SFCTA Contract Number 06/07-29

SOUTH ACCESS TO THE GOLDEN GATE BRIDGE

DOYLE DRIVE

DOYLE DRIVE REPLACEMENT PROJECT

FINAL ENVIRONMENTAL GROUNDWATER INVESTIGATION

September 2009

Prepared By:

BASELINE Environmental Consulting

DRAFT

Our ref 131558/FRG
File ref 4-01
Date September 22, 2009

SOUTH ACCESS TO THE GOLDEN GATE BRIDGE
DOYLE DRIVE

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Mr. Hardeep S. Takhar
Water Quality Program Manager
Office of Environmental Engineering
Division of Environmental Planning & Engineering
Caltrans District 4
111 Grand Avenue, MS 8F
Oakland, CA 94612

Re: Final Environmental Groundwater Investigation
Doyle Drive Replacement Project
San Francisco, California

Dear Mr. Takhar:

The Arup PB Joint Venture (JV) is pleased to present ten (10) copies of the Final Environmental Groundwater Investigation Report on the subject project. The report was prepared by BASELINE Environmental Consulting, who is engaged under an agreement with the JV to provide environmental groundwater investigation services. This report replaces the BASELINE Environmental Consulting Environmental Groundwater Investigation, dated June 2009.

The report describes and summarizes investigation objectives; groundwater sampling handling procedures and laboratory quality assurance used for the bluff-area piezometers; data from Presidio monitoring wells; groundwater data evaluation methodology; groundwater investigation results; and limitations.

The report contains the following appendices that are presented on a CD-ROM.

- Appendix A – Pre-September 2009 Groundwater Sampling
- Appendix B – Bluff Piezometers – September 2009 Groundwater Sampling Forms
- Appendix C – Bluff Piezometers – September 2009 Laboratory Reports
- Appendix D – Bluff Piezometers – September 2009 LDC Data Validation Report
- Appendix E – Excerpts of Sources of Screening Levels and Thresholds

Should you have any questions regarding this report, please contact Cheri Page of BASELINE at (707) 762-5233.

Yours sincerely

Francis R. Greguras, P.E., G.E.
G.E. No. 356
Arup PB JV

Distribution: Hardeep S. Takhar, Caltrans – 10 copies
Cheri Page, BASELINE Environmental Consulting – 3 copies
John Karn, Arup PB JV Project Manager – 1 copy
Sabine van der Sluis, Parsons Brinckerhoff – 1 copy
Project Files

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FINAL ENVIRONMENTAL GROUNDWATER INVESTIGATION

SEPTEMBER 2009

DOYLE DRIVE REPLACEMENT PROJECT
SAN FRANCISCO, CALIFORNIA

For:

Arup/PB Joint Venture
San Francisco, California

Y0239-04.A6.01341.V1

DRAFT

5900 Hollis Street, Suite D • Emeryville, CA 94608 • (510) 420-8686

FINAL ENVIRONMENTAL GROUNDWATER INVESTIGATION

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BASELINE Environmental Consulting
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This *Final Environmental Groundwater Investigation* report, dated 21 September 2009, has been prepared by BASELINE Environmental Consulting as part of Caltrans contract EA 04-163731. This report replaces the June 2009 report prepared by BASELINE Environmental Consulting entitled *Doyle Drive Replacement Project, Environmental Groundwater Investigation.*

Cheri Page, Geologist
P.G. No. 5288

Yane Nordhav, Principal
P.G. No. 4009

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(in PDF ON CD ROM)

A: Pre-September 2009 Groundwater Sampling
B: Bluff Piezometers - September 2009 Groundwater Sampling Forms
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D: Bluff Piezometers – September 2009 LDC Data Validation Report
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FINAL ENVIRONMENTAL GROUNDWATER INVESTIGATION

DOYLE DRIVE REPLACEMENT PROJECT
San Francisco, California

1 INTRODUCTION

BASELINE Environmental Consulting ("BASELINE"), under subcontract to Arup/PB Joint Venture, has prepared this environmental groundwater investigation report for the proposed Doyle Drive Replacement Project ("DDRP") in San Francisco, California (Figure 1). The San Francisco County Transportation Authority and the State of California Department of Transportation ("Caltrans") propose to upgrade a portion of Doyle Drive within the Presidio to meet current design and safety standards. The DDRP would include excavation below the existing groundwater levels. In some areas, dewatering of these excavations would be required for project constructability and worker safety.

