.4	15-MW1	04 Apr 2007	3.3	15-MW1	2002 02 (Summer)
Naphthalene (UG/L)	1	4	0.60 J	15-MW2	16 Oct 2006	--	NA	NA
Methyl tert-butyl ether (MTBE) (UG/L)	3	4	2.8	15-MW1	04 Apr 2007	38.0	15-MW3	2004 04 (Winter)
Chlorobenzene (UG/L)	2	4	0.50	15-MW3	16 Oct 2006	2.2	15-MW3	2003 02 (Summer)
1,2-Dichlorobenzene (UG/L)	2	4	1.0	27MW06	16 Oct 2006	3.7	27MW06	2005 02 (Summer)
Vinyl Chloride (UG/L)	3	4	5.0	15-MW1	04 Apr 2007	49.0	15-MW3	2006 01 (Spring)
1,4-Dichlorobenzene (UG/L)	1	4	0.10 J	27MW06	04 Apr 2007	0.40 J	27MW06	2005 02 (Summer)
Methyl ethyl ketone (MEK) (UG/L)	1	4	0.30 J	27MW06	16 Oct 2006	1.5 J	15-MW3	2005 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 10.2-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 6 - IR Site 27

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 6 - IR Site 27 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Methane (MG/L)	4	4	0.13	15-MW3	03 Apr 2007	0.46	15-MW3	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 10.2-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 6 - IR Site 27

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 6 - IR Site 27 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	4	0.16 J	27MW06	04 Apr 2007	0.90 J	15-MW1	2005 02 (Summer)
Arsenic (UG/L)	4	4	13.0	15-MW3	16 Oct 2006	23.9 J	15-MW3	2003 04 (Winter)
Cadmium (UG/L)	3	4	0.26 J	15-MW1	16 Oct 2006	1.8 J	15-MW1	2006 01 (Spring)
Chromium (UG/L)	3	4	4.4 J	27MW06	04 Apr 2007	11.0	27MW06	2006 01 (Spring)
Copper (UG/L)	3	4	3.2 J	15-MW1	16 Oct 2006	7.1 J	15MJ-MW1	2002 02 (Summer)
Lead (UG/L)	1	4	0.17 J	27MW06	04 Apr 2007	81.0 J	15-MW2	2004 04 (Winter)
Nickel (UG/L)	4	4	5.8 J	15-MW2	04 Apr 2007	11.1 J	15-MW2	2003 02 (Summer)
Silver (UG/L)	1	4	0.10 J	27MW06	04 Apr 2007	0.23 J	27MW06	2006 01 (Spring)
Zinc (UG/L)	3	4	22.0	15-MW2	16 Oct 2006	200	27MW06	2006 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 10.2-7

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 6 - IR Site 27

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 6 - IR Site 27 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	4	4	490	15-MW1	04 Apr 2007	800	27MW06	2005 02 (Summer)
Alkalinity, bicarbonate (MG/L)	4	4	490	15-MW1	04 Apr 2007	800	27MW06	2005 02 (Summer)
Nitrate (MG/L)	2	4	1.2	27MW06	04 Apr 2007	3.6	15-MW2	2003 04 (Winter)
Chloride (MG/L)	4	4	3000	15-MW2	04 Apr 2007	16000	15MJ-MW1	2002 04 (Winter)
Sulfate (as SO4) (MG/L)	4	4	440	15-MW2	04 Apr 2007	2300	15MJ-MW1	2002 02 (Summer)

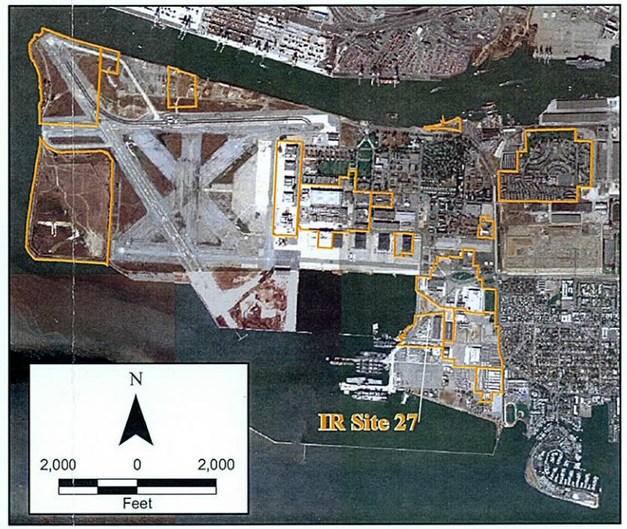
Result exceeds Maximum Contaminant Level (MCL)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Wells
- Abandoned Well (FWBZ)
- IR Site Boundary
- Facility

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Feet

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FIGURE 10.2-1
OPERABLE UNIT 6 - IR SITE 27
SITE AND WELL LOCATION MAP

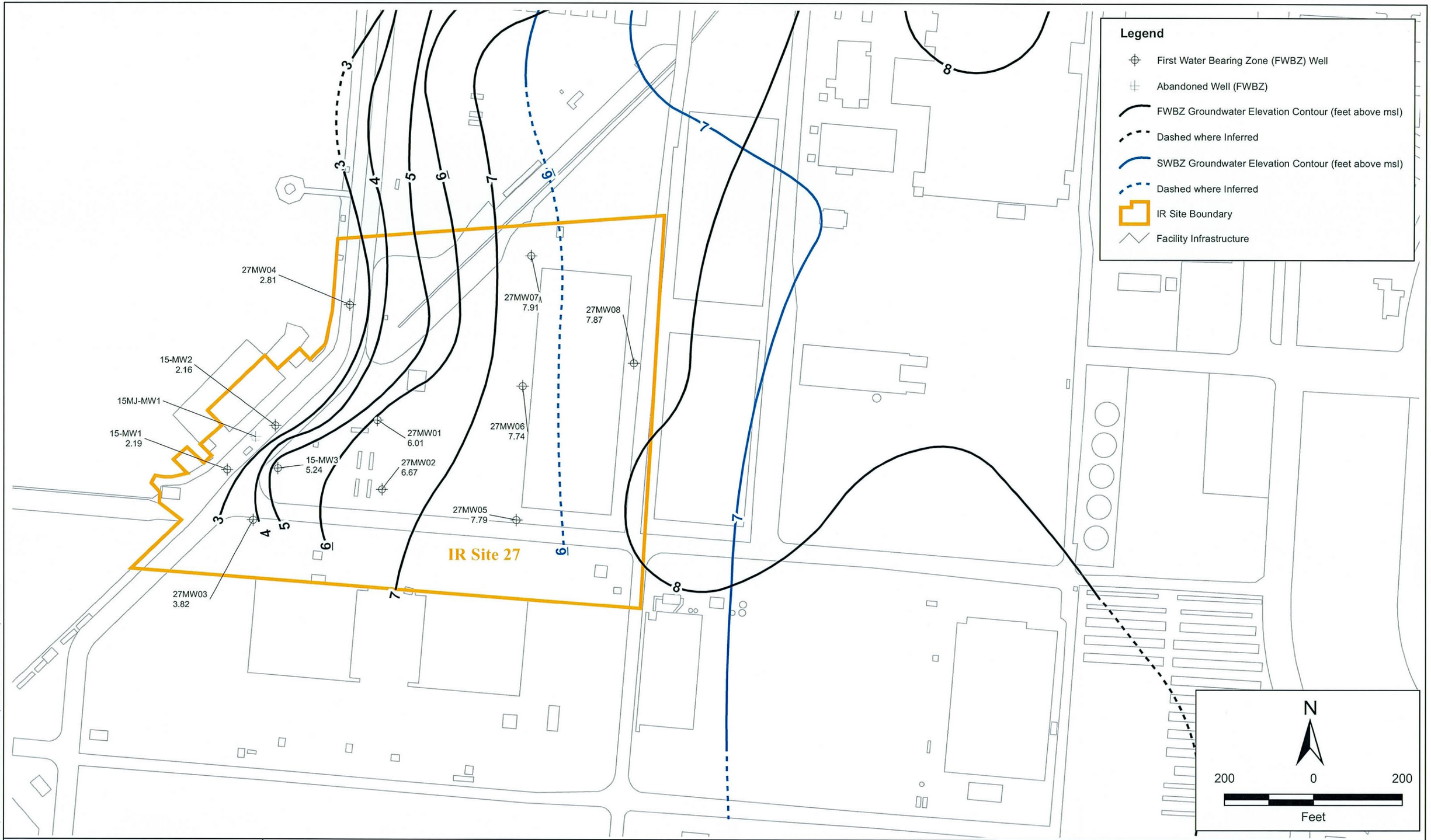

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FIGURE 10.2-2
OPERABLE UNIT 6 - IR SITE 27
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2007

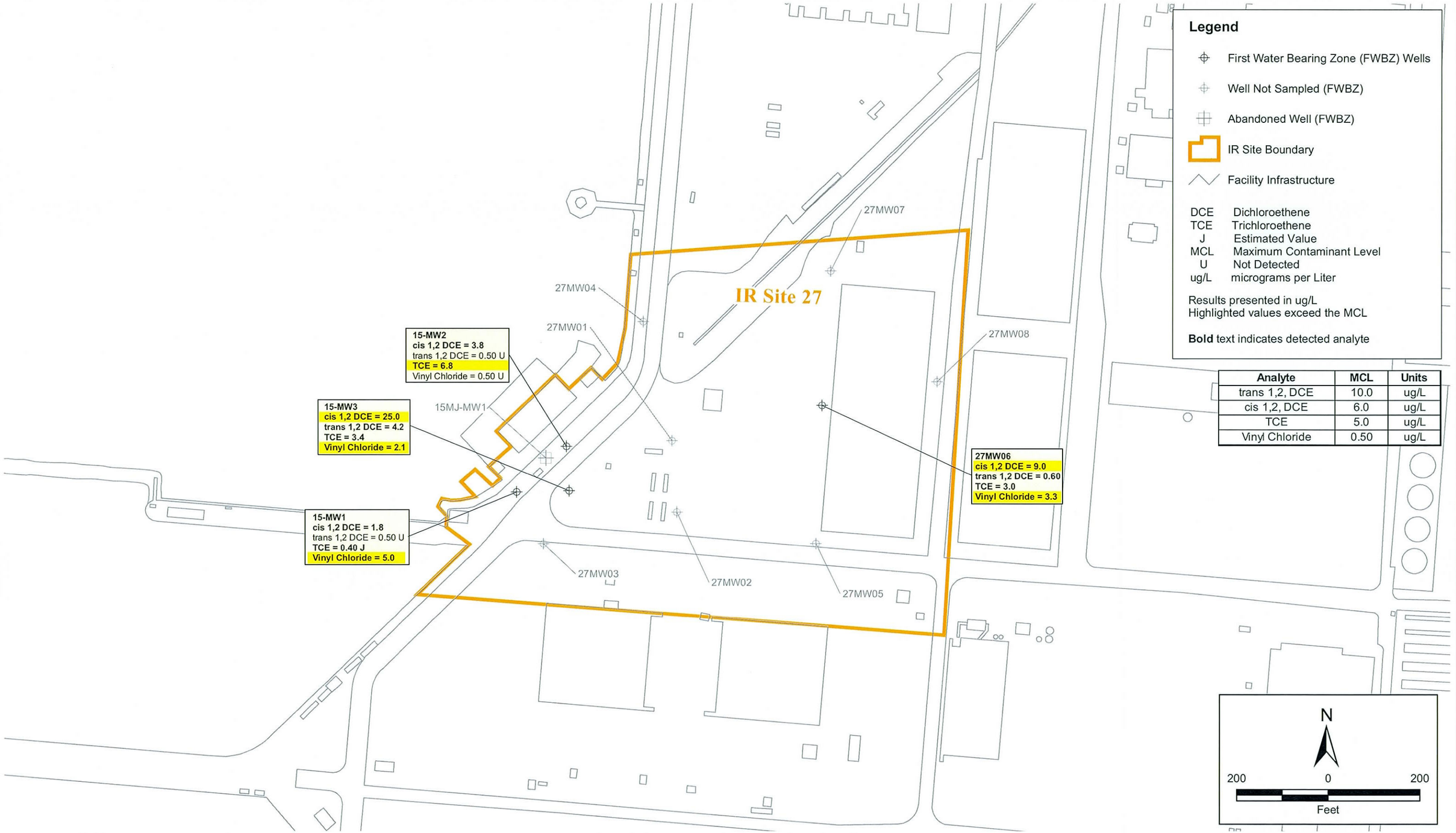

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FIGURE 10.2-3
OPERABLE UNIT 6 - IR SITE 27
GROUNDWATER CONCENTRATIONS OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2007

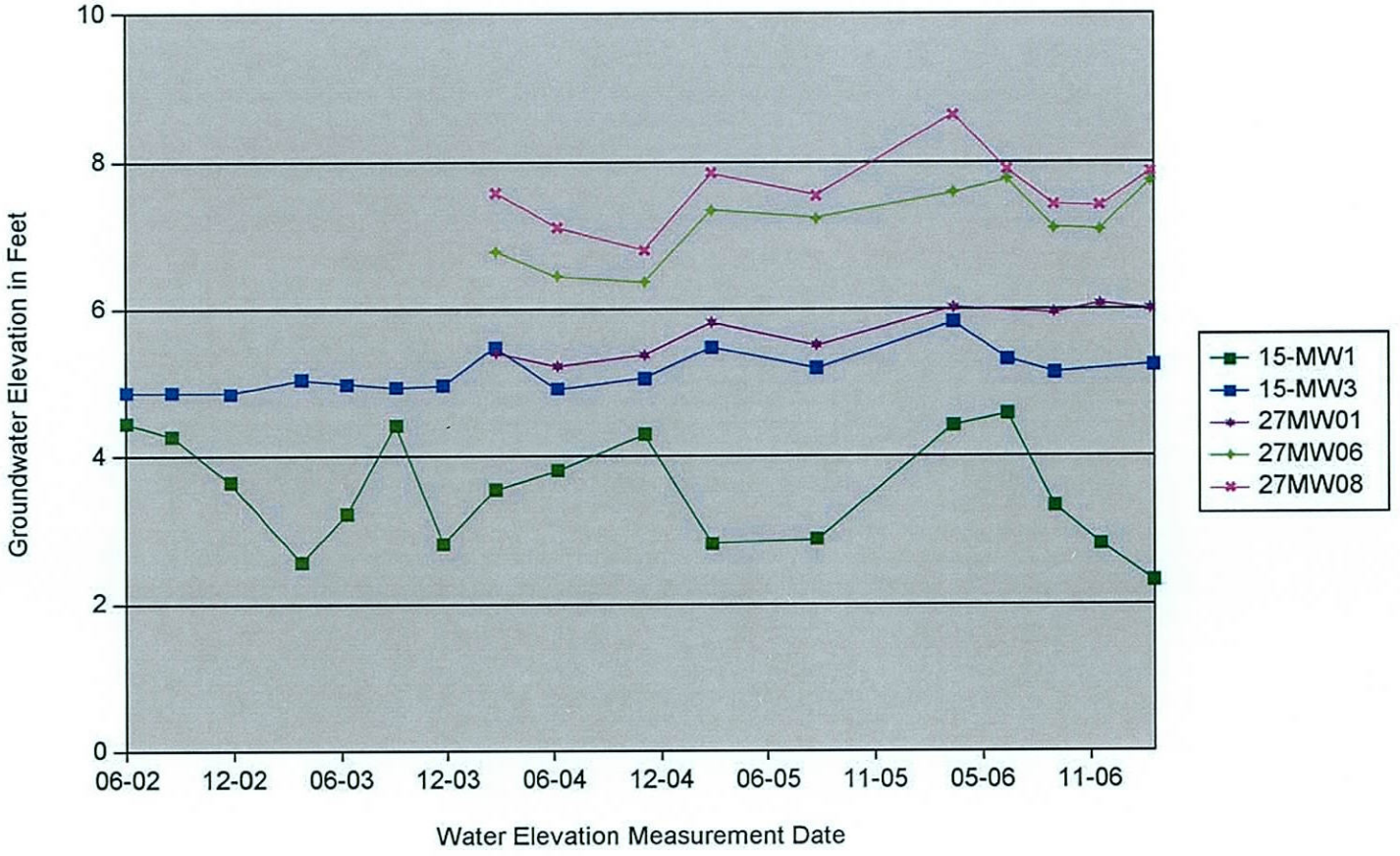

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FIGURE 10.2-4
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 6- IR SITE 27:
WEST-SOUTHWEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Projects\02-125.11\Graphics\Hydrographs\Site 27\Figure 10.2-4.ai

Legend

- First Water Bearing Zone (FWBZ) Wells
- Abandoned Well (FWBZ)
- IR Site Boundary
- Facility Infrastructure

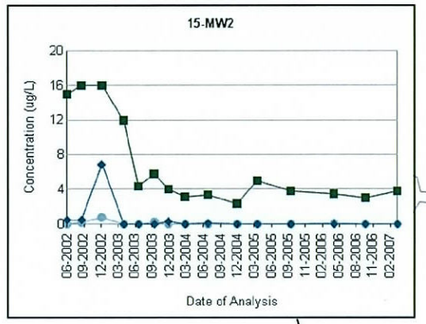
DCE Dichloroethene
MCL Maximum Contaminant Level
ug/L micrograms per Liter