The purpose of this investigation was to pre-characterize groundwater quality so that options for management of dewatering effluent can be determined prior to excavation. The scope of work of this investigation included sampling and analysis of groundwater from seven bluff piezometers (Figure 2) and a review of existing groundwater quality data from 43 Presidio monitoring wells (Figure 3).

2 BACKGROUND

BASELINE collected fourteen grab-groundwater samples from soil borings and four groundwater samples from piezometers within Contract areas 3, 4, and 5 of the DDRP between December 2008 and April 2009 to characterize groundwater quality across the entire project alignment and the cemetery area. A summary of this data is included in Appendix A.

Groundwater sampling of the bluff piezometers was requested by Caltrans in a meeting with the San Francisco Bay Regional Water Quality Control Board ("Water Board") on 27 August 2009. Caltrans approved the sampling of nine bluff piezometers in an email to BASELINE on 31 August 2009. Only seven of the nine bluff piezometers were sampled by BASELINE in September 2009 because two of the piezometers were dry. These sampling activities are described further below in Section 3, *Bluff Piezometers*.

The Presidio Trust maintains a database for environmental groundwater data collected from Presidio monitoring wells. Many of these monitoring wells are periodically sampled as part of ongoing investigations of historic releases of hazardous materials. The Presidio Trust has 43 monitoring wells located in proximity to areas that may be excavated for the DDRP (and therefore in areas where dewatering may be required). The methodology for selecting Presidio data relevant to the DDRP is described further below in Section 4, *Presidio Monitoring Wells*.

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3 BLUFF PIEZOMETERS

3.1 Sampling Activities

On 3 and 4 September 2009, BASELINE measured the water level to the nearest one-hundredth of a foot from the top of the rim and checked for the presence of free-phase product in piezometers BTSB-R1-PZ, BTSB-R3A-PZ-S, BTSB-R3-PZ-D, BTNB-R6A-PZ-S, BTNB-R6-PZ-D, BTNB-R7A-PZ-S, BTNB-R7-PZ-D, RW6-R1-PZ, and RW8-R1-PZ using a dual-phase interface probe. None of the piezometers contained measurable free-phase product. Piezometers BTNB-R6A-PZ-S and RW6-R1-PZ were dry. The probe was decontaminated between measurements from each well by washing with an alconox solution followed by rinsing with deionized water. Water level measurements are summarized in Table 1.

Groundwater samples were collected from the seven piezometers that contained water on 3 and 4 September 2009. In accordance with guidance from the Environmental Protection Agency (EPA, 1996), groundwater samples were collected after water quality indicator parameters stabilized within ± 0.1 for pH, ± 3% for electrical conductivity, and ± 10% for dissolved oxygen for three consecutive readings. Groundwater was purged and sampled using a bladder pump equipped with new disposable polyethylene tubing. Water quality indicator parameters (temperature, pH, dissolved oxygen, oxygen-reduction potential, electrical conductivity, and turbidity) were measured in the field with portable equipment. Piezometers BTSB-R3A-PZ-S and RW8-R1-PZ were pumped dry before water quality indicator parameters could stabilize; therefore, these wells were sampled the following day using a peristaltic pump and new disposable bailer, respectively, after water levels recovered. Water quality indicator parameters and monitoring details for each of the piezometers are provided on groundwater sampling forms included in Appendix B.

Groundwater samples were collected in bottles appropriate for each analysis and supplied by the analytical laboratory. Purge water generated during sampling activities was placed in a properly labeled 55-gallon drum and temporarily stored in the drum storage area at the Presidio.

Immediately following sample collection, the sample bottles were labeled with a project name, date and time of collection, samplers' initials, and unique sample identification and stored in a cooler containing ice. The groundwater samples were submitted to Curtis & Tompkins, Ltd. – a California-certified analytical laboratory – on 3 and 4 September 2009 under chain-of-custody procedures and analyzed for the following:

- Total petroleum hydrocarbons ("TPH") as gasoline by EPA Method 8015B;
- TPH as diesel and motor oil by EPA Method 8015B with Silica Gel Cleanup;
- Volatile organic compounds ("VOCs") by EPA Method 8260B;
- Semi-volatile organic compounds ("SVOCs") by EPA Method 8270C;
- Polychlorinated biphenyls ("PCBs") by EPA Method 8082;
- Dissolved Metals by EPA Methods 6010B and 7470A;

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- Chloride by EPA Method 300.0;
- Dissolved Sulfide by Standard Method 4500S2-D;
- Total Suspended Solids by Standard Method 2540D;
- pH by EPA Method 9040C; and
- Chemical Oxygen Demand Standard Method 5220D.

The laboratory reports for the September 2009 sampling of the bluff piezometers are included in Appendix C. Summary tables of analytical compounds detected above the laboratory reporting limits for the bluff piezometers are presented in Tables 2 through 4.

3.2 Laboratory Quality Assurance

Curtis & Tompkins performed laboratory analyses and quality assurance/quality control procedures in accordance with Presidio Trust's Quality Assurance Project Plan ("QAPP") (Tetra Tech, 2001), with exceptions presented in the Responsibilities and Assumptions Document (BASELINE, 2008). Presidio Trust reviewed the proposed QAPP deviations and did not request changes.

The field sample data were reviewed by Laboratory Data Consultants, Inc. ("LDC") of Sacramento, California for compliance with the Presidio Trust QAPP. Data were reviewed based on the appropriate EPA methods referenced (EPA, 1986), *National Functional Guidelines for Organic Data Review* (EPA, 1999), *National Functional Guidelines for Inorganic Data Review* (EPA, 2004), and the project-specific control limits provided in the QAPP or Presidio-approved variances requested by Curtis & Tompkins. Where specific guidance was not available, the data were evaluated in a conservative manner consistent with industry standards using professional experience.

Data review by LDC concluded that all analytical results for groundwater samples collected by BASELINE in September 2009 were valid, as analytical methods and reporting were consistent with the Presidio Trust QAPP, National Functional Guidelines, or project-specific control limits. LDC's data validation report for the samples collected in September 2009 is attached as Appendix D. Electronic data are also provided on CD in the Presidio Trust electronic data deliverable ("EDD") format with data qualifiers added by LDC (Appendix D).

LDC's data validation report for the groundwater samples collected prior to September 2009 within Contract areas 3 and 4 of the DDRP are presented in Environmental Soil Investigation Reports prepared by BASELINE (Caltrans and Arup/PB Joint Venture, 23 June 2009 and 28 August 2009, respectively). LDC concluded all data within these areas were valid with the exception of EPA Method 8270C results for grab-groundwater sample E092 in the Contract 3 area (Table A5 in Appendix A), due to low surrogate recoveries. A data validation report for the Contract 5 area of the DDRP has not yet been completed.

4 PRESDIO MONITORING WELLS

BASELINE reviewed groundwater quality data from 43 monitoring wells in the Presidio Trust groundwater quality database. The most recent water level measurements for the Presidio monitoring wells are summarized in Table 1. Groundwater analytical results are summarized for dissolved metals, TPH, VOCs, polynuclear aromatic hydrocarbons ("PAHs"), pH, and total dissolved solids (Tables 5 through 9).

Analytical results presented in Tables 5 through 9 are generally limited to the four most recent sampling events since 2003. No pre-2003 data were reported. However, in some cases more than four sampling events are presented when older data included analysis of more relevant compounds.

5 GROUNDWATER DATA EVALUATION METHODOLOGY

Water quality data collected from the bluff piezometers and Presidio monitoring wells were screened against EPA Maximum Contaminant Levels ("MCLs"), Water Board Environmental Screening Levels ("ESLs") for groundwater and marine surface waters, Water Board Basin Plan Water Quality Objectives for marine surface waters, National Pollutant Discharge Elimination System ("NPDES") effluent limitations and trigger compounds, Presidio Trust Cleanup Levels for surface water, freshwater, and salt water, and San Francisco Public Utilities Commission ("SFPUC") batch wastewater discharge requirements, as applicable. The results of the data evaluation are presented, below, in Section 6, *Groundwater Investigation Results*. Excerpts from the sources for the screening levels and thresholds are included in Appendix E.

6 GROUNDWATER INVESTIGATION RESULTS

Analytical results for all the groundwater samples are summarized in Tables 2 through 9. Various screening levels and thresholds, as requested by Caltrans, are also listed in the tables. Concentrations that equal or exceed any of the screening levels or thresholds are shaded in the tables. Only applicable screening levels with relevant values are shown on the tables (e.g., there are no ESLs or MCLs for the miscellaneous parameters sampled, so these are not included in the table). Screening levels and thresholds are partially shaded when at least one sample equaled or exceeded the screening level or threshold.