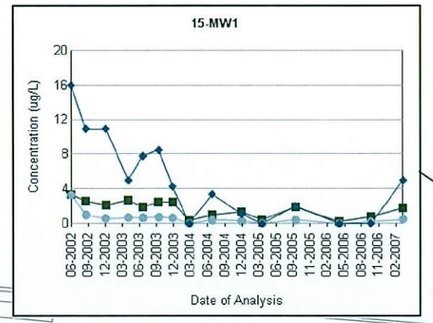
cis 1,2 DCE
trans 1,2 DCE
Vinyl Chloride

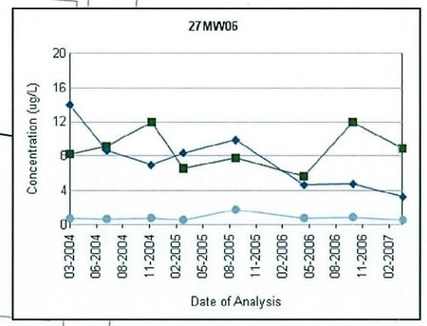
Analyte	MCL	Units
cis 1,2 DCE	6.0	UG/L
trans 1,2 DCE	10.0	UG/L
Vinyl Chloride	0.50	UG/L

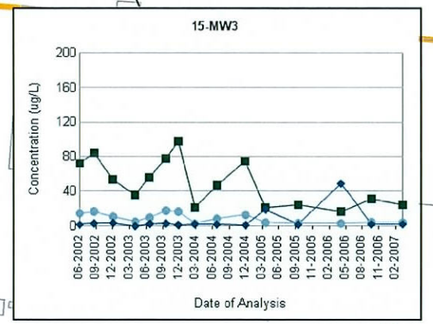
IR Site 27

27MW04
27MW07
27MW01
27MW08
15MJ-MW1
27MW03
27MW02
27MW05









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Feet

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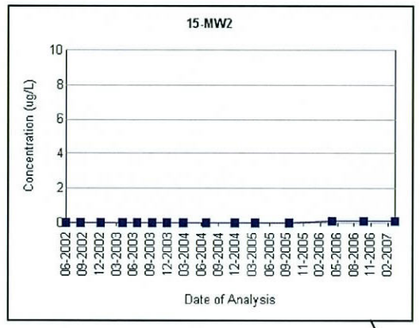
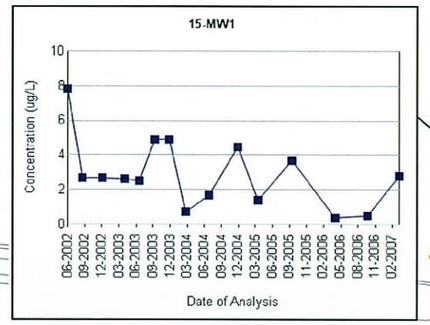
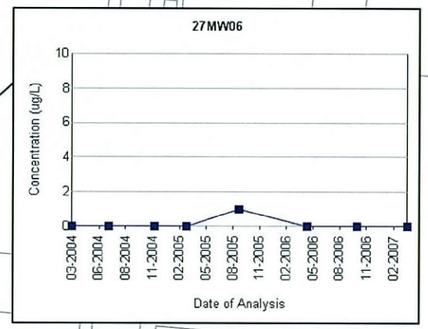
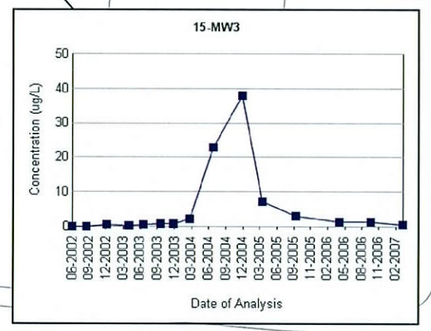
FIGURE 10.2-5
OPERABLE UNIT 6 - IR SITE 27
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007









Legend

- Abandoned Well (FWBZ)
- First Water Bearing Zone (FWBZ) Wells
- Facility Infrastructure
- IR Site Boundary

MTBE Methyl tert-butyl ether
MCL Maximum Contaminant Level
ug/L micrograms per Liter

MTBE

Analyte	MCL	Units
MTBE	13.0	UG/L

N

200 0 200

Feet

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FIGURE 10.2-6
OPERABLE UNIT 6 - IR SITE 27
GROUNDWATER CONCENTRATIONS OF MTBE
OVER TIME IN SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

2002 Project\11\Graphics\Alameda Point GIS\2007 Maps\Trend Maps\Spr 07 27 MTBE Trend Map.mxd

10.3 INSTALLATION RESTORATION SITE 28

IR Site 28 is a 2.9-acre site along the Oakland Inner Harbor waterfront that currently contains portions of a fenced dog park and a parking lot (Figure 1-2). There are no buildings on the site.

Todd Shipyards Corporation purchased IR Site 28 from the Navy in 1970 and used it as an extension of the adjoining shipyard property until 1983, when the corporation sold its property to Alameda Gateway Limited. IR Site 28 reverted to Navy ownership in 1995 after a dispute arose regarding transfer (Bechtel, 2004).

The two most likely sources of chemicals in soil and groundwater at IR Site 28 are former railroads that crossed the site and historic shipyard activities at and near the site. Two generations of the Alameda Mole railroad causeway were built across the future location of IR Site 28, and were present from 1883 until at least 1939. The first Alameda Mole railroad causeway, which was built over the Oakland Estuary, burned to the waterline in 1902; debris from burned railroad ties, tracks, trestles, and railcars was most likely buried beneath the fill material that forms IR Site 28. The debris could be a source of elevated arsenic from rail-tie preservatives; and activities including shipbuilding and ship repair (1941 through 1983) are also a likely source of elevated metals concentrations. The rebuilt Alameda Mole railroad causeway (approximately 1905 to 1939) is a likely source of elevated arsenic (from rail-tie preservatives and from arsenic-containing herbicides used to keep the tracks clear of vegetation). The presence of organotin compounds, commonly used as biocides in paints and undercoatings for ocean-going ships, is a strong indicator that metals in soil along the shoreline at IR Site 28 are related to shipyard wastes (Bechtel, 2004).

IR Site 28 was incorporated into the Alameda Basewide Monitoring Program in 2004 and was first sampled as part of the program during the Summer 2004 event. The Summer 2006 through Spring 2007 Basewide Groundwater Monitoring Program at IR Site 28 summarized in this report included sampling and analysis of four FWBZ groundwater monitoring wells. The groundwater monitoring points included in the monitoring program for the current sampling year are listed in Table 10.3-1 along with their analytical requirements. The table also shows the screened

interval, water-bearing zone, and geologic formation for each well. The site and well locations are presented on Figure 10.3-1.

10.3.1 Groundwater Level Measurement Summary

Groundwater levels were measured at the four site groundwater monitoring wells during the Summer 2006 through Spring 2007 sampling events at IR Site 28. The results are presented along with historical water-level data in Table 10.3-2. Groundwater flow directions and gradients are discussed in Section 10.3.4.1, and trends in groundwater elevation data are discussed in Section 10.3.4.4.

10.3.2 Analytical Parameters

Groundwater monitoring wells at IR Site 28 collected during the Summer 2006 through Spring 2007 sampling events were analyzed for the following parameters:

- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Hexavalent Chromium by EPA Method 7196A
- Total Dissolved Solids by EPA Method 160.1

Table 10.3-1 lists the IR Site 28 groundwater monitoring wells that are active in the current Basewide Monitoring Program and their analytical requirements

10.3.3 Analytical Results Summary

The analytical results for the current sampling year (Summer 2006 through Spring 2007) are summarized in the following sections and listed, along with previously obtained analytical data, in the following tables:

- Table 10.3-3, "Groundwater Sample Analytical Results: Dissolved Metals at Operable Unit 6 - IR Site 28, Summer 2004 through Spring 2007"
- Table 10.3-4, "Groundwater Sampling Field Parameters at Operable Unit 6 – IR Site 28, Fall/Winter 2004 through Spring 2007"
- Table 10.3-5, "Groundwater Sample Analytical Results: Total Dissolved Solids at Operable Unit 6 - IR Site 28, Summer 2004 through Spring 2007"

Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent

than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are indicated on the tables with yellow highlighting. Concentrations exceeding AWQCs are indicated with blue highlighting. Concentrations exceeding both MCLs and AWQCs are indicated with light pink highlighting. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in Appendix E of the *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point* (Tetra Tech, 2004). Although presented in the OU-1 RI report, the background values listed therein apply to groundwater basewide. Concentrations exceeding background values are shown in bold text on the metals tables only.

10.3.4 Discussion of Results

The analytical results detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2006 to Spring 2007 sampling years are summarized as follows:

Arsenic was detected above its MCL of 10 µg/L in three wells, at a maximum concentration of 470 µg/L at well 28SW04 during the Summer 2006 sampling event.
Nickel was detected above its MCL of 100 µg/L in one well, 28SW03, at a maximum concentration of 190 µg/L during the Fall 2006 sampling event (Table 10.3-3).

Arsenic has been consistently detected well above the MCL and AWQC in well 28SW04, and at lower levels in the remaining wells, since the start of the sampling program. However, since the regulatory levels for arsenic were significantly decreased (as of 1/23/06), concentrations have exceeded the MCL in all four wells at Site 28. Nickel has been detected above its MCL at one well, 28SW03, for seven of the nine sampling events (in Summer and Fall/Winter 2004, Summer 2005, Summer 2006, Fall 2006, Winter 2006, and Spring 2007). Thallium was previously detected above its MCL of 2.0 µg/L (in Spring 2005 and Summer 2005 at well 28SW01 and in Summer 2005 at well 28SW04). Most historical results for thallium at these wells have been below the MCL including the most recent result of 0.53J µg/L from well 28SW01 in Fall 2006. Hexavalent chromium was detected in two wells, 28SW01 and 28SW03, during the Fall 2006 sampling event at concentrations well below the MCL. Field parameters measured during sampling are presented in Table 10.3-4.

The Site 28 analytical results detected at concentrations exceeding their respective AWQCs in FWBZ wells during the Summer 2006 to Spring 2007 sampling year are summarized as follows:

Arsenic was detected above its AWQC of 36 µg/L during the current year in one well, 28SW04 , at a maximum concentration of 470 µg/L during the Summer 2006 sampling event.

Copper was detected above its AWQC of 3.1 µg/L during the current year in three wells during the Summer 2006 sampling event; the maximum concentration of 130 µg/L occurred at well 28SW03.

Nickel was detected above its AWQC of 8.2 µg/L during the current year in two wells during the Fall 2006 sampling event; the maximum concentration of 190 µg/L occurred at well 28SW03.

Zinc was detected above its AWQC of 81 µg/L during the current year in one well during the Summer 2006 sampling event; the maximum concentration of 260 µg/L occurred at well 28SW03.

Copper, nickel, and zinc results significantly and consistently exceeded both AWQC and Alameda basewide background values at well 28SW03, and slightly and sporadically exceeded the AWQC at some of the other site wells (Table 10.3-3). Arsenic concentrations only exceeded the AWQC in well 28SW04, located farthest inland.

10.3.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 10.3-2. Groundwater flow direction in the FWBZ is generally towards the northeast at a gradient of approximately 0.02 feet per foot. There are no SWBZ wells in IR Site 28.

10.3.4.2 Groundwater Contaminant Distribution

Among IR Site 28 metals results for the current sampling year, arsenic and nickel exceeded an MCL in one or more wells. In addition, arsenic, copper, nickel, and zinc concentrations exceeded the AWQC and the Alameda basewide background values in one or more wells (Table 10.3-3). The arsenic MCL exceedances occurred at wells 28SW01, 28SW02, and 28SW04, and

have been fairly consistent in magnitude since sampling began at this site in 2004. Arsenic values are highest at well 28SW04, where they are among the highest at Alameda Point, ranging from 250 to 470 µg/L in recent years; the concentrations at this well also significantly exceed the AWQC. Copper, nickel, and zinc concentrations that are significantly above background and AWQCs at well 28SW03 are also among the highest concentrations of these metals detected at Alameda Point. These results appear to signify contamination in the vicinity of this well rather than background conditions, and appear to represent some of the most-significant metals contamination at the base. Based on a history of very sporadic detections, the thallium results above MCLs are not believed to represent ongoing thallium contamination.

10.3.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2006 through Spring 2007) are summarized in Table 10.3-6, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Historical sampling results (Summer 2004 through Spring 2006) are also shown in this table. Results for the current sampling year are fairly consistent with prior results. Concentrations exceeding MCLs are highlighted in yellow on the table.

10.3.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevation over time are illustrated on Figure 10.3-3 for all four wells. Seasonal trends are irregular, and elevations may more likely reflect tidal influence, a likely factor at these near-shore locations.

10.3.4.5 Trends in Groundwater Contaminant Concentrations

Trends in groundwater contaminant concentrations in selected wells over time are displayed on Figures 10.3-4. Trend curves of arsenic, nickel, and thallium generally show small variations between sampling events.

10.3.5 Conclusions and Recommendations

Metals are the contaminants of concern at IR Site 28. Metals exceeding MCLs include arsenic, nickel, and thallium. Metals exceeding the AWQC include arsenic, copper, nickel, and zinc. Arsenic has been detected at concentrations above the MCL and the AWQC in the farthest-inland well (28SW04) in all rounds of sampling, although concentrations generally have been

decreasing over the relatively short period of monitoring completed so far at the site. A new well (28SW05) was installed downgradient of this location in July 2007, and this well is recommended for inclusion in future sampling events to track the near-shore arsenic concentrations. Nickel was detected at concentrations above the AWQC and background value, and slightly above the MCL, in the northernmost well (28SW03) at levels much higher than the other site wells. Copper concentrations at well 28SW03 were also significantly and consistently higher than concentrations at other site wells. Thallium was detected above the MCL in two wells during the Summer 2005 through Spring 2006 sampling year, but concentrations at these wells have more commonly been below the MCL, and were again below the MCL during the Summer 2006 through Spring 2007 sampling year.

Based on the preliminary results of the CERCLA data gaps investigation at IR Site 28, inclusion of the new well (28SW5) into the basewide groundwater monitoring program is recommended. Continued monitoring of dissolved metals at Site 28 is recommended, with the following revisions for the 2007-2008 program years:

- Existing wells 28SW01 and 28SW02, where metals have rarely exceeded MCLs or AWQC levels, should be sampled once a year;
- Existing wells 28SW03 and 28SW04, where several metals commonly exceed MCLs and AWQC levels, but have been monitored since 2004, should be monitored twice a year;
- New well 28SW05, which has been sampled only once since it was installed, should be monitored on a quarterly basis.

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SSIC NO. 5090.3.A.