Some of the bluff piezometer samples were found to contain dissolved metals (Table 2) above one or more of the applicable screening levels. In addition, three of the piezometer samples were outside the screening level range for pH (Table 4). Concentrations of VOCs (Table 3) were reported above the laboratory reporting limits in some bluff piezometer samples, but none exceeded applicable screening levels. None of the bluff piezometer samples contained TPH, SVOCs, PAHs, or PCBs above the laboratory reporting limits and therefore summary tables were not prepared for these compounds. Laboratory reports for all the bluff piezometer samples collected are included in Appendix C.

Some of the Presidio monitoring well samples contained dissolved metals (Table 5), TPH (Table 6), VOCs (Table 7), and PAHs (Table 8) exceeding one or more of the applicable screening levels. In addition, some of the samples were outside the screening level range for pH (Table 9). None of the Presidio monitoring well samples were analyzed for SVOCs.

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7 LIMITATIONS

BASELINE's objective is to perform our work with care, exercising the customary thoroughness and competence of earth science, environmental, and engineering consulting professionals, in accordance with the standard for professional services for a consulting firm at the time these services were provided. It is important to recognize that even the most comprehensive scope of services may fail to detect environmental conditions and potential liability at a particular site. Therefore, BASELINE cannot act as insurers and cannot "certify or underwrite" that a site is free of environmental contamination, and no expressed or implied representation or warranty is included or intended in this report except that the work was performed within the limits prescribed with the customary thoroughness and competence of our profession.

The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration at the project site, analysis of the data, and re-evaluation of the findings, observations, conclusions, and recommendations expressed in the report.

The findings, observations, conclusions, and recommendations expressed by BASELINE in this report are limited by the scope of services and should not be considered an opinion concerning the compliance of any past or current owner or operator of the site with any federal, state, or local law or regulation. No warranty or guarantee, whether expressed or implied is made with respect to the data reported or findings, observations, conclusions, and recommendations expressed in this report.

8 REFERENCES

BASELINE Environmental Consulting ("BASELINE"), 2008, Responsibilities and Assumptions Document - BASELINE, Curtis & Tompkins, and Laboratory Data Consultants, 4 November.

Caltrans and Arup/PB Joint Venture, 2008, Doyle Drive Replacement Project, License to Enter and Conduct Geotechnical Investigations, Exhibit No. 3, Soil and Groundwater Sampling Work Plan, October.

EPA, 1996, Low-Flow (Minimal Drawdown Ground-Water Sampling Procedure), by Robert Puls and Michael Barcelona in Ground Water Issue, EPA/540/S-95/504, April.

Tetra Tech EM, Inc., (Tetra Tech) 2001, Presidio-Wide Quality Assurance Project Plan, Sampling and Analysis Plan, Presidio of San Francisco, San Francisco, California, Revision 1, April.

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FIGURES

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	sf	101,1	9.2/9.8, 6.8/7.1		

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

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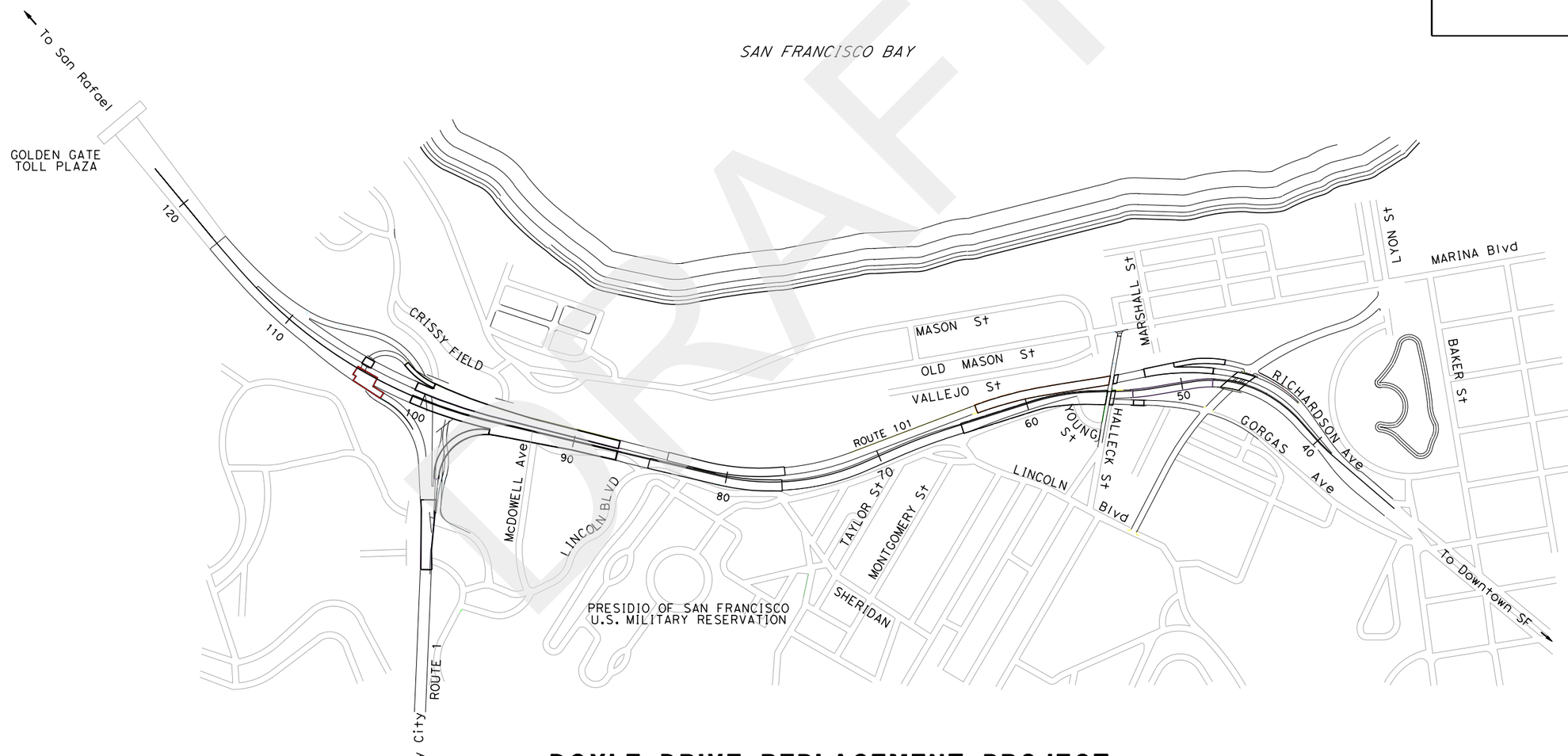
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN THE CITY AND COUNTY OF SAN FRANCISCO AT THE ROUTE 101/1 SEPARATION TO GOLDEN GATE TOLL PLAZA