TABLES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., 2004)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values that exceed the background value are bolded for metals.
Detected values greater than the MCL are shown in yellow highlighting
Detected values greater than the AWQC are shown in blue highlighting
Detected values greater than the both the MCL and the AWQC are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 10.3-1
Groundwater Monitoring Summary, Operable Unit 6-IR Site 28, Summer 2006 through Spring 2007

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Inorganic Compounds		
				Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	TDS (EPA Method 160.1)
Groundwater Monitoring Program Wells						
First	28SW01	Fill-BSU	6 - 16	A	A	A
	28SW02	Fill-BSU	6.2 - 16.3	A	A	A
	28SW03	Fill-BSU	6.2 - 16.2	S	S	S
	28SW04	Fill-BSU	5.4 - 15.7	S	S	S
	28SW05	Fill	5 - 15	Q	Q	Q

Notes:

Q	Well sampled for this analyte group QUARTERLY; Spring 2008, Summer 2008, Fall 2008, and Winter 2008
S	Well sampled for this analyte group SEMIANNUALLY; Spring 2008 and Fall 2008
A	Well sampled for this analyte group ANNUALLY; Spring 2008

Fill - Artificial Fill
BSU - Bay Sediment Unit
FT. BGS - Feet below ground surface
(EPA 7196A) - U.S. Environmental Protection Agency analytical method
TDS - Total Dissolved Solids

Table 10.3-2
Summary of Groundwater Level Measurements at
Operable Unit 6 - IR Site 28-
Summer 2002 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	28SW01	9.18	10.67	03/12/07	5.11	5.56
		9.18	10.67	12/13/06	4.81	5.86
		9.18	10.67	09/27/06	4.87	5.80
		9.18	10.67	07/10/06	4.61	6.06
		9.18	10.67	04/17/06	4.55	6.12
		9.18	10.67	08/22/05	4.30	6.37
		9.18	10.67	02/28/05	4.50	6.17
		9.18	10.67	11/09/04	4.53	6.14
		9.18	10.67	06/17/04	4.64	6.03
First	28SW02	10.93	10.86	03/12/07	7.71	3.15
		10.93	10.86	12/13/06	7.41	3.45
		10.93	10.86	09/27/06	7.10	3.76
		10.93	10.86	07/10/06	7.71	3.15
		10.93	10.86	04/17/06	7.55	3.31
		10.93	10.86	08/22/05	6.70	4.16
		10.93	10.86	02/28/05	7.48	3.38
		10.93	10.86	11/09/04	6.99	3.87
		10.93	10.86	06/17/04	7.51	3.35
First	28SW03	10.98	10.42	03/12/07	8.79	1.63
		10.98	10.42	12/13/06	8.91	1.51
		10.98	10.42	09/27/06	7.33	3.09
		10.98	10.42	07/10/06	8.52	1.90
		10.98	10.42	04/17/06	8.25	2.17
		10.98	10.42	08/22/05	6.70	3.72
		10.98	10.42	02/28/05	8.42	2.00
		10.98	10.42	11/09/04	7.12	3.30
		10.98	10.42	06/17/04	7.93	2.49
First	28SW04	10.96	11.08	03/12/07	NM	NC
		10.96	11.08	12/13/06	NM	NC
		10.96	11.08	09/27/06	6.42	4.66
		10.96	11.08	07/10/06	6.31	4.77
		10.96	11.08	04/17/06	5.70	5.38
		10.96	11.08	08/22/05	6.20	4.88
		10.96	11.08	02/28/05	8.69	2.39
		10.96	11.08	11/09/04	6.34	4.74
		10.96	11.08	06/17/04	6.61	4.47

Notes:
BTOC = below top of casing
msl = mean sea level
NM= Not measured
NC= Not calculated

Table 10.3-3

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 6 - IR Site 28

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
28SW01	2007 02 (Summer)		1.6	19.0	54.0	0.38 J	0.76 J	1.3 J	0.21 J	1.7 J	< 10.0	< 3.0 UJ	0.48 J	< 0.20	7.6 J	1.2 J	0.20 J	0.61 J	0.55 J	21.0	14.0 J	37.0 J	< 100	350	960	300	7700
	2007 01 (Spring)		1.2	21.0	47.0	< 2.0	0.49 J	1.6 J	0.34 J	21.0 J	< 10.0	< 3.0 UJ	1.2 J	< 0.20	7.7 J	1.9 J	0.71 J	0.40 J	< 5.0	19.0	< 15.0	20.0 J	< 100	310	790	260	7300
	2006 04 (Winter)		1.2	20.0	53.0	< 2.0	0.64 J	1.9 J	0.16 J	2.4 J	< 10.0	< 3.0	3.9	< 0.20	7.1 J	0.85 J	0.50 J	0.47 J	< 5.0	19.0	8.3 J	< 13.2	< 75.0	310 J	930 J	270 J	7200 J
	2006 03 (Fall)		1.4	21.0	61.0	< 2.0	< 5.0	1.3 J	< 1.0	2.1 J	20.0	< 3.0 UJ	0.42 J	< 0.20	19.0 J	1.2 J	< 5.0	< 5.0	0.53 J	28.0 J	9.2 J	540	1200 J	320 J	950 J	290 J	8400 J
	2006 02 (Summer)		1.7	24.0	58.0	< 2.0	< 5.0	< 10.0	0.079 J	< 10.0	< 10.0	1.0 J	< 10.0	0.18 J	7.1 J	< 20.0	0.42 J	6.0 J	< 5.0	22.0	11.0 J	< 100	< 100	290	880	270	6900
	2006 01 (Spring)		1.2	28.0 J	36.0	< 2.0	< 5.0	5.2 J	0.48 J	5.7 J	10.0	< 3.0	< 50.0	< 0.20	9.5 J	4.4 J	13.0	0.077 J	< 5.0	23.0	15.0 J	< 100	620	190	570	210	5400
	2005 02 (Summer)		2.0	21.0	58.0	< 2.0	< 5.0	< 10.0	0.42 J	< 10.0	< 10.0	< 3.0	< 10.0	< 0.20	7.4 J	< 20.0	4.2 J	< 5.0	6.5	24.0	18.0 J	96.0 J	< 100	320	970	300	7200
	2005 01 (Spring)		1.1	18.0	31.0	< 2.0	< 5.0	1.4 J	0.48 J	< 10.0	< 10.0	< 3.0	< 10.0	< 0.20	7.5 J	< 20.0	< 5.0	< 5.0	4.7 J	19.0	12.0 J	< 100	< 100	270	840	310	7000
	2004 04 (Winter)		1.2	18.0	48.0	< 2.0	< 5.0	< 10.0	0.76 J	3.3 J	< 10.0	< 3.0	< 10.0	0.053 J	9.1 J	< 20.0	< 5.0	< 5.0	< 5.0	19.0	14.0 J	< 100	< 100	320	920	310	8500
	2004 02 (Summer)		1.5	6.2	57.0	< 2.0	< 5.0	< 10.0	0.86 J	43.0	< 10.0	0.58 J	< 10.0	0.081 J	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	24.0	7.2 J	< 50.0	< 100	380	1100	370	9000
28SW02	2007 02 (Summer)		< 1.0	2.4 J	250	< 2.0 UJ	< 5.0	4.7 J	0.23 J	< 10.0 UJ	< 10.0	< 3.0 UJ	490	0.038 J	< 20.0	< 20.0 UJ	1.1 J	< 5.0 UJ	< 5.0	12.0	8.0 J	< 100	480	190	800	180	5800
	2007 01 (Spring)		0.34 J	8.5	280	< 2.0	0.087 J	5.8 J	0.32 J	0.28 J	< 10.0	< 3.0 UJ	430	< 0.20	2.6 J	4.9 J	< 5.0	0.12 J	< 5.0	18.0	< 6.6	< 6.1	710	290	910	200	6300
	2006 04 (Winter)		0.096 J	1.9 J	330	< 2.0	0.35 J	6.1 J	0.81 J	0.72 J	< 10.0	< 3.0	670	< 0.20	11.0 J	0.40 J	0.52 J	0.22 J	< 5.0	13.0	7.0 J	530	1400	230 J	860 J	220 J	5900 J
	2006 03 (Fall)		< 1.0	6.9	270	< 2.0	< 5.0	6.8 J	< 1.0	3.9 J	< 10.0	< 3.0 UJ	590	< 0.20	< 20.0 UJ	0.42 J	< 5.0	< 5.0	< 5.0	21.0 J	< 20.0	140	850 J	210 J	790 J	190	6400 J
	2006 02 (Summer)		< 1.0	14.0	220	< 2.0	< 5.0	6.2 J	0.84 J	< 10.0	< 10.0	< 3.0	530	< 0.20	< 20.0	3.0 J	< 5.0	5.1 J	< 5.0	17.0	20.0	< 100	1200	230	830	190	6000
	2006 01 (Spring)		3.1	31.0 J	170	< 2.0	< 5.0	6.3 J	1.2	10.0	< 10.0	< 3.0	340	0.030 J	11.0 J	37.0	16.0	< 5.0	< 5.0	53.0	60.0	< 100	2000	290	660	140	4000
	2005 02 (Summer)		1.6	33.0	210	< 2.0	< 5.0	7.4 J	0.42 J	6.9 J	< 10.0	< 3.0	290	< 0.20	4.0 J	14.0 J	< 5.0	2.7 J	< 5.0	63.0	23.0	83.0 J	310	200	720	190	4900
	2005 01 (Spring)		1.4	19.0	200	< 2.0	< 5.0	5.7 J	0.80 J	6.8 J	< 10.0	< 3.0	490	< 0.20	4.4 J	15.0 J	< 5.0	< 5.0	< 5.0	29.0	15.0 J	< 100	1200	270	870	240	6400
	2004 04 (Winter)		1.0	8.6	280	< 2.0	< 5.0	6.6 J	0.95 J	3.8 J	< 10.0	< 3.0	470	0.13 J	3.0 J	6.0 J	< 5.0	< 5.0	< 5.0	26.0	7.1 J	< 100	340	250	890	260	8000
	2004 02 (Summer)		0.38 J	< 1.0	210	< 1.0	< 5.0	8.2	0.99 J	5.2	< 10.0	0.57 J	470	0.052 J	< 20.0	6.6	< 1.0	< 5.0	< 1.0	18.0	< 1.0	< 50.0	410	230	900	240	6900
28SW03	2007 02 (Summer)		3.4	4.8 J	93.0	< 2.0 UJ	0.99 J	4.5 J	< 1.0 UJ	64.0 J	< 10.0	< 3.0 UJ	8.2 J	0.19 J	9.9 J	130 J	0.23 J	0.12 J	< 5.0	55.0	170	< 100	< 100	200	800	200	5900
	2007 01 (Spring)		3.7	6.2	79.0	< 2.0	0.73 J	9.6 J	0.16 J	86.0	< 10.0	0.60 J	6.7 J	0.29	12.0 J	170	0.56 J	< 5.0	< 5.0	54.0	210	34.0 J	27.0 J	180	870	190	7500
	2006 04 (Winter)		1.3	6.5	130	< 2.0	0.87 J	< 10.0	0.27 J	95.0	< 10.0	< 3.0	9.1	0.31	14.0 J	110	0.51 J	0.20 J	< 5.0	78.0	180	220	660	240 J	860 J	230 J	6400 J
	2006 03 (Fall)		3.6	7.2	97.0	< 2.0	< 5.0	6.2 J	< 1.0	120	20.0	< 3.0 UJ	13.0	0.72	11.0 J	190	< 5.0	< 5.0	< 5.0	66.0 J	190	< 100	< 100 UJ	190	750 J	180	5300 J
	2006 02 (Summer)		5.1	6.6	67.0	< 2.0	< 5.0	9.0 J	0.31 J	130	< 10.0	2.0 J	13.0	0.36	12.0 J	190	0.36 J	3.8 J	< 5.0	60.0	270	< 100	< 100	190	750	190	5100
	2006 01 (Spring)		4.2	13.0 J	36.0	< 2.0	0.20 J	11.0	0.39 J	120	< 10.0	0.93 J	< 50.0	0.28	15.0 J	91.0	9.8	< 5.0	< 5.0	83.0	80.0	< 100	330	92.0	400	120	3100
	2005 02 (Summer)		5.5	< 50.0	84.0	< 2.0	1.6 J	8.9 J	0.63 J	210	< 10.0	< 3.0	60.0	1.2	15.0 J	280	< 5.0	3.0 J	< 5.0	64.0	290	170 J	270	210	800	210	5300
	2005 01 (Spring)		1.7	2.9 J	58.0	< 2.0	< 5.0	< 10.0	0.42 J	98.0	< 10.0	< 3.0	< 10.0	0.26	14.0 J	85.0	< 5.0	< 5.0	< 5.0	100	140	< 100	< 100	170	690	210	5600
	2004 04 (Winter)		2.4	6.9	97.0	< 2.0	0.71 J	< 10.0	0.79 J	130	< 10.0	< 3.0	< 10.0	0.21	11.0 J	130	< 5.0	< 5.0	< 5.0	98.0	210	< 100	< 100	240	850	270	7800

FWBZ

ITSI Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10.3-3

Groundwater Sample Analytical Results Dissolved Metals at Operable Unit 6 - IR Site 28

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1000	4.0	5.0	50.0	NA	1000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1000	NA	NA	NA	NA	NA
		BV:	37.5	20.7	570	2.5	3.9	12.5	17.2	24.2	NA	6.7	1740	0.20	12.7	21.0	8.4	4.9	13.8	26.3	36.4	1070	6590	157	356	147	3710
Well No.	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	28SW03	2004 02 (Summer)	3.9	< 1.0	90.0	< 1.0	< 5.0	5.0	1.0	**93.0**	< 10.0	0.83 J	< 10.0	0.11 J	**14.0 J**	**120**	< 1.0	< 5.0	< 1.0	**120**	**89.0**	< 50.0	< 100	**260**	**980**	**280**	**7100**
	28SW04	2007 02 (Summer)	< 1.0	**450**	170	< 2.0 UJ	< 5.0	1.7 J	1.8 J	1.5 J	< 10.0	< 3.0 UJ	**7300**	0.023 J	6.7 J	5.5 J	0.24 J	< 5.0 UJ	< 5.0	3.0 J	11.0 J	< 100	4000	110	82.0	9.9	380
		2007 01 (Spring)	0.15 J	**420**	170	< 2.0	< 5.0	1.9 J	2.3	0.59 J	< 10.0	< 3.0	**7700**	< 0.20	7.7 J	5.8 J	< 5.0	< 5.0	< 5.0	5.2 J	< 12.0	30.0 J	4100	120	92.0	11.0	380
		2006 04 (Winter)	0.41 J	**380**	180	0.19 J	0.18 J	1.8 J	2.6	2.0 J	< 10.0	0.40 J	**8900 J**	< 0.20	5.7 J	8.4 J	0.46 J	0.19 J	< 5.0	2.4 J	19.0 J	< 24.0	3900	130	100	11.0	400 J
		2006 03 (Fall)	< 1.0	**430**	170	< 2.0	< 5.0	1.5 J	1.6	0.35 J	< 10.0	< 3.0 UJ	**8800 J**	< 0.20	5.8 J	4.8 J	< 5.0	< 5.0	< 5.0	5.2 J	**62.0**	90.0 J	2700 J	130	100	12.0	420 J
		2006 02 (Summer)	< 1.0	**470**	140	< 2.0	< 5.0	4.5 J	2.6	< 10.0	< 10.0	2.0 J	**7800**	< 0.20	6.2 J	4.5 J	< 5.0	1.9 J	< 5.0	< 10.0	< 20.0	< 100	2100	140	98.0	12.0	480
		2006 01 (Spring)	< 1.0	**350 J**	120	< 2.0	< 5.0	< 10.0	2.4	1.1 J	< 10.0	< 3.0	**7300**	< 0.20	8.5 J	6.8 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	3200	120	93.0	9.3	350
		2005 02 (Summer)	0.77 J	**440**	170	< 2.0	< 5.0	1.4 J	2.7	< 10.0	< 10.0	< 3.0	**9700**	< 0.20	7.0 J	10.0 J	< 5.0	< 5.0	6.3	3.5 J	13.0 J	< 100	2000	120	97.0	13.0	390
		2005 01 (Spring)	0.44 J	**250**	100	< 2.0	< 5.0	3.4 J	3.3	< 10.0	< 10.0	< 3.0	**9700**	< 0.20	9.1 J	7.7 J	< 5.0	< 5.0	< 5.0	3.1 J	< 20.0	< 100	1600	140	120	11.0	430
		2004 04 (Winter)	0.35 J	**280**	160	< 2.0	< 5.0	4.9 J	6.0	< 10.0	< 10.0	< 3.0	**12000**	< 0.20	7.2 J	9.6 J	< 5.0	< 5.0	< 5.0	4.0 J	9.1 J	< 100	1500	150	120	13.0	500
		2004 02 (Summer)	0.73 J	**420**	180	< 2.0	< 5.0	3.2 J	4.1	< 10.0	< 10.0	0.31 J	**12000**	0.064 J	8.6 J	9.8 J	3.3 J	< 5.0	< 1.0	< 10.0	36.0	< 50.0	970	**160**	120	14.0	540

Innovative Technical Solutions, Inc.