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION MAP

DOYLE DRIVE REPLACEMENT PROJECT
PROJECT AREA
ENVIRONMENTAL GROUNDWATER INVESTIGATION
FIGURE 1 - September 18, 2009

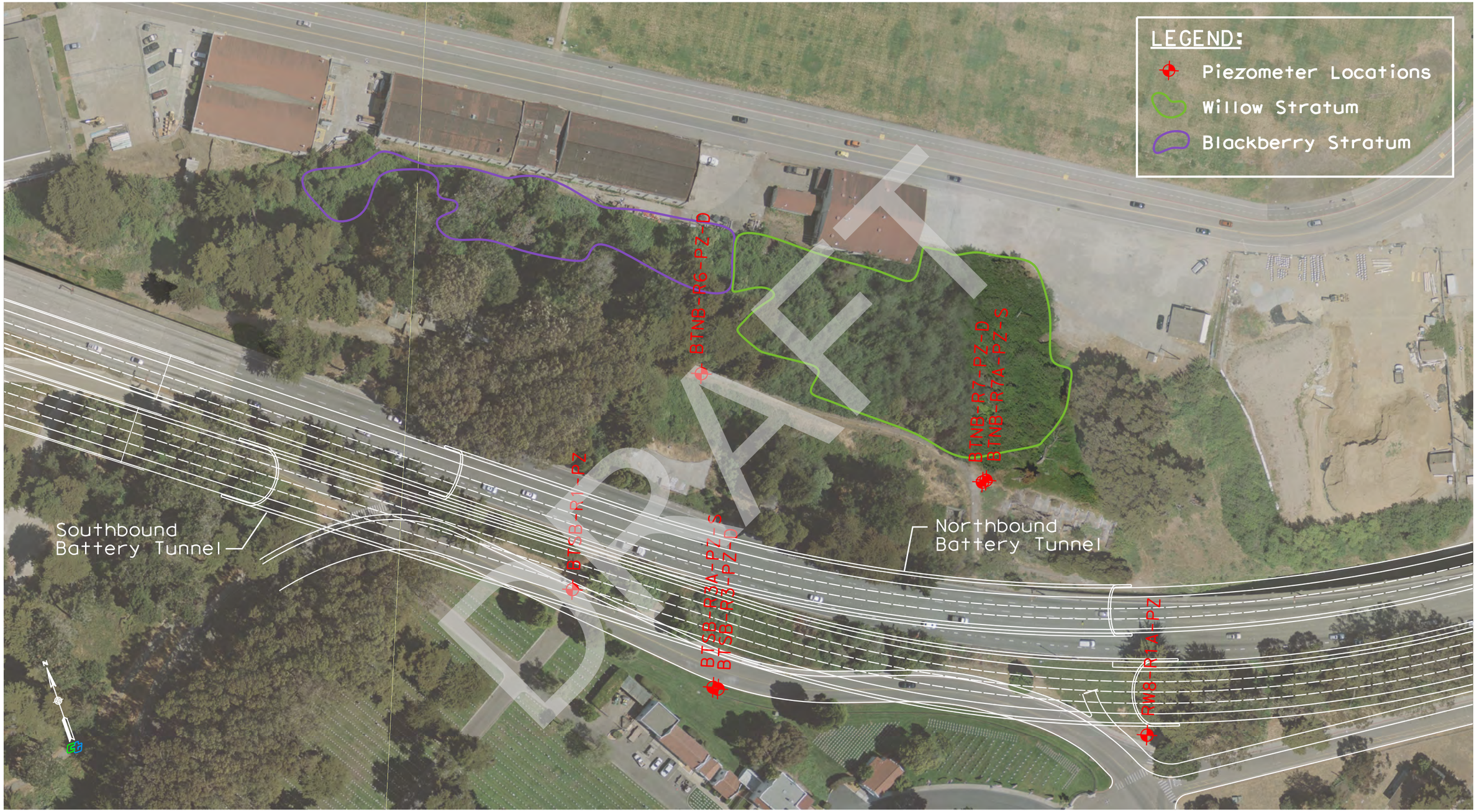
0 250 500 1000
FEET

ARUP PB joint venture

DATE PLOTTED => 9/18/2009
TIME PLOTTED => 12:00:02 PM
LAST REVISION 00-00-00

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

2009-09-18 Environmental Groundwater Invest Report - Fig 1 - Project Area.dgn



DOYLE DRIVE REPLACEMENT PROJECT
Bluff Piezometer Locations
Environmental Groundwater Investigation
FIGURE 2 - September 18, 2009 - Rev.00

0 50 100
FEET

9/18/2009 12:29:18 PM eugene.lam
2009-09-18 Environmental Groundwater Invest Report - Fig 2 - Bluff Piezometer Locations.dgn

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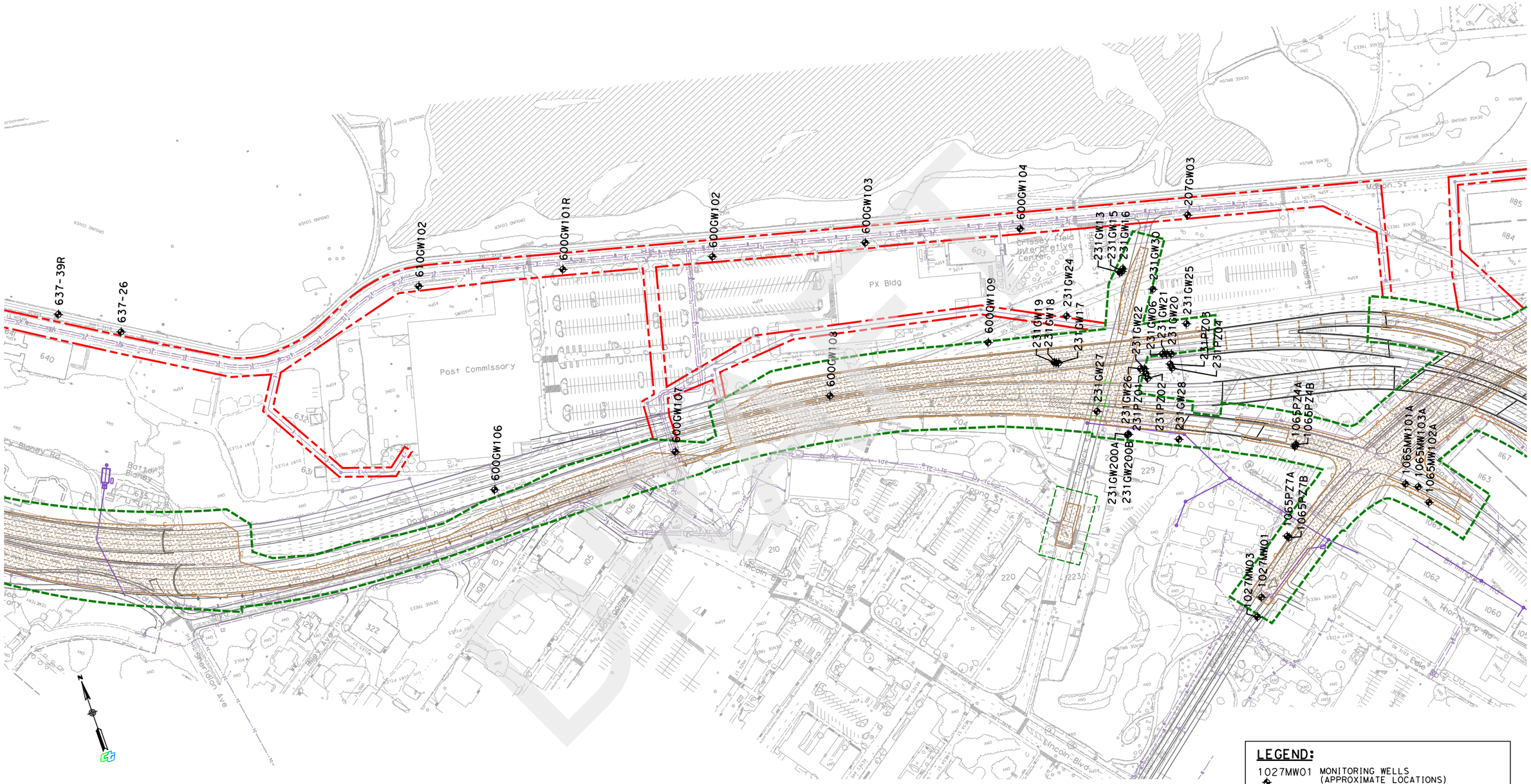

LEGEND:

- 1027MW01 — MONITORING WELLS (APPROXIMATE LOCATIONS)
- PROPOSED UTILITIES
- PROPOSED CUT (Caltrans 02 July 2008)
- 30 FEET OFFSET BOUNDARY FROM CUT LIMIT
- 10 FEET OFFSET BOUNDARY FROM UTILITIES (IN GROUNDWATER)

0 50 100
FEET

ARUP PB joint venture

DOYLE DRIVE REPLACEMENT PROJECT

Presidio Monitoring Wells Locations Environmental Groundwater Investigation

FIGURE 3 - September 18, 2009 - Rev.00

9/18/2009 12:04:05 PM eugene.lam
2009-09-18 Environmental Groundwater Invest Report - Fig 3 - Presidio Monitoring Well Locations.dgn

TABLES

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TABLE 1: Groundwater Level Measurements
Doyle Drive Replacement Project