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10.3-4
Groundwater Sampling Field Parameters at Operable Unit 6 - IR Site 28
Fall/Winter 2004 through Spring 2007
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	28SW01	04/04/07	6.76	1.16	70.1
		12/19/06	6.92	4.72	-51.6
		10/03/06	6.92	0.02	73.5
		05/03/06	7.39	2.67	1.0
		09/03/05	6.09	2.34	92.0
		03/21/05	7.24	1.43	83.0
		11/29/04	7.04	2.33	180.0
First	28SW02	04/04/07	7.48	0.37	-130.6
		12/19/06	7.29	0.44	-172.1
		10/03/06	7.48	0.03	-119.9
		05/03/06	7.66	0.93	-209.0
		09/03/05	6.90	0.44	-190.0
		03/21/05	7.69	0.00	-219.0
		11/29/04	7.67	0.16	51.0
First	28SW03	04/04/07	7.74	2.98	426.0
		12/19/06	7.29	0.72	-26.3
		10/03/06	7.54	0.28	132.3
		05/03/06	8.21	4.40	-38.0
		09/03/05	7.54	3.26	98.0
		03/21/05	8.01	0.00	70.0
		11/29/04	7.83	0.16	180.0
First	28SW04	04/04/07	6.96	0.06	-101.4
		12/19/06	6.80	0.47	-136.5
		10/03/06	6.82	0.35	-91.5
		05/03/06	7.24	0.64	-165.0
		09/03/05	6.74	3.30	-175.0
		03/21/05	7.12	0.00	-113.0
		11/29/04	6.95	0.10	101.0

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 10.3-5

Groundwater Sample Analytical Results: Total Dissolved Solids at Operable Unit 6 - IR Site 28

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TDS
			Total Dissolved Solids
		Units:	MG/L
		MCL:	NA
		BV:	NA
	Well No.	Event AWQC:	NA
FWBZ	28SW01	2007 01 (Spring)	22900
		2006 04 (Winter)	28200
		2006 03 (Fall)	25600
		2006 02 (Summer)	15000 J
		2006 01 (Spring)	3500
		2005 02 (Summer)	29100
		2005 01 (Spring)	23200
		2004 04 (Winter)	27600
		2004 02 (Summer)	27800
	28SW02	2007 01 (Spring)	17800
		2006 04 (Winter)	28000
		2006 03 (Fall)	19900
		2006 02 (Summer)	18700 J
		2006 01 (Spring)	16800
		2005 02 (Summer)	20800
		2005 01 (Spring)	21500
		2004 04 (Winter)	49700
		2004 02 (Summer)	22000

Table 10.3-5

Groundwater Sample Analytical Results: Total Dissolved Solids at Operable Unit 6 - IR Site 28

Summer 2002 through Spring 2007

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TDS
			Total Dissolved Solids
		Units:	MG/L
		MCL:	NA
		BV:	NA
	Well No.	Event AWQC:	NA
FWBZ	28SW03	2007 01 (Spring)	19200
		2006 04 (Winter)	21700
		2006 03 (Fall)	18600
		2006 02 (Summer)	16900 J
		2006 01 (Spring)	10500
		2005 02 (Summer)	19700
		2005 01 (Spring)	17900
		2004 04 (Winter)	26600
		2004 02 (Summer)	22100
	28SW04	2007 01 (Spring)	1750
		2006 04 (Winter)	1980
		2006 03 (Fall)	13800
		2006 02 (Summer)	190 J
		2006 01 (Spring)	3420
		2005 02 (Summer)	1850
		2005 01 (Spring)	1620
		2004 04 (Winter)	2240
		2004 02 (Summer)	2030

Table 10.3-6

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 6 - IR Site 28

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 6 - IR Site 28 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	4	4	5.1	28SW03	12 Jul 2006	5.5	28SW03	2005 02 (Summer)
Arsenic (UG/L)	4	4	470	28SW04	12 Jul 2006	450	28SW04	2007 02 (Summer)
Barium (UG/L)	4	4	330	28SW02	19 Dec 2006	280	28SW02	2004 04 (Winter)
Beryllium (UG/L)	1	4	0.19 J	28SW04	19 Dec 2006	0.38 J	28SW01	2007 02 (Summer)
Cadmium (UG/L)	4	4	0.87 J	28SW03	19 Dec 2006	1.6 J	28SW03	2005 02 (Summer)
Chromium (UG/L)	4	4	9.6 J	28SW03	04 Apr 2007	11.0	28SW03	2006 01 (Spring)
Hexavalent Chromium (UG/L)	2	4	20.0	28SW01	03 Oct 2006	10.0	28SW01	2006 01 (Spring)
Cobalt (UG/L)	4	4	2.6	28SW04	19 Dec 2006	6.0	28SW04	2004 04 (Winter)
Copper (UG/L)	4	4	130	28SW03	12 Jul 2006	210	28SW03	2005 02 (Summer)
Lead (UG/L)	3	4	2.0 J	28SW03	12 Jul 2006	0.93 J	28SW03	2006 01 (Spring)
Manganese (UG/L)	4	4	8900 J	28SW04	19 Dec 2006	12000	28SW04	2004 04 (Winter)
Mercury (UG/L)	2	4	0.72	28SW03	03 Oct 2006	1.2	28SW03	2005 02 (Summer)
Molybdenum (UG/L)	4	4	19.0 J	28SW01	03 Oct 2006	15.0 J	28SW03	2006 01 (Spring)
Nickel (UG/L)	4	4	190	28SW03	12 Jul 2006	280	28SW03	2005 02 (Summer)
Selenium (UG/L)	4	4	0.71 J	28SW01	04 Apr 2007	16.0	28SW02	2006 01 (Spring)
Silver (UG/L)	4	4	6.0 J	28SW01	12 Jul 2006	3.0 J	28SW03	2005 02 (Summer)
Thallium (UG/L)	1	4	0.53 J	28SW01	03 Oct 2006	6.5	28SW01	2005 02 (Summer)
Vanadium (UG/L)	4	4	78.0	28SW03	19 Dec 2006	120	28SW03	2004 02 (Summer)
Zinc (UG/L)	4	4	270	28SW03	12 Jul 2006	290	28SW03	2005 02 (Summer)
Aluminum (UG/L)	4	4	540	28SW01	03 Oct 2006	170 J	28SW03	2005 02 (Summer)
Iron (UG/L)	4	4	4100	28SW04	04 Apr 2007	4000	28SW04	2007 02 (Summer)
Calcium (MG/L)	4	4	320 J	28SW01	03 Oct 2006	380	28SW01	2004 02 (Summer)
Magnesium (MG/L)	4	4	950 J	28SW01	03 Oct 2006	1100	28SW01	2004 02 (Summer)
Potassium (MG/L)	4	4	290 J	28SW01	03 Oct 2006	370	28SW01	2004 02 (Summer)
Sodium (MG/L)	4	4	8400 J	28SW01	03 Oct 2006	9000	28SW01	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 10.3-6

Summary of Current Sampling Year Results and Comparison with Historical Data, Operable Unit 6 - IR Site 28

Current Round of Sampling (Summer 2006 - Spring 2007)						Historical Data (Summer 2002 - Spring 2006)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
Operable Unit 6 - IR Site 28 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Total Dissolved Solids (MG/L)	4	4	28200	28SW01	19 Dec 2006	40700	28SW02	2004 04 (Winter)

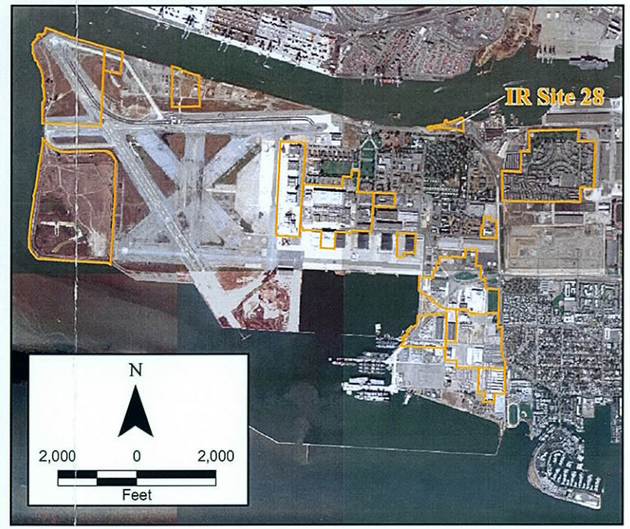
Result exceeds Maximum Contaminant Level (MCL)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

FIGURES

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008



Legend

- First Water Bearing Zone (FWBZ) Well
- New Well
- IR Site Boundary
- Facility

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Feet

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FIGURE 10.3-1
OPERABLE UNIT 6 - IR SITE 28
SITE AND WELL LOCATION MAP

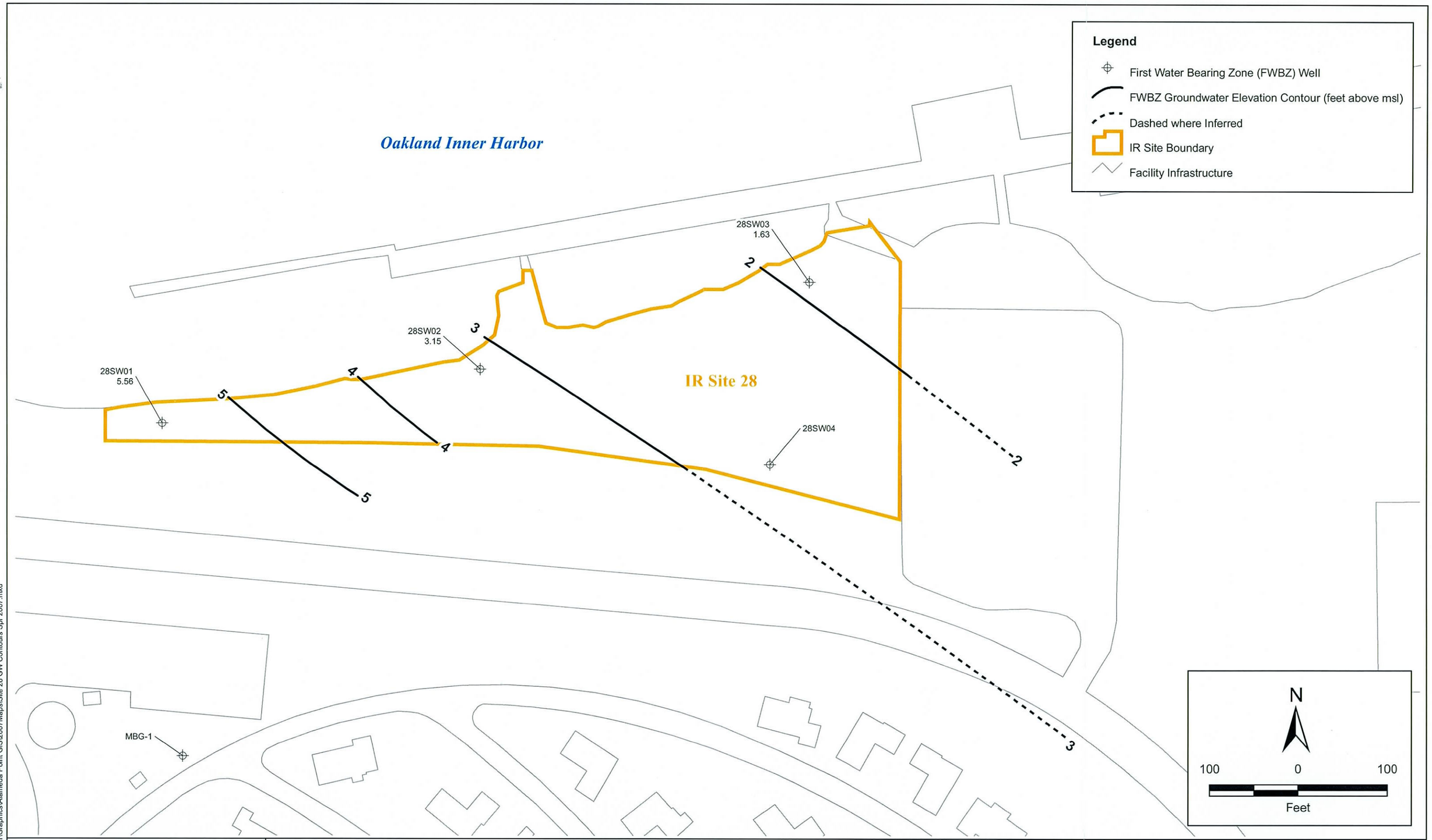

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FIGURE 10.3-2
OPERABLE UNIT 6 - IR SITE 28
GROUNDWATER ELEVATION MAP (FWBZ)
SPRING 2007

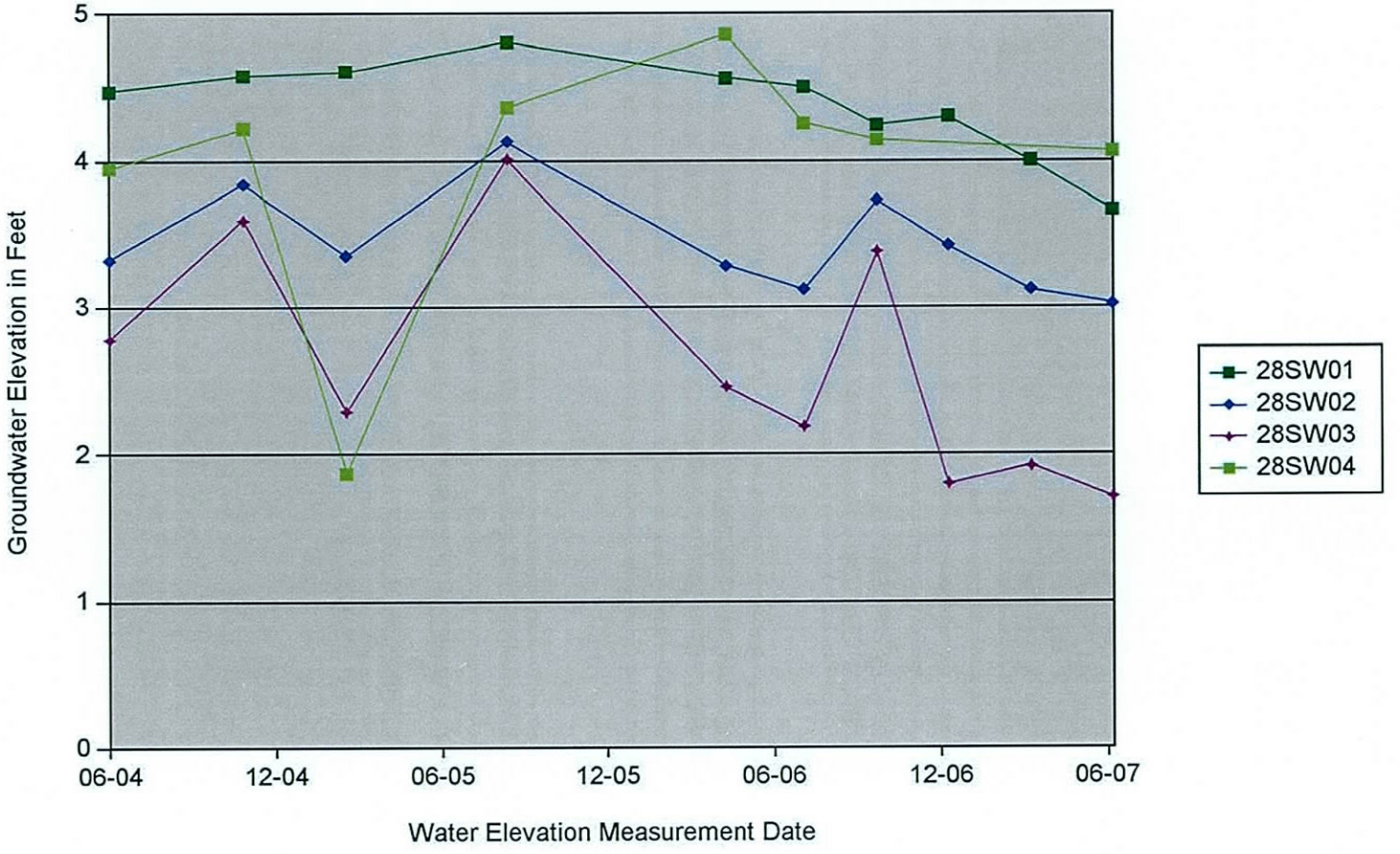

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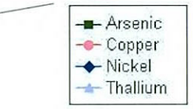
FIGURE 10.3-3
TRENDS IN GROUNDWATER ELEVATIONS AT
OPERABLE UNIT 6-IR SITE 28:
FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2007

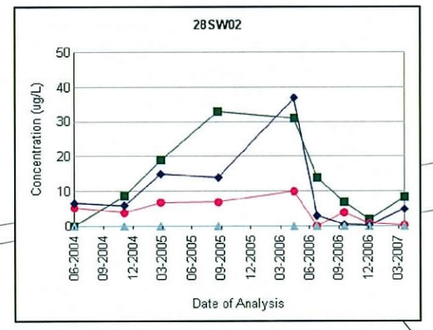
Legend

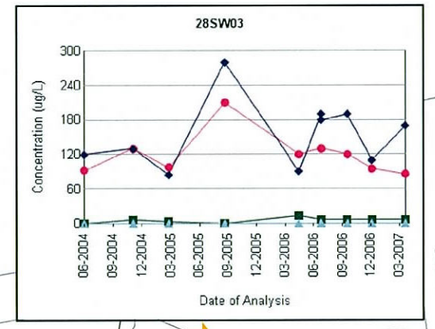
- First Water Bearing Zone (FWBZ) Well
- IR Site Boundary
- Facility Infrastructure

MCL Maximum Contaminant Level
ug/L Micrograms per Liter

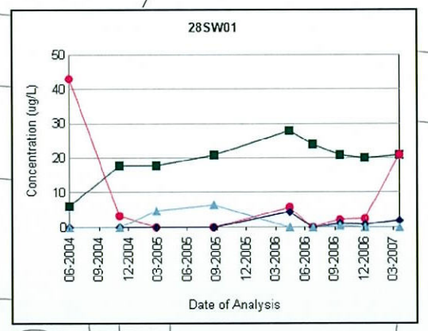


Analyte	MCL	Units
Arsenic	10.0	ug/L
Copper	1000.0	ug/L
Nickel	100.0	ug/L
Thallium	2.00	ug/L





IR Site 28



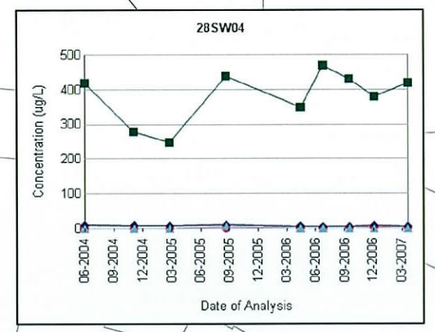


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FIGURE 10.3-4
OPERABLE UNIT 6 - IR SITE 28
GROUNDWATER CONCENTRATIONS OF METALS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2007

11.0 SUMMARY OF RECOMMENDATIONS

Based on the evaluation of analytical data collected in 2006-2007, contaminant maps, and plume extent, the following changes to the groundwater, landfill and soil gas sampling locations, frequency or analytical parameters are recommended for the basewide groundwater monitoring program:

Operable Unit 1:

IR Site 6

Based upon a review of the historical analytical results, the Navy recommends eliminating routine sampling and analysis for TPH, SVOCs and metals at this site. The Navy recommends continued sampling of the IR Site 6 Program wells for VOCs, 1,4-dioxane, and natural attenuation parameters.

Final approval of the proposed changes will be made after review of the status of Corrective Action Area 6B and the results of recent Data Gap SWMU sampling and initial sampling of newly-installed FWBZ and SWBZ groundwater monitoring wells completed as part of the Data Gap investigation.

IR Site 7

Based upon a review of the historical analytical results, the Navy recommends continued sampling for TPH-E, TPH-P, BTEX plus MTBE (EPA Method 8020), VOCs, PAHs, and metals and eliminating monitoring for natural attenuation parameters.

The natural attenuation database for IR Site 7 is currently adequate for the site needs. Final approval of the proposed changes will be made after review of the status of Corrective Action Area 7 and the results of recent sampling efforts at OWS 459.

After the Spring 2008 round; sampling at IR7 will be performed under the upcoming Petroleum Basewide Sampling Program (PBSP). The PBSP is under development, and a work plan will be

presented to the agencies for comment. The site is being transitioned to the Alameda Point Petroleum Program as specified in the Site 7 ROD.

IR Site 8

Given the sporadic detection of contaminants at this site, it is recommended that groundwater sampling at IR Site 8 be revised accordingly.

The Navy plans to suspend routine sampling under the BGMP at IR Site 8, as site data will be evaluated separately under the CERCLA program for the site beginning in Spring 2008.

IR Site 14

Routine sampling under the BGMP will be suspended at IR Site 14 beginning with the Spring 2008 sampling event as remedial action for the site is scheduled to commence during Spring 2008.

IR Site 16

The Navy recommends elimination of the analysis for PCBs.

Operable Unit 2A:

IR Site 9 Group

Based on review of the natural attenuation data base for IR Site 9, the Navy recommends eliminating analysis for natural attenuation parameters. Also, the Navy intended to begin semiannual sampling for 1,4-dioxane analysis of groundwater (by EPA Method 8270 SIM) at three IR Site 9 wells (MWD13-4, MW410-2, and MW410-3) during the Spring 2007 sampling event. This change to the sampling program was inadvertently overlooked during the Spring 2007 event, and will be initiated instead during the Fall 2007 sampling event. Semiannual analysis for 1,4-dioxane is intended to coincide with the current semiannual schedule for VOCs for the target wells, which were selected based on historical detections of PCE and cis-1,2-DCE from previous sampling events.

Based on the evaluation of data collected in 2006-2007, no other changes in groundwater sampling frequency or analytical parameters are recommended at IR Site 9 Group.

Operable Unit 2B:

IR Site 3 Group

IR Site 3 Group contaminants of concern include several chlorinated hydrocarbons and benzene. COCs also include 1,4-DCB, and metals chromium and nickel. Additional wells are recommended at the northern portion of the benzene plume north-northeast of well M03-04 to properly define the plume boundary.

Based on review of the natural attenuation database for IR Site 3 and evaluation of data collected in 2006–2007, the Navy recommends eliminating analysis for natural attenuation parameters. Due to exceedances in lead concentrations, continued quarterly monitoring of wells OU2B-MW01 and OU2B-MW02 is recommended for an additional year. Monitoring for 1,4-dioxane will continue for the proposed minimum of 4 events.

Since the corrective action area in question is a petroleum site, any additional evaluation that is deemed necessary to address the benzene distribution in this area will be conducted under the Navy's Petroleum Program. Additional CERCLA-related investigations will be deferred to the CERCLA program for OU-2B.

Operable Unit 2C:

IR Site 5 Group

Based on the remedial investigation and new wells installed in April 2007, changes in wells to be sampled, analytical parameters, and groundwater sampling frequency are recommended for groundwater sampling at the IR Site 5 Group during the next year. The proposed wells, analytical parameters, and groundwater sampling frequency for groundwater sampling events during the next year are presented in Table 6.1-11.

Specific recommendations (reflected in Table 6.1-11) include the following:

- Remove wells M-117-E and M12-04 from the sampling program for the next year (to be replaced by newly installed wells).
- For existing FWBZ wells, add semiannual sampling for 1,4-dioxane, and annual sampling for SVOCs and PAHs.
- For existing SWBZ wells, add annual 1,4-dioxane sampling. (Note that the sampling frequency of 1,4-dioxane mirrors the frequency of VOC analysis in each of the wells sampled for this parameter.)

After one year, the analytical results will be evaluated and changes to the sampling program will be recommended. The sampling during the next year is intended to be more frequent and comprehensive than the 2006–2007 sampling program, so that new wells have quarterly sampling for a large suite of analytes for one year and data from new and existing wells can be collected during the same time-frame. It is anticipated that subsequent sampling will be more similar to the 2006–2007 program. For water level measurements, it is recommended that all currently measured existing wells and the 15 new wells be measured in the future.

Operable Unit 3:

IR Site 1 and 32

For soil gas, it is recommended that TO 15 (VOC) analysis be changed to semiannual or annual frequency from the current quarterly schedule. No changes in groundwater sampling frequency or analytical parameters are recommended for this site.

Operable Unit 4A:

IR Site 2

For soil gas, it is recommended that TO 15 (VOC) analysis be changed to semiannual or annual frequency from the current quarterly schedule.

Based on review of the natural attenuation database for IR Site 2 and evaluation of data collected in 2006–2007, the Navy recommends discontinuing analysis for natural attenuation parameters. No other changes in the groundwater sampling frequency or analytical parameters are recommended at IR Site 2.

Operable Unit 5:

IR Site 25 Group

This site will not be monitored as part of the Basewide Groundwater Monitoring Program while remediation is in progress.

Operable Unit 6:

IR Site 27

This site will no longer be monitored as part of the Basewide Groundwater Monitoring Program, as it is in the Remedial Design phase.

IR Site 28

Based on the preliminary results of the CERCLA data gaps investigation at IR Site 28, inclusion of the new well (28SW5) into the Basewide Groundwater Monitoring Program is recommended. Continued monitoring of dissolved metals at Site 28 is recommended, with the following revisions for the 2007–2008 program year:

- Existing wells 28SW01 and 28SW02, where metals have rarely exceeded MCLs or AWQC levels, should be sampled once a year;
- Existing wells 28SW03 and 28SW04, where several metals commonly exceed MCLs and AWQC levels, but have been monitored since 2004, should be monitored twice a year;
- New well 28SW05, which has been sampled only once since it was installed, should be monitored on a quarterly basis.

12.0 REFERENCES

Bechtel 2004, *Final Remedial Investigation Report, IR Site 28, TODD Shipyards, Volume 1 of 3, Alameda Point, Alameda, CA*, September.

E&E, 1983, *Initial Assessment Study, Naval Air Station, Alameda, California*, prepared for Navy Assessment and Control of Installation Pollutants and the Naval Energy and Environmental Support Activity, April.

IT Corporation (IT), 2001, *The Environmental Baseline Survey, Alameda Point, Alameda, California,* June 29.

Innovative Technical Solutions, Inc. (ITSI), 2004, *Addendum 02 to the Sampling and Analysis Plan, Basewide Groundwater Monitoring, Alameda Point, Alameda, California,* October.

ITSI, 2005, Alameda *Basewide Groundwater Monitoring Report, Spring 2005, Alameda Point, Alameda, California,* October.

ITSI, 2006, *Technical Memorandum, Basewide Monitoring Program Evaluation and Recommendations, Alameda Point, Alameda, California*, October.

ITSI, 2007, *Alameda Basewide Groundwater Monitoring Report, Spring 2006, Alameda Point, Alameda, California*, February 2007.

Neptune, IT, and ENVIRON, 2002, *Operable Unit 5 Remedial Investigation Report, Alameda Point, Alameda, California, prepared for the Department of the Navy, Richland, Washington,* December.

Shaw, 2004, *Final Work Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California,* March 4.

Shaw, 2004, Appendix D, *Annual Alameda Basewide Report, Spring 2004, Appendix D – Evaluation of 8 rounds of Alameda NAS Radiological GW analyses obtained from June 2002- April 2004.*

Shaw, 2006, Fall 2004 *Tidal Study for Installation Restoration Sites 1 and 2, Alameda Point, Alameda, California*, February 10.

State of California, San Francisco Bay Regional Water Quality Control Board (RWQCB), 1999, *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, CA.* June.

RWQCB 2000a, *Groundwater Basin Plan Amendments.*

RWQCB 2000b, *Board Resolution* 00-024.

Tetra Tech, 1999a, *Final OU-1 Remedial Investigation Report, Alameda Point, Alameda, California*, March 23.

Tetra Tech, 1999b, *Draft OU-2 Remedial Investigation Report, Alameda Point, Alameda, California*, June 29.

Tetra Tech, 2000, *Determination of the Beneficial Uses of Groundwater at Alameda Point, Alameda, California, Final*, July.

Tetra Tech, 2001a, *Data Gap Investigation at Corrective Action Areas and Other Locations at Alameda Point, Summary Report, Alameda Point, Alameda, California*, March.

Tetra Tech, 2001b, *Summary of Background Concentrations in Soil and Groundwater, Alameda Point, Alameda, California.*

Tetra Tech, 2002, *Data Gap Summary Report, Supplemental Remedial Investigation, Data Sampling for Operable Units 1 and 2, Alameda Point, Alameda, California*, July.

Tetra Tech, 2004, *Final Remedial Investigation Report, Operable Unit 1, Sites 6, 7, 8, and 16, Alameda Point*, November 18, 2004.

U.S. Environmental Protection Agency (EPA), 1988. *Guidelines for Groundwater Classification under the EPA Groundwater Protection Strategy, Washington, D.C*, June.

APPENDIX A

ANALYTICAL DATA FOR SPRING 2007 WITH DATA QUALIFIERS AND REASON CODE DEFINITIONS, LISTED BY IR SITE

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX A – ANALYTICAL DATA FOR SPRING 2007 WITH DATA QUALIFIERS AND REASON CODE DEFINITIONS, LISTED BY IR SITE

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DATA WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

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APPENDIX B

DATA QUALITY SUMMARY REPORT, SPRING 2007

DATA QUALITY SUMMARY REPORT SPRING 2007

ALAMEDA POINT
ALAMEDA, CALIFORNIA

DRAFT

Prepared For:

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July 2007

Innovative Technical Solutions, Inc.

DATA QUALITY SUMMARY REPORT SPRING 2007

ALAMEDA POINT
ALAMEDA, CALIFORNIA

DRAFT

Contract Number N68711-02-D-8213
Contract Task Order 0016

Prepared by: _____ Date: _____
Paul West
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Reviewed by: _____ Date: _____
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Approved by: _____ Date: _____
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ITSI Program Manager

Innovative Technical Solutions, Inc.

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A Final Laboratory Data Reports for Summer 2006, Fall 2006, Winter 2006, and Spring 2007 (unvalidated)

B Data Validation Reports, Spring 2007

C Field Duplicate Results Above Reporting Limits

D Nonconformance Report

ACRONYMS AND ABBREVIATIONS

°C	Degrees Celsius
ASTM	American Society for Testing and Materials
ATL	Air Toxics, Ltd.
C&T	Curtis and Tompkins Laboratory
EPA	United States Environmental Protection Agency
GEL	General Engineering Laboratories, LLC
ICP	inductively coupled plasma
IR	Installation Restoration
ITSI	Innovative Technical Solutions, Inc.
LCS	laboratory control sample
LDC	Laboratory Data Consultants, Inc.
µg/l	micrograms per liter
mg/l	milligrams per liter
MDL	method detection limit
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
NEDD	Navy Environmental Data Deliverable
NELAP	National Environmental Laboratory Accreditation Program
NFESC	Naval Facilites Engineering Services Center
pCi/L	picocuries per liter
PDF	portable document format
QC	quality control
RPD	relative percent difference
RL	reporting limit
SDG	sample delivery group
Shaw	Shaw Environmental Inc.
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
VOCs	volatile organic compounds

1.0 ANALYTICAL PROGRAM

This Data Quality Summary Report encompasses the Summer 2006, Fall 2006, Winter 2006, and Spring 2007 sampling events of the Groundwater Monitoring Program at Alameda Point (formerly Naval Air Station Alameda) in Alameda, California. Including water and soil gas sample matrices, ITSI collected and reported a total of 47334 results for normal samples and field duplicates. A subset of this data is reported in summary tables in the Annual Report.

Groundwater sample analyses were conducted in accordance with the requirements specified in the following guidance documents:

- *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods* (U.S. Environmental Protection Agency [EPA], 1996)
- *Methods for Chemical Analysis of Water and Wastes* (EPA, 1983)
- *Standard Operating Procedures R. S. Kerr Research Laboratory of the EPA* (EPA, 1994a)
- *Compendium of Methods for Determination of Toxic Organic Compounds in Ambient Air* (EPA, 1999a)
- *Annual Book of ASTM (American Society for Testing and Materials) International Standards* (ASTM, 1997)
- *Final Sampling and Analysis Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda* (Shaw Environmental, Inc. (Shaw), 2004)
- *Sampling and Analysis Plan Addendum, (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, Draft of March 15, 2004* (Shaw, 2004)
- *Addendum 02 to the Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, October 2004* (Innovative Technical Solutions, Incorporated (ITSI), 2004)

Curtis and Tompkins, Incorporated (C&T), Berkeley, California was selected as the primary analytical laboratory. C&T subcontracted the radiological testing to General Engineering

Laboratories, LLC (GEL), Charleston, South Carolina, and the air analysis to Air Toxics, Ltd. (ATL), Folsom, California. C&T, GEL, and ATL have successfully completed the Naval Facilities Engineering Service Center's (NFESC) Laboratory Evaluation Program. In addition, C&T, GEL, and ATL participate in and are certified under the National Environmental Laboratory Accreditation Program (NELAP). ITSI conducted a verification audit of C&T in October 2004. The sample login and receipt area of C&T was also audited during the Spring 2006 sampling event. These audits did not identify any significant data quality issues.

All hardcopy and electronic results from GEL and ATL were forwarded to C&T. Hardcopy reports were scanned and included with the appropriate C&T reports. All original, unvalidated C&T reports were submitted to ITSI as Portable Document Format (PDF) files and are included as Attachment A for reference. Electronic results were entered into C&T's computer data system and merged with the appropriate laboratory electronic data deliverable for that specific sample delivery group (SDG).

Synectics, Inc., Sacramento, California (Synectics) provided three services for ITSI regarding data quality. First, ITSI field personnel entered work order information to Synectics' database. Upon completion, the C&T laboratory electronic data deliverables were uploaded directly by C&T personnel to Synectics' database. Synectics database is configured to perform a consistency check between the laboratory data and the requested work order information. Any discrepancies (e.g., non-matching sample identifiers) were resolved prior to approval of the work order or SDG. Second, Synectics' performed an automated data review on the results. This review was supplemented with minimal manual review to meet the requirements of an EPA Level III data validation review. Third, Synectics produced an electronic deliverable in the Navy Environmental Data Deliverable (NEDD) format for the Summer 2006, Fall 2006, and Winter 2006 events. The electronic deliverable for the Spring 2007 event is in process and will be submitted shortly.

Laboratory Data Consultants, Inc. (LDC) of Carlsbad, California performed independent EPA Level IV data validation on 20 percent of the results. LDC was given access (with appropriate controls) to Synectics' database and applied qualifiers directly to the appropriate results. Analytical data were reviewed and validated for all test method results according to the procedures specified in the following documents, as applicable:

- *Final Sampling and Analysis Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda* (Shaw Environmental, Inc. (Shaw), 2004)

- *Sampling and Analysis Plan Addendum, (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, Draft of March 15, 2004* (Shaw, 2004)
- *Addendum 02 to the Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, October 2004 (Innovative Technical Solutions, Incorporated* (ITSI), 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* (EPA, 1999)
- *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, (EPA, 2002)
- *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods* (EPA, 1996)

The data qualification flag definitions and reason codes are presented in Section 1.1. The following analytical quality control (QC) elements were evaluated and used as the basis for qualifying data:

- Holding time and temperature compliance
- Initial calibration verification
- Continuing calibration verification
- Method blank contamination
- Field blank contamination
- Laboratory control sample (LCS) accuracy and precision
- Matrix spike (MS) accuracy and precision
- Internal standard recovery
- Interference check sample recovery (EPA Method 6010B only)
- Inductively Coupled Plasma (ICP) Serial Dilution (EPA Method 6010B only)
- Surrogate recovery
- Sample duplicate precision
- Instrument tuning and system performance (Level IV)
- Analyte identification and quantitation (Level IV)

1.1 QUALIFIED RESULTS

The following qualifiers have been applied as appropriate to the data. Between the Fall/Winter 2004 sampling event and the Spring 2005 sampling event, the Navy directed ITSI to change the format of the final electronic deliverable from the Navy Electronic Data Transfer Standard (NEDTS) version 2.01 to the Navy Electronic Data Deliverable (NEDD). These results are submitted in the NEDD version 1.3 format. The final electronic data deliverable and data tables contain the following data qualifiers as appropriate:

- *J qualifier* denotes that the analyte was positively identified, but the quantitation is estimated. The analyte was positively identified but the associated numerical value is an estimated value above the method detection limit (MDL) and below the reporting limit (RL). Alternatively, the data validation process may identify that the numerical value should be estimated.
- *U qualifier* denotes the analyte was analyzed for, but not detected. The associated numerical value is at or below the RL.
- *UJ qualifier* denotes the associated quantification limit may be inaccurate or imprecise.
- *R qualifier* denotes the data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.