Piezometer/Monitoring Well ID	Screen Interval (feet bgs)	Date	Piezometer/Monitoring Well Reference	Depth to Water (feet)	Piezometer/Monitoring Well Elevation (NAVD 88)	Groundwater Elevation (NAVD 88)
Bluff Piezometers						
BTNB-R6-PZ-D	60 to 80	9/3/2009	Top of rim	38.00	83.591	45.59
BTNB-R7A-PZ-S	28.5 to 43.5	9/3/2009	Top of rim	34.12	78.961	44.84
BTNB-R7-PZ-D	50 to 70	9/3/2009	Top of rim	35.65	79.353	43.70
BTSB-R1-PZ	23.5 to 33.5	9/3/2009	Top of rim	20.92	101.03	80.11
BTSB-R3A-PZ-S	8 to 18	9/4/2009	Top of rim	14.40	98.049	83.65
BTSB-R3-PZ-D	50 to 70	9/3/2009	Top of rim	18.09	97.9	79.81
RW8-R1A-PZ	25 to 45	9/4/2009	Top of rim	39.55	90.616	51.07
Presidio Monitoring Wells [1]						
1027MW01	7.5 to 17.5	6/8/2009	Top of casing	9.60	22.73	13.13
1027MW03	7.0 to 17.0	6/8/2009	Top of casing	9.78	23.2	13.42
1065MW101A	4.5 to 9.5	6/8/2009	Top of casing	5.61	12.69	7.08
1065MW102A	4.5 to 7.5	6/8/2009	Top of casing	5.31	12.46	7.15
1065MW103A	4.0 to 9.0	6/8/2009	Top of casing	5.24	12.336	7.10
1065PZ4A	6.0 to 11.0	6/8/2009	Top of casing	4.93	13.82	8.89
1065PZ4B	18.0 to 22.0	6/8/2009	Top of casing	2.68	14.08	11.40
1065PZ7A	4.0 to 11.0	6/8/2009	Top of casing	3.64	15.74	12.10
1065PZ7B	17.0 to 24.0	6/8/2009	Top of casing	3.30	15.36	12.06
207GW03	13.0 to 23.0	6/8/2009	Top of casing	4.33	9.61	5.28
231GW06	13.3 to 23.3	6/8/2009	Top of casing	5.15	13.49	8.34
231GW13	33.5 to 43.5	6/8/2009	Top of casing	3.06	13.33	10.27
231GW15	14.5 to 19.5	6/8/2009	Top of casing	4.22	10.63	6.41
231GW16	4.5 to 8.5	6/8/2009	Top of casing	5.59	10.43	4.84
231GW17	25.0 to 35.0	6/8/2009	Top of casing	1.71	12.13	10.42
231GW18	15.0 to 18.3	6/8/2009	Top of casing	2.61	11.93	9.32
231GW19	4.5 to 9.3	6/8/2009	Top of casing	4.43	11.83	7.40
231GW20	30.0 to 40.0	6/8/2009	Top of casing	2.55	12.93	10.38
231GW200A	unknown	6/8/2009	Top of casing	1.58	13.968	12.39
231GW200B	unknown	6/8/2009	Top of casing	4.77	13.888	9.12
231GW21	4.8 to 8.8	6/8/2009	Top of casing	5.50	13.13	7.63
231GW22	3.7 to 9.7	6/8/2009	Top of casing	6.72	15.51	8.79
231GW24	2.7-7.7	6/8/2009	Top of casing	4.51	11.26	6.75
231GW25	3.2 to 10.2	6/8/2009	Top of casing	3.95	12.08	8.13

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TABLE 1: Groundwater Level Measurements
Doyle Drive Replacement Project

Piezometer/Monitoring Well ID	Screen Interval (feet bgs)	Date	Piezometer/Monitoring Well Reference	Depth to Water (feet)	Piezometer/Monitoring Well Elevation (NAVD 88)	Groundwater Elevation (NAVD 88)
231GW26	13.7 to 23.7	6/8/2009	Top of casing	7.36	15.76	8.40
231GW27	18.7 to 25.7	6/8/2009	Top of casing	10.76	19.95	9.19
231GW28	7.2 to 11.2	6/8/2009	Top of casing	3.92	11.66	7.74
231GW30	4.2 to 9.2	6/8/2009	Top of casing	5.41	12.31	6.90
231PZ01	2.0 to 10.0	6/8/2009	Top of casing	6.21	15.1	8.89
231PZ02	2.0 to 9.0	6/8/2009	Top of casing	5.90	14.76	8.86
231PZ03	2.1 to 9.1	6/8/2009	Top of casing	5.26	13.58	8.32
231PZ04	2.3 to 9.3	6/8/2009	Top of casing	4.91	13.23	8.32
600GW101R	3.0 to 7.0	6/9/2008	Top of casing	3.81	9.62	5.81
600GW102	3.0 to 7.0	6/9/2008	Top of casing	4.14	9.73	5.59
600GW103	3.0 to 6.5	6/9/2008	Top of casing	3.47	9.94	6.47
600GW104	3.0 to 7.0	6/9/2008	Top of casing	3.73	10.11	6.38
600GW106	3.0 to 8.0	6/9/2008	Top of casing	4.83	15.67	10.84
600GW107	3.0 to 8.0	6/9/2008	Top of casing	4.97	16.39	11.42
600GW108	3.0 to 8.0	6/9/2008	Top of casing