A qualifier may be applied to a result for more than one reason. For example, an analysis which exceeded the allowed holding time and was qualified as estimated, 'J', may also be qualified due to an identified problem with the instrument calibration. In the discussion below, only the initial reason for the qualification will be discussed.

Within the NEDTS v. 2.01 and NEDD v. 1.3 database structures, the final validation code is listed in the VALIDATION CODE field. The QUALIFIER field contains qualifiers that may have been applied by the laboratory. Many of these qualifiers have specific definitions to a particular laboratory, and they are assigned an appropriate allowed VALIDATION CODE (U, J, UJ and R).

Within the NEDD database structure, the final validation code is listed in the FINAL QUALIFIER field. The LAB QUALIFIER field contains qualifiers that may have been applied by the laboratory. The VALIDATOR QUALIFIER contains the qualifiers that were applied by the data validators. The appropriate qualifier from the laboratory or the data validator is mapped to one of the allowed values (U, J, UJ and R) and entered in the FINAL QUALIFIER field.

The following subsections discuss the quality of the data and reasons for qualification. Significant data quality issues (i.e., those resulting in data rejection) are discussed in Section 2.0.

1.2 ESTIMATED LOW CONCENTRATIONS

C&T and its subcontract laboratories were tasked to report detected analyte concentrations to the MDL and not detected concentrations to the RL. Detected concentrations between the RL and the MDL are qualified as estimated, 'J', because of the increased quantitative uncertainty in the result as the concentration of the analyte approaches the MDL. A total of 3085 results were qualified as estimated due to concentrations measured between the MDL and the RL.

Qualification of results as estimated due to low concentrations of analytes is expected due to the sensitivity of the analytical methodology used and the low concentrations of many analytes. Qualification for low concentrations is not due to method performance or analytical program issues. Results remain usable with qualification, and so data usability is not affected.

1.3 SAMPLE SHIPMENT AND STORAGE

As samples were collected in the field, preservation by cooling was immediately initiated. C&T arranged for a courier service during each day of sampling. Samples were rapidly shipped directly to C&T. In certain cases, insufficient time had elapsed for thermal equilibrium to be reached and the samples to have been cooled to the specified temperature range of 2 to 6 degrees Celsius (°C). In these cases, samples are still considered to have been shipped under proper storage conditions. No other samples were received at temperatures outside the specified temperature range.

Upon receipt by the laboratory, samples were immediately entered into the laboratory's data system, and were stored under refrigeration. No results were qualified due to improper sample shipment and storage for this event.

1.4 HOLDING TIME

Holding times were exceeded for analysis of 6 samples for extractable petroleum hydrocarbons by EPA Method 8015B, 2 samples for volatile organic analysis by EPA Method 8260B, and 2 samples for nitrate/nitrite by EPA Method 300.0. A total of 114 results were qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ'. The 2 results for nitrate/nitrite by EPA Method 300.0 were rejected.

At all times, samples remained properly stored at the laboratory in temperature-monitored refrigerators. If a holding time was exceeded, it was only by a minimal amount of time. Results remain usable with qualification; therefore data usability is not affected. Rejected results are discussed further in Section 2.

1.5 LABORATORY AND FIELD BLANK CONTAMINATION

Low levels of detected analytes were detected in some laboratory and field blanks due to ambient contamination. The sensitivity of modern analytical methodology increases the likelihood of detection of low-level contamination. Sources of low-level contamination are difficult to identify, but common sources include dust, volatile organic compounds gradually released from manufactured plastics, and building materials. A total of 1694 results were qualified as not detected, 'U', or not detected at an estimated detection limit, 'UJ'.

Of these results, only one result for copper (Cu) in the sample from well M08-06 from Fall 2006, was detected, and this result was rejected due to an identified matrix effect. All other concentrations of detected analytes in the blanks are not sufficiently high for any associated sample results to be rejected. The identified low-level contamination is not sufficient to affect the data usability.

1.6 CALIBRATION

Instrument calibration is performed in accordance with the specified EPA methodology. The acceptance of the calibration is determined by the measurement of a method-specific statistical parameter. Because of the natural variability during the analytical process, an instrument may have a calibration that is outside the acceptance limit. The accuracy of a result associated with a calibration that is later determined to be outside the acceptance limit will have more uncertainty Depending upon the magnitude of the uncertainty, a result may be qualified. A total of 580 results were qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to identified problems with the calibration. One not detected result for benzoic acid in the sample from well M06-07 sampled during Fall 2006 was rejected.

On a statistical basis, given the number and types of analytes that are measured in this program, some of the calibrations will occur outside the method acceptance parameters. The number of results qualified is consistent with what is expected, and these results may still be used with qualification. The single rejected not-detected data point for benzoic acid does not affect general project decisions. Data usability is not significantly affected.

1.7 SURROGATES AND INTERNAL STANDARDS

Surrogate compounds and internal standards are control compounds used to monitor the analytical process as specified in EPA methodology. The evaluation of the surrogate recovery and internal standard response may indicate that the accuracy of the result is not within the acceptable method-specific parameters. Depending upon the magnitude of the uncertainty, a

result may be qualified. A total of 224 results have been qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to identified problems with the surrogate recovery. No results were rejected for surrogate recoveries.

The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected due to surrogate recovery or internal standard recovery problems. Data usability is not significantly affected.

1.8 SERIAL DILUTION

For metals analysis, a serial dilution test is used to determine if interferences are present during the analysis. This test is specified in EPA methodology. The measurement of a metal in an undiluted sample is compared to the measurement of the same metal in a diluted sample (and multiplied by the proper dilution factor). The two results are compared, and if uncertainty is shown then results in associated samples may be qualified. A serial dilution test may be evaluated only when a measurable amount of analyte is present. A total of 57 results were qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to results from a serial dilution test that were outside control limits.

The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected, and data usability is not significantly affected.

1.9 LABORATORY CONTROL SAMPLES

Laboratory control samples are synthetic samples prepared and analyzed in the same procedure as normal field samples. Laboratory control samples are used to further monitor the analytical process.

On a statistical basis, given the number and types of analytes that are measured in this program, some of the measurements of the laboratory control samples will occur outside acceptance parameters. A total of 175 results have been qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to the laboratory control sample results.

The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected due to laboratory control sample results; therefore data usability is not significantly affected.

1.10 MATRIX SPIKE SAMPLES

One in 20 samples were identified for matrix spike analysis, representing approximately a 5 percent frequency. Matrix spike samples are field samples to which analytes of interest have been added to monitor the analytical process. A total of 108 results have been qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ'.

A total of 6 results for copper for samples from wells M14-01, M101-A (and its field duplicate), M08-03, M08-06, and MW16-05 collected in Fall 2006 were rejected due to identified matrix effects. The sample from M08-06 was used as the matrix spike sample, and exhibited a low bias in the matrix spike and the matrix spike duplicate sample. The matrix effect seems to have been limited only to that analytical batch, because an additional 34 matrix spike samples for copper were within control limits.

The number of results qualified is consistent with what is expected, and these results may still be used with qualification. The impact on project decisions due to the rejection of the 6 copper results is minimal. Data usability is not significantly affected.

1.11 DUPLICATE SAMPLES

The laboratory, as part of its internal quality control checks, also analyzes and reports laboratory replicates. A total of 23 results have been qualified as estimated, 'J', due to the evaluation of duplicate results. The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected due to duplicate results, therefore data usability is not significantly affected.

2.0 REJECTED RESULTS

The data review and validation process identified a total of 104 results that were rejected due to analytical performance issues. One result for benzoic acid was rejected due to calibration problems during the analysis. Six results for copper were rejected due to matrix interferences. Two results for nitrate and nitrite were rejected due to exceedence of the holding time. Finally, 95 results were rejected for radiological parameters during the automated data review.

Benzoic acid is not generally considered an analyte of concern at this site. Although it is included on the analyte list, the Sampling and Analysis Plan does not specify a maximum contaminant level (MCL). Loss of this result therefore is negligible for project decisions.

The matrix effect for copper showed that results exhibited a low bias. The highest concentration of the rejected results is 85 µg/l in well M08-03. All other rejected results had values lower than 10 µg/l. The MCL is 1300 µg/l for copper. No result approached this value. An additional 318 results for copper are available for project decisions. Loss of these results do not have a significant impact on project decisions.

The nitrate and nitrite results for sample from well M03-07 were analyzed beyond the method-specified holding time of 48 hours. These samples originally had been scheduled to be analyzed within the holding time and were not detected. The laboratory determined that calibration failure had occurred and could not report these two results. The laboratory notified ITSI, and we decided that the laboratory would reanalyze the samples and if there were any results above the reporting limit, that the well would be resampled for these parameters. Sample reanalysis confirmed the first sample results of ND obtained. Historical results from this well showed two previous detectable nitrate values at 0.02 and 0.04 mg/l. Nitrite had not previously been detected. Loss of these results does not have a significant impact on project decisions.

The rejected radiological results were all analyzed by EPA Method 901.1, gamma emitting isotopes. This is a screening-level multiple-isotope radiological test. All samples were not-detected, and the sum of the reporting limits had met the project-required reporting limits. Only K-40, Bi-214, and Pb-214 had been detected previously using EPA Method 901.1 for this project. None of these analytes are of principal concern. The loss of these results has minimal impact on project decisions.

3.0 FIELD DUPLICATES

One in 10 samples was collected as a field duplicate, and these samples were analyzed for the same parameters as the normal sample. A total of 4096 individual field duplicate results were measured. Of these results, 375 analytes were detected above the reporting limit in both the normal sample and the field duplicate. Field duplicates results were compared only when an analyte is detected above the reporting limit in both samples. The Sampling and Analysis Plan specifies that field duplicate results are in agreement when the relative percent difference (RPD) between the field duplicate result and the normal sample result is less than 50 when the result exceeds five times the reporting limit. 25 results are considered to be in disagreement, representing 6.6 percent of the total field duplicate results with analyte concentrations sufficient for comparison.

With the exception of two results, all results that are in disagreement have a RPD of less than 200. Given the types and number of the analyses in this program, this variation is well within a normal statistical variability. Major differences are discussed below.

Sample M013-C-A6138 and its field duplicate M013-C-A6139 had tritium results of ND and 2280 picocuries per liter, respectively. No cause has been found to explain the variability between these two samples. The field duplicate results indicate that caution should be used for decisions based solely on the tritium results.

Petroleum hydrocarbon as motor oil was not detected in sample D12-01-A6228, but a concentration of 300 µg/l was reported in field duplicate D12-01-A6229. The result in the field duplicate is at the reporting limit of 300 µg/l. In the Spring 2006 sampling event, a similar effect was observed between the sample and its field duplicate with results of 110 J and ND. Well D12-01 accesses the second water-bearing zone at a depth of 71 feet. The depth to water during sampling was approximately 5.3 feet. Although the well stabilization criteria were met, a full casing volume was not pumped prior to sampling. The variability in the results from the motor oil may be due to different concentrations in the water column of the well. The occasional detection of concentrations of motor oil near the reporting limit does not affect the usability of these results for decisions.

Results from all remaining field duplicates were in agreement. A comparison of field duplicates is included as Attachment C.

4.0 NONCONFORMANCES AND OTHER ISSUES

4.1 NCR-001

The laboratory had a failure of condensers during the extraction of samples for TPH-diesel/motor oil (Method 8015B) analysis and semivolatile organics (Method 8270C) analysis. This resulted in the loss of portions of the samples that were being processed. Samples had been collected on March 9, 2007 and were being extracted on March 16, 2007. These analyses both have a 7 day holding time for unpreserved samples. Additional portions of the samples were available, which allowed for re-extraction. While the holding time requirement for these samples would have been met if the original extraction had been successful, re-extraction was outside the holding time.

ITSI allowed the laboratory to extract the samples outside the holding time, recognizing that any results obtained would be qualified as estimated. If concentrations of TPH-diesel or motor oil were detected, the wells would be resampled. Neither TPH-diesel or motor oil was detected in this batch of samples. The incident and the laboratory response are documented in nonconformance report 001 which is included as Attachment D.

4.2 SUBSTITUTED METALS LIST

When the analytical laboratory changed personnel, the group of specific metals to be analyzed and reported was assigned improperly for incoming samples. Field personnel did not detect this error. Field personnel either did not review the laboratory login reports, or did not recognize that the laboratory's abbreviation "Metals-T26" changed from the abbreviation used for previous sampling events (which read "TAL Metals"). "Metals-T26" is the internal laboratory designation that represents the California Title 26 metals, and is a list of 17 metals. The actual analyte list for this project is shown in the Sampling and Analysis Plan as the Federal EPA Target Analyte List of 23 metals, plus molybdenum. The "TAL Metals" grouping includes all of the "Metals-T26" metals plus aluminum, calcium, iron, magnesium, sodium, manganese, and potassium (Al, Ca, Fe, Mg, Na, Mn, and K).

For Spring 2007, the error was caught in time to properly schedule the analyses of the correct metals analytical suite. For Fall 2006, many metals (Ca, Mg, Na, K) are available in the data set and will be resubmitted along with the current NEDD deliverable. Metals of specific interest at Alameda sites (e.g. Cr, Co, Cu) as listed in the site-specific data quality objectives in the Sampling and Analysis Plan are included in both lists, so the use of these results for critical decision making should be minimally affected. The project chemist also met with the laboratory project manager who confirmed that the profile for this project has been corrected.

For future sampling events, ITSI will implement a kickoff meeting (in person or by phone conference) with the laboratory and field personnel and reemphasize the required analytical suites and reporting limits prior to each sampling event. The project chemist will confirm a list of specific analytes and provide this list to the laboratory. The project chemist will specify metals analysis by a single analytical method (Method 6020, with the exception of mercury), and the external database will be configured to notify personnel if gaps in the reported specific metals analysis occur.

4.3 HEXAVALENT CHROMIUM

Hexavalent chromium was identified and reported during the Fall 2006 event in the following samples: 28SW01-C5686, 28SW02-C5688, 28SW03-C5689, M05-08-C5617, M05-08-C5618, M05-09-C5619, and M10-01-C5624. Results had been at or above the reporting limit of 10 µg/l, and remained consistent in the two pairs of normal samples and field duplicates. Results ranged from a low of 10 µg/l to a high of 50 µg/l. Samples for hexavalent chromium were analyzed by EPA Method 7196A.

Total chromium results for the same samples using independent analytical methods showed values ranging from not-detected to a maximum of 8.7 µg/l. Several samples for total chromium were analyzed by EPA Method 6010A and several samples were analyzed for total chromium by EPA Method 6020A. Although a reporting limit of 10 µg/l was used for total chromium results, the laboratory method detection limit was less than 1 µg/l.

The data validation and data review process showed that the laboratory's controls for EPA Method 7196A, 6010A and 6020A were all within the method performance specifications. The

hexavalent chromium results analyzed by EPA Method 7196A therefore, showed a significant positive bias relative to both EPA Method 6010A and EPA Method 6020A.

The original reporting limit for EPA Method 7196A was 500 µg/l when the method was promulgated in 1992. The chemical reagents and instrumentation used for EPA Method 7196A have remained effectively unchanged since that time. In response to client and regulator demand, laboratories have reduced the reporting limit to 10 µg/l. While laboratories have demonstrated a method detection limit of less than 10 µg/l in accordance with the procedures specified in 40 CFR 136 Subpart B, method performance in interference-free laboratory control samples often does not correlate to method performance in actual samples because of interferences present in real samples. This effect is not due to improper laboratory performance or procedures, rather it is due to an inherent limitation of EPA Method 7196A.

Although the hexavalent chromium results meet method performance, data review and validation criteria, ITSI recommends the removal of hexavalent chromium from the existing data set when the reported value of hexavalent chromium by EPA Method 7196A exceeds the independently determined total chromium reported value. ITSI also recommends a review of past analytical data previously submitted to the Navy's NEDD database and similar removal of EPA Method 7196A hexavalent chromium results when greater than the total chromium result.

As an alternative, the EPA promulgated Method 6800 in 1998, which analyzes elements by isotope dilution in ICP-MS. A variation within this method allows the specific species of the analyte to be determined. ITSI recommends using this analytical method when accurate determination of concentrations for hexavalent chromium are required below the original EPA Method 7196A reporting limit of 500 µg/l.

5.0 CONCLUSIONS AND DATA USABILITY

The analytical methods used for the Groundwater Monitoring Program were selected to provide quality data sufficient to meet data quality objectives, including comparability to historical data, continuity of the Groundwater Monitoring Program and the project sensitivity requirements. The use of EPA Method 6800 for hexavalent chromium is recommended for future sampling events due to identified method bias.

5.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Field QC samples for this project included field duplicates, trip blanks, temperature blanks, and matrix spike/matrix spike duplicate (MS/MSD) samples. Field duplicate samples were collected in the field at a frequency of 10 percent for each of the thirteen IR sites, and analyzed for the same analytes as their corresponding original samples. Trip blanks were placed in coolers used for wells requiring VOC analysis and analyzed for VOCs as well. Temperature blanks were placed in coolers for cooler temperature checks. MS/MSD samples were collected at a frequency of approximately one for every 20 groundwater field samples.

5.2 COMPLETENESS SUMMARY

Of a total of 47334 results (including normal samples and field duplicates), 4580 are qualified as estimated or not detected at an estimated reporting limit. Note that qualification may be due to multiple reasons. Estimated results can still be used with qualification. A total of 104 results were rejected. The total completeness is therefore 99.7 percent. Field duplicate reproducibility exceeds 94.4 percent for all detected results above the reporting limit.

5.3 FINAL CONCLUSION

The data generated in support of the Spring 2007 Alameda Groundwater monitoring project meet the project objectives.

6.0 REFERENCES

Shaw Environmental, 2004a, *Final Sampling and Analysis Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda*

Shaw Environmental, 2004b, *Sampling and Analysis Plan Addendum, (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, Draft of March 15, 2004*

Innovative Technical Solutions, Inc.(ITSI), 2004, *Addendum 02 to the Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California*, October

U. S. Environmental Protection Agency (EPA), 1999, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*

EPA, 2002, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*

EPA, 1996, *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods*

ATTACHMENTS

ATTACHMENT A

LABORATORY DATA REPORTS

SPRING 2007

(SUMMER 2006, FALL 2006, AND WINTER 2006 PREVIOUSLY SUBMITTED)

(UNVALIDATED ORIGINALS)

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT A – LABORATORY DATA REPORTS SPRING 2007

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DATA WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

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ALAMEDA POINT
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APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT A1 IS CONTAINED IN ELECTRONIC FORMAT

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APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT A2 IS CONTAINED IN ELECTRONIC FORMAT

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APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

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APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT A4 IS CONTAINED IN ELECTRONIC FORMAT

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N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT A5 IS CONTAINED IN ELECTRONIC FORMAT

TO VIEW THE DATA, CONTACT:

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TELEPHONE: (619) 532-3676

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT A6 IS CONTAINED IN ELECTRONIC FORMAT

TO VIEW THE DATA, CONTACT:

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ATTACHMENT B
DATA VALIDATION REPORTS

Spring 2007 Data Validation Reports

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX B – DRAFT DATA QUALITY SUMMARY REPORT, SPRING 2007

ATTACHMENT B – DATA VALIDATION REPORTS

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DATA WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

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ATTACHMENT C

FIELD DUPLICATE RESULTS ABOVE REPORTING LIMITS

SPRING 2007

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Chloride	3000		3100		3	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Sulfate (as SO4)	440		450		2	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Alkalinity, Total (as CaCO3)	220		240		8	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Alkalinity, Bicarbonate (as CaCO3)	220		240		8	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Methane	6		6		0	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Arsenic	2.1	J	10		130	Disagreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	1,1-Dichloroethane	0.5		0.5		0	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	cis-1,2-Dichloroethylene	3.8		4		5	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Tetrachloroethene (PCE)	1.8		1.7		5	Agreement
15-MW2	15-MW2-A6305	15-MW2-A6306	4/4/07	Trichloroethene (TCE)	6.8		7.1		4	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Total Dissolved Solids	19900		20300		1	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Arsenic	6.9		5.6		20	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Aluminum	140		6.6	J	181	Disagreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Barium	270		280		3	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Iron	850	J	860		1	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Potassium	190		190		0	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Manganese	590		600		1	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Vanadium	21	J	20		4	Agreement
28SW02	28SW02-C5687	28SW02-C5688	10/3/06	Chromium, Hexavalent	ND		20		NC	See text
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Total Dissolved Solids	21700		22300		2	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Aluminum	220		100		75	Disagreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Arsenic	6.5		6.2		4	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Barium	130		130		0	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Copper	95		88		7	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Iron	660		420		44	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Manganese	9.1		8.5		6	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Nickel	110		96		13	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Antimony	1.3		1.2		8	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Vanadium	78		72		8	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Zinc	180		180		0	Agreement
28SW03	28SW03-D6007	28SW03-D6008	12/19/06	Mercury	0.31		0.36		14	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Total Dissolved Solids	200		190		5	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Chloride	10		9.9		1	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Sulfate (as SO4)	18		18		0	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Alkalinity, Total (as CaCO3)	140		140		0	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Alkalinity, Bicarbonate (as CaCO3)	140		140		0	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Methane	4	J	5		22	Agreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Zinc	11	J	21		62	Disagreement
372-MW1	372-MW1-A6178	372-MW1-A6179	3/7/07	Chloroform	3.2		3.5		8	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	beta, Gross	8.07		5.43		39	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Radium	0.43	J	0.693		46	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Arsenic	5		5.2		3	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Barium	240		250		4	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Calcium	33		32		3	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Iron	440		500		12	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Potassium	11		10		9	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Magnesium	10		10		0	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Manganese	150		150		0	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Sodium	190		200	J	5	Agreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Uranium 233 and Uranium 234	0.723		0.669		7	Agreement
442-MW1	442-MW1-C5528	442-MW1-C5529	10/10/06	Uranium 238	0.557		0.598		7	Agreement
D03-02	D03-02-C5607	D03-02-C5608	9/26/06	Barium	42	J	43		2	Agreement
D03-02	D03-02-C5607	D03-02-C5608	9/26/06	Cobalt	7.5		8		6	Agreement
D03-02	D03-02-C5607	D03-02-C5608	9/26/06	Iron	2400		2500		4	Agreement
D03-02	D03-02-C5607	D03-02-C5608	9/26/06	cis-1,2-Dichloroethylene	1.1		1		9	Agreement
D03-02	D03-02-C5607	D03-02-C5608	9/26/06	Trichloroethene (TCE)	0.5		0.5		0	Agreement
D05-03	D05-03-C5627	D05-03-C5628	10/2/06	Petroleum Hydrocarbons (as Motor Oil)	1100		1400		24	Agreement
D05-03	D05-03-C5627	D05-03-C5628	10/2/06	Petroleum Hydrocarbons (as Diesel)	1500		2000		28	Agreement
D05-03	D05-03-C5627	D05-03-C5628	10/2/06	Petroleum Hydrocarbons (as Jet Fuel)	540		680		22	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Total Dissolved Solids	35200		35700		1	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Chloride	18000		18000		0	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Sulfate (as SO4)	5000		5100		1	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Alkalinity, Total (as CaCO3)	940		1000		6	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Alkalinity, Bicarbonate (as CaCO3)	940		1000		6	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Methane	30		31		3	Agreement
D11-01	D11-01-A6188	D11-01-A6189	3/8/07	Nickel	25		27		7	Agreement
D12-01	D12-01-A6228	D12-01-A6229	3/26/07	Chloride	22000		23000		4	Agreement
D12-01	D12-01-A6228	D12-01-A6229	3/26/07	Sulfate (as SO4)	2500		2600		3	Agreement
D12-01	D12-01-A6228	D12-01-A6229	3/26/07	Alkalinity, Total (as CaCO3)	860		880		2	Agreement
D12-01	D12-01-A6228	D12-01-A6229	3/26/07	Alkalinity, Bicarbonate (as CaCO3)	860		880		2	Agreement
D12-01	D12-01-A6228	D12-01-A6229	3/26/07	Petroleum Hydrocarbons (as Motor Oil)	ND		300		NC	See Text
D12-01	D12-01-A6228	D12-01-A6229	3/26/07	Petroleum Hydrocarbons (as Diesel)	63		47	J	29	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Chloride	6500		6500		0	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Nitrate (as N)	0.96		1		4	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Sulfate (as SO4)	770		770		0	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Alkalinity, Total (as CaCO3)	200		200		0	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Alkalinity, Bicarbonate (as CaCO3)	200		200		0	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Methane	6		7		15	Agreement
D19-01	D19-01-A6265	D19-01-A6266	3/28/07	Nickel	60		60		0	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	beta, Gross	5.95		8.86		39	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Barium	52		57		9	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Calcium	84		87		3	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Potassium	8		8.4		4	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Magnesium	13		14		7	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Manganese	160		170		6	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Sodium	23		24		4	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Uranium 233 and Uranium 234	0.394		0.472		18	Agreement
M006-A	M006-A-A6108	M006-A-A6109	3/21/07	Uranium 238	0.311		0.188	J	49	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	beta, Gross	130		287		75	Disagreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Potassium 40	96.8	J	120		21	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Radium	1.83		1.88		2	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Tritium	ND		2280		NC	Disagreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Calcium	620		670		7	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Magnesium	1100		1300		16	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Manganese	9700		10000		3	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Sodium	6700		6500		3	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Barium	47		45		4	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Cobalt	5.6		5.1		9	Agreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Potassium	97		92		5	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Uranium 233 and Uranium 234	7.07		6.68		5	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Uranium 235 and Uranium 236	0.231		0.379		48	Agreement
M013-C	M013-C-A6138	M013-C-A6139	3/9/07	Uranium 238	5.49		5.01		9	Agreement
M017-A	M017-A-C5537	M017-A-C5538	10/10/06	beta, Gross	144		136		5	Agreement
M017-A	M017-A-C5537	M017-A-C5538	10/10/06	Potassium 40	134		113		17	Agreement
M017-A	M017-A-C5537	M017-A-C5538	10/10/06	Barium	53		57		7	Agreement
M017-A	M017-A-C5537	M017-A-C5538	10/10/06	Potassium	160		170		6	Agreement
M017-A	M017-A-C5537	M017-A-C5538	10/10/06	Uranium 233 and Uranium 234	3.16		3.79		18	Agreement
M017-A	M017-A-C5537	M017-A-C5538	10/10/06	Uranium 238	2.97		3.04		2	Agreement
M020-B	M020-B-C5567	M020-B-C5568	10/11/06	beta, Gross	64.2		85.5		28	Agreement
M020-B	M020-B-C5567	M020-B-C5568	10/11/06	Radium	0.534		0.546		2	Agreement
M020-B	M020-B-C5567	M020-B-C5568	10/11/06	Manganese	770		780		1	Agreement
M020-B	M020-B-C5567	M020-B-C5568	10/11/06	Barium	130		130		0	Agreement
M020-B	M020-B-C5567	M020-B-C5568	10/11/06	Iron	5800		5900		1	Agreement
M020-B	M020-B-C5567	M020-B-C5568	10/11/06	Potassium	78		79		1	Agreement
M022-A	M022-A-C5547	M022-A-C5548	10/12/06	gamma-Chlordane	24		9		90	Disagreement
M022-A	M022-A-C5547	M022-A-C5548	10/12/06	Carbon Disulfide	0.5	J	0.5		0	Agreement
M022-A	M022-A-C5547	M022-A-C5548	10/12/06	1,4-Dichlorobenzene	1.7		1.9		11	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	beta, Gross	240		129		60	Disagreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Potassium 40	222		196		12	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Radium	6.77		6.52		3	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Radium 228	8.33		8.25		0	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Arsenic	5.6		6.5		14	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Barium	530		540		1	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Calcium	390		260		40	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Cobalt	16		17		6	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Iron	18000		18000		0	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Potassium	180		200		10	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Magnesium	660		890		29	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Manganese	4700		4700		0	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Sodium	4700		6900		37	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Uranium 233 and Uranium 234	2.69		1.78		40	Agreement
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Uranium 235 and Uranium 236	0.248		ND		NC	Reported value nea
M022-E	M022-E-A6158	M022-E-A6159	3/15/07	Uranium 238	2.06		1.89		8	Agreement
M027-A	M027-A-C5508	M027-A-C5509	10/4/06	beta, Gross	23.4		29.9		24	Agreement
M027-A	M027-A-C5508	M027-A-C5509	10/4/06	cis-1,2-Dichloroethylene	1.5		1.3		14	Agreement
M027-A	M027-A-C5508	M027-A-C5509	10/4/06	Uranium 233 and Uranium 234	0.308		0.299		2	Agreement
M027-A	M027-A-C5508	M027-A-C5509	10/4/06	Uranium 238	ND		0.32		NC	Reported value nea
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Total Dissolved Solids	19400		19100		1	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Chloride	11000		12000		8	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Sulfate (as SO4)	1400		1400		0	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Alkalinity, Total (as CaCO3)	410		410		0	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Alkalinity, Bicarbonate (as CaCO3)	410		410		0	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Sulfide	0.05		0.04		22	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	beta, Gross	88.9		117		27	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Potassium 40	128		86.9	J	38	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Radium	1.47		1.18		21	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Methane	5		6		18	Agreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Calcium	690		720		4	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Magnesium	880		940		6	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Manganese	6100		6300		3	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Sodium	5200		5500		5	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Arsenic	7.7		7.5		2	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Barium	150		160		6	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Iron	5100		5300		3	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Potassium	100		100		0	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Uranium 233 and Uranium 234	0.323		0.263		20	Agreement
M028-C	M028-C-A6118	M028-C-A6119	3/21/07	Uranium 238	0.167	J	0.228		30	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Petroleum Hydrocarbons (as Gasoline)	2200		2100		4	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Arsenic	54		57		5	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Antimony	0.93	J	1.1		16	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Petroleum Hydrocarbons (as Motor Oil)	940		680		32	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Petroleum Hydrocarbons (as Diesel)	19000		24000		23	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Petroleum Hydrocarbons (as Jet Fuel)	23000		28000		19	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	tert-Butyl Alcohol	870		770		12	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Benzene	140		130		7	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Ethylbenzene	0.9		1	J	10	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Isopropylbenzene (Cumene)	7		7		0	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Naphthalene	4.7		4.8	J	2	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	n-Propylbenzene	15		15		0	Agreement
M03-04	M03-04-C5577	M03-04-C5578	9/27/06	Tetrachloroethene (PCE)	0.9		ND		NC	Reported value nea
M03-14	M03-14-C5587	M03-14-C5588	9/27/06	Bromomethane	0.7	J	1		35	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	beta, Gross	38.8		26		39	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	STRONTIUM TOTAL	4.52	J	7.21		45	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Arsenic	8.4		7.7		8	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Barium	95		97		2	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Calcium	56		56		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Iron	4100		4400		7	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Potassium	16		16		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Magnesium	14		14		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Manganese	540		550		1	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Sodium	50		51		1	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	n-Butylbenzene	ND		1.1		NC	Reported value nea
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	sec-Butylbenzene	1.8		1.9		5	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Benzene	21		22		4	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Toluene	0.7		0.7		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Chlorobenzene	9.7		9.7		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	p-Cymene (p-Isopropyltoluene)	0.9	J	0.9		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	1,2-Dichlorobenzene	2.4		2.5		4	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	1,3-Dichlorobenzene	0.5	J	0.5		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	1,4-Dichlorobenzene	1.9		2		5	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	cis-1,2-Dichloroethylene	0.9		0.9		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Ethylbenzene	4.6		4.1		11	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Isopropylbenzene (Cumene)	3.1		2.9		6	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	n-Propylbenzene	2.9		2.7		7	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	1,2,4-Trimethylbenzene	6.7		6.3		6	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	1,3,5-Trimethylbenzene	1.2		1.2		0	Agreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	Vinyl Chloride	1.7		1.7		0	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	m,p-Xylene	14		13		7	Agreement
M034-A	M034-A-A6128	M034-A-A6129	3/22/07	o-Xylene	1.6		1.5		6	Agreement
M035-A	M035-A-C5518	M035-A-C5519	10/5/06	beta, Gross	6.92		5.91		15	Agreement
M035-A	M035-A-C5518	M035-A-C5519	10/5/06	cis-1,2-Dichloroethylene	4.1		4.4		7	Agreement
M035-A	M035-A-C5518	M035-A-C5519	10/5/06	trans-1,2-Dichloroethene	2.8		3.2		13	Agreement
M035-A	M035-A-C5518	M035-A-C5519	10/5/06	Trichloroethene (TCE)	3.9		3.6		7	Agreement
M035-A	M035-A-C5518	M035-A-C5519	10/5/06	Vinyl Chloride	0.6		1		50	Disagreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	beta, Gross	209		181		14	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Bismuth 214	ND		11.5		NC	Reported value nea
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Potassium 40	132		145		9	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Lead 214	ND		11.6		NC	Reported value nea
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Radium	2.34		2.83		18	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Magnesium	620		620		0	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Sodium	6300		6700		6	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Arsenic	7.3		8.2		11	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Barium	800		870		8	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Calcium	120		120		0	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Cobalt	3.2		3.5		8	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Iron	20000		22000		9	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Potassium	160		170		6	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Manganese	270		290		7	Agreement
M036-E	M036-E-A6168	M036-E-A6169	3/12/07	Zinc	27		21		25	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	beta, Gross	ND		138		NC	Elevated MDL of 77
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Potassium 40	222		250		11	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Radium	1.87		1.49		22	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Arsenic	7.1		5.2		30	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Barium	1900		1700		11	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Calcium	230	J	200		13	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Cobalt	4.4		3.4		25	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Iron	39000		28000		32	Agreement
M037-E	M037-E-C5557	M037-E-C5558	10/12/06	Manganese	410		320		24	Agreement
M05-08	M05-08-C5617	M05-08-C5618	10/3/06	Arsenic	36		37		2	Agreement
M05-08	M05-08-C5617	M05-08-C5618	10/3/06	Chromium, Hexavalent	50		30		50	Disagreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Chloride	99		120		19	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Nitrate (as N)	0.43		0.3		35	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Sulfate (as SO4)	25		25		0	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Alkalinity, Total (as CaCO3)	180		190		5	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Alkalinity, Bicarbonate (as CaCO3)	180		190		5	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Methane	1400		1500		6	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Barium	67		64		4	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Calcium	36		35		2	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Potassium	10		17		51	Disagreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Magnesium	15		15		0	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Manganese	89		84		5	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Sodium	93		86		7	Agreement
M06-06	M06-06-C5637	M06-06-C5638	10/4/06	1,1-Dichloroethane	0.5		0.5		0	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	cis-1,2-Dichloroethylene	2.6		2.5		3	Agreement
M06-06	M06-06-C5637	M06-06-C5638	10/4/06	cis-1,2-Dichloroethylene	4.1		4.2		2	Agreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	trans-1,2-Dichloroethene	0.5		0.6		18	Agreement
M06-06	M06-06-C5637	M06-06-C5638	10/4/06	trans-1,2-Dichloroethene	1.1		1.1		0	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Tetrachloroethene (PCE)	0.6		0.7		15	Agreement
M06-06	M06-06-C5637	M06-06-C5638	10/4/06	Trichloroethene (TCE)	1.9		1.8		5	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	Trichloroethene (TCE)	1.5		1.8		18	Agreement
M06-06	M06-06-C5637	M06-06-C5638	10/4/06	Vinyl Chloride	0.5		0.5		0	Agreement
M06-06	M06-06-A6248	M06-06-A6249	3/27/07	1,4-Dioxane (P-Dioxane)	1.1		1.5		30	Agreement
M06-06	M06-06-C5637	M06-06-C5638	10/4/06	1,4-Dioxane (P-Dioxane)	1.7		1.7		0	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Methane	7900		6500		19	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Chloride	36		38		5	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Sulfate (as SO4)	17		17		0	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Alkalinity, Total (as CaCO3)	260		260		0	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Alkalinity, Bicarbonate (as CaCO3)	260		260		0	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Sulfide	0.86		0.85		1	Agreement
M08-03	M08-03-A6255	M08-03-A6256	3/27/07	Mercury	0.23		ND		NC	Reported value nea
M10-01	M10-01-A6238	M10-01-A6239	3/27/07	Chloride	75		72		4	Agreement
M10-01	M10-01-A6238	M10-01-A6239	3/27/07	Nitrate (as N)	0.21		0.18		15	Agreement
M10-01	M10-01-A6238	M10-01-A6239	3/27/07	Sulfate (as SO4)	20		19		5	Agreement
M10-01	M10-01-A6238	M10-01-A6239	3/27/07	Alkalinity, Total (as CaCO3)	200		200		0	Agreement
M10-01	M10-01-A6238	M10-01-A6239	3/27/07	Alkalinity, Bicarbonate (as CaCO3)	200		200		0	Agreement
M10-01	M10-01-A6238	M10-01-A6239	3/27/07	Trichloroethene (TCE)	0.7		0.5		33	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Petroleum Hydrocarbons (as Gasoline)	120		110		8	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Arsenic	16		16		0	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Zinc	64		110		52	Disagreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Petroleum Hydrocarbons (as Jet Fuel)	76		66		14	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	sec-Butylbenzene	1.3		1.3		0	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	1,1-Dichloroethane	80		78		2	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	cis-1,2-Dichloroethylene	11		12		8	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	trans-1,2-Dichloroethene	0.9	J	1		10	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Isopropylbenzene (Cumene)	1.5		1.6		6	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Trichloroethene (TCE)	1.1		1.1		0	Agreement
M101-A	M101-A-C5657	M101-A-C5658	10/5/06	Vinyl Chloride	22		22		0	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Total Dissolved Solids	4920		4070		18	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Chloride	2600		2600		0	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Nitrate (as N)	0.42		0.39		7	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Sulfate (as SO4)	300		290		3	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Alkalinity, Total (as CaCO3)	310		290		6	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Alkalinity, Bicarbonate (as CaCO3)	310		290		6	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Methane	59		54		8	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Zinc	23		23		0	Agreement
M11-05	M11-05-A6208	M11-05-A6209	3/12/07	Petroleum Hydrocarbons (as Diesel)	38	J	53		32	Agreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Arsenic	6		5.3		12	Agreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Barium	160		72		75	Disagreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Calcium	44		26		51	Disagreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Cobalt	1.7		1.8		5	Agreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Iron	3500		1300		91	Disagreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Potassium	28		13		73	Disagreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Magnesium	67		22		101	Disagreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Manganese	360		300		18	Agreement
M25-04	M25-04-C5667	M25-04-C5668	10/13/06	Sodium	550	J	140		118	Disagreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
M25-08	M25-08-A6295	M25-08-A6296	4/2/07	Acenaphthene	1.5		1.6		6	Agreement
M25-08	M25-08-A6295	M25-08-A6296	4/2/07	Fluoranthene	0.14	J	0.21		40	Agreement
M25-08	M25-08-A6295	M25-08-A6296	4/2/07	Pyrene	0.1		0.15		40	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Acetone	8.8		16		58	Disagreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Toluene	1.3		1.3		0	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	n-Hexane	0.78		0.92		16	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	n-Heptane	0.69		0.72		4	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Carbon Disulfide	2.2		1.8		20	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Chlorobenzene	7.1		2.9		84	Disagreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	1,4-Dichlorobenzene	5.6		3.8		38	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Ethylbenzene	4.9		5.2		5	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Dichlorodifluoromethane	0.9		0.96		6	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	2-Butanone (MEK)	1.9		2.6		31	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	Naphthalene	ND		6.8		NC	Reported value nea
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	m,p-Xylene	27		30		10	Agreement
MG2-01-S	MG2-01-S	MG2-01-S(D)	11/10/06	o-Xylene	9.5		11		14	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Methane	0.0077		0.0069		10	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Carbon Dioxide	20		20		0	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Nitrogen	79		79		0	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Oxygen	1.2		1.3		8	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Acetone	45		74		48	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Benzene	2.9		3.3		12	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Toluene	50		52		3	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	n-Hexane	4.4		4.3		2	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	n-Heptane	7.8		8.6		9	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Chlorobenzene	34		38		11	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Cyclohexane	5.3		6		12	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	1,4-Dichlorobenzene	5.3		5.9		10	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	1,2-Dichlorotetrafluoroethane	2.6		2.6		0	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Ethylbenzene	3.5		0.83		123	Disagreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Trichlorofluoromethane	0.82		0.81		1	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Dichlorodifluoromethane	4.8		4.9		2	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Isopropylbenzene (Cumene)	1.4		1.4		0	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	2-Butanone (MEK)	7		5.8		18	Agreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	m,p-Xylene	16		2.2		151	Disagreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	o-Xylene	5.4		0.94		140	Disagreement
MG2-03-D	MG2-03-D-SV518	MG2-03-D-SV519	4/11/07	Petroleum Hydrocarbons (as Gasoline)	3.2		3.5		8	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Acetone	11		18		48	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Toluene	1.7		1.8		5	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	n-Hexane	0.88		1.1		22	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	n-Heptane	1.3		0.87		39	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Carbon Disulfide	ND		1.2		NC	Reported value nea
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Chlorobenzene	8.9		3.4		89	Disagreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	1,4-Dichlorobenzene	5.9		3.9		40	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Ethylbenzene	5.5		5.4		1	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Ethanol	2.7		2.9		7	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Trichlorofluoromethane	2.6		2.3		12	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	2-Butanone (MEK)	2		2.8		33	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Naphthalene	ND		7.5		NC	Reported value nea

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	Tetrachloroethene (PCE)	0.75		0.81		7	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	m,p-Xylene	30		30		0	Agreement
MG2-05-D	MG2-05-D	MG2-05-D(D)	11/10/06	o-Xylene	11		10		9	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Chloride	13		13		0	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Nitrate (as N)	1.2		1.2		0	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Sulfate (as SO4)	41		41		0	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Alkalinity, Total (as CaCO3)	250		240		4	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Alkalinity, Bicarbonate (as CaCO3)	250		240		4	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Methane	50		54		7	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	Arsenic	7.1		7.3		2	Agreement
MW16-06	MW16-06-A6285	MW16-06-A6286	4/3/07	cis-1,2-Dichloroethylene	0.9		0.9		0	Agreement
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	Arsenic	5.9	J	6		1	Agreement
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	Zinc	6.1	J	56		160	Disagreement
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	1,1-Dichloroethane	1.9		1.8		5	Agreement
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	1,2-Dichlorobenzene	1.1		1.1		0	Agreement
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	1,1-Dichloroethene	15		14		6	Agreement
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	n-Propylbenzene	ND		1		NC	Reported value nea
MW360-2	MW360-2-C5597	MW360-2-C5598	9/28/06	Trichloroethene (TCE)	9.6		8.7		9	Agreement
MW360-3	MW360-3-A6218	MW360-3-A6219	3/13/07	Total Dissolved Solids	880		870		1	Agreement
MW360-3	MW360-3-A6218	MW360-3-A6219	3/13/07	Chloride	57		59		3	Agreement
MW360-3	MW360-3-A6218	MW360-3-A6219	3/13/07	Nitrate (as N)	0.09		0.09		0	Agreement
MW360-3	MW360-3-A6218	MW360-3-A6219	3/13/07	Sulfate (as SO4)	63		66		4	Agreement
MW360-3	MW360-3-A6218	MW360-3-A6219	3/13/07	Arsenic	7.7		8.1		5	Agreement
MW360-3	MW360-3-A6218	MW360-3-A6219	3/13/07	Nickel	20		20		0	Agreement
MW410-4	MW410-4-A6275	MW410-4-A6276	3/29/07	Chloride	42		42		0	Agreement
MW410-4	MW410-4-A6275	MW410-4-A6276	3/29/07	Nitrate (as N)	1.5		1.5		0	Agreement
MW410-4	MW410-4-A6275	MW410-4-A6276	3/29/07	Sulfate (as SO4)	23		23		0	Agreement
MW410-4	MW410-4-A6275	MW410-4-A6276	3/29/07	Alkalinity, Total (as CaCO3)	170		170		0	Agreement
MW410-4	MW410-4-A6275	MW410-4-A6276	3/29/07	Alkalinity, Bicarbonate (as CaCO3)	170		170		0	Agreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Carbon Dioxide	5		4.6		8	Agreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Nitrogen	78		78		0	Agreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Oxygen	17		17		0	Agreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Acetone	160		170		6	Agreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Toluene	ND		1.3		NC	Reported value nea
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	n-Hexane	ND		1.4		NC	Reported value nea
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Carbon Disulfide	0.91		1.1		18	Agreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Ethylbenzene	1.6		4.7		98	Disagreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Ethanol	ND		3.6		NC	Reported value nea
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	2-Butanone (MEK)	4.7		9.8		70	Disagreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	m,p-Xylene	7.3		23		103	Disagreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	o-Xylene	2.6		7.6		98	Disagreement
OU5-SG-17D	OU5-SG17-D-SV528	OU5-SG17-D-SV529	4/10/07	Petroleum Hydrocarbons (as Gasoline)	0.41		0.5		19	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Barium	1700		1700		0	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Cobalt	1.9		1.6		17	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Iron	290		340		15	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Manganese	500		490		2	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Vanadium	13		14		7	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Benzene	2.4		2.4		0	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Toluene	0.9		0.9		0	Agreement

FIELD DUPLICATE RESULTS

Spring 2007 Alameda Groundwater Monitoring Report, Alameda Point, California

Location	Sample Number	Duplicate Sample Number	Sampling Date	Analyte	Original Sample Result*	Qualifier	Field Duplicate Result*	Qualifier2	RPD (%)	Evaluation
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Ethylbenzene	4.8		4.9		2	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Isopropyl ether	1.8		1.8		0	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	m,p-Xylene	2		2.5		8	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	o-Xylene	3		3.3		9	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Acenaphthene	23		26		12	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Acenaphthylene	15		15		0	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Anthracene	1.8		1.8		0	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Benzo(a)anthracene	0.11		0.11		0	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Fluoranthene	4.4		4.6		4	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Phenanthrene	4.9		5.1		3	Agreement
PW-12	PW-12-C5677	PW-12-C5678	10/16/06	Pyrene	3.6		3.7		2	Agreement

RPD Relative percent difference
NA Not applicable
NC Not calculated. Both values must be above the reporting limit.

J Estimated
ND Not detected

* Units are in either milligrams per liter (mg/l), micrograms per liter (µg/l), or picocuries per liter (piC/l) as appropriate

ATTACHMENT D

NONCONFORMANCE REPORT

SPRING 2007

Innovative Technical Solutions, Inc.

NONCONFORMANCE REPORT

NCR Number: 001	Project Name: Alameda Groundwater Monitoring, Spring 2007 Event	Project No.:02125.1100	Date:03/19/2007

PART A : Nonconformance Description (include specific requirement violated):

The laboratory had a failure of condensers during the extraction of samples for TPH-diesel/motor oil (Method 8015B) analysis and semivolatile organics (Method 8270C) analysis. This resulted in the loss of the portion of the samples that were being processed. Samples had been collected on 03/09/2007 and were being extracted on 03/16/2007. These analyses both have a 7 day holding time for unpreserved samples. Additional portions of sample are available, which can allow for re-extraction. While the holding time requirement for these samples would have been met if the original extraction were successful, re-extraction will be outside the holding time.

Samples affected for Method 8015B analysis are:

M03-10-A6195; M03-10-A6196 (field duplicate); M013-C-A6138; M013-C-A6139 (field duplicate); M014-A-A6140; M014-B-A6141; and M03-12-A6197.

Samples affected for Method 8270C analysis are:

M013-C-A6138; M013-C-A6139 (field duplicate); M014-A-A6140; and M014-B-A6141.

Results from previous sampling events did not show analytes above the reporting limit. A total of five previous results were reported as below the reporting limit and estimated values.

Identified by: Curtis and Tompkins, Ltd. Date: 03/19/2007

Root cause of nonconforming condition:

None. Nonconforming condition caused by unanticipated failure of extraction equipment within the laboratory.

PART B: Corrective Action to be taken (include date when action(s) will be completed:

1.	Inform ITSI Project Manager (A. Acharya), ITSI Program Chemist (R. Flynn), ITSI Program Manager (J. Hess), ITSI Quality Assurance Manager (J. Schollard).	Completed 03/19/2006
2.	Inform Navy RPM	
3.	Instruct laboratory to re-extract samples and reanalyze. Any positive results will be qualified as estimated.	Completed 03/19/2006

Performed by: P. West, A. Acharya

PART C: Action to be taken to preclude recurrence:

1.	No action can be taken on the part of ITSI. Laboratory corrective action report is attached to this NCR.	Laboratory notified	03/19/2007
		Performed by:	P. West

PART D:

Acceptance by: _____ Date: _____
Project Manager

Acceptance by: _____ Date: _____
Quality Assurance Officer

Corrective Action(s) completed by:	Verification completed by:

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

March 20, 2007

Paul West
Innovative Technical Solutions, Inc.
2730 Shadelands Drive
Suite 100
Walnut Creek, CA 94598

Subject: Corrective Action for Missed Holding Times (SDG 193329)

Dear Mr. West;

The extraction holding time was exceeded for the TPH/Diesel and BNA/8270 analyses of seven water samples that had been submitted on March 9 from the Alameda TO-103 project.

The initial extraction of these samples was begun on Friday, March 16, the last day of the holding time. During the extraction a crack developed on the interior side of the liquid-liquid condensors, allowing the cooling water to slowly drain into the extractor body, eventually emptying the entire contents of the recirculator into that liquid-liquid, thus allowing the solvent to escape from the liquid-liquid extractors and all of the samples to dry out. This problem was discovered the following morning and the samples were immediately set up for re-extraction, however the holding time had expired.

This is the first time that C&T has encountered this particular problem, over the fifteen years that this type of apparatus has been in use. The extraction chemists are aware of the seriousness of this type of incident and routinely inspect the liquid-liquid extractors and condensors for cracks or chips that may impede the proper working of the apparatus. Curtis & Tompkins is planning to remodel our extraction lab and expand our liquid extraction capacity, to allow additional time to perform corrective actions within the sample holding times; this expansion should take place during 2007.

Please accept our sincere apologies for this incident and feel free to call me at (510)-204-2220 if you have any questions or would like to discuss this issue.

Sincerely,

Teresa Morrison
Quality Assurance Director

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX C – SAMPLE COLLECTION FIELD FORMS AND CHAIN-OF-CUSTODY DOCUMENTATION SUMMER 2006 THROUGH SPRING 2007

FINAL
SPRING 2007 ALAMEDA BASEWIDE GROUNDWATER MONITORING REPORT

DATED 01 APRIL 2008

N00236.003028
ALAMEDA POINT
SSIC NO. 5090.3.A.

APPENDIX C – SAMPLE COLLECTION FIELD FORMS AND CHAIN-OF-CUSTODY DOCUMENTATION SUMMER THROUGH SPRING 2007

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DATA WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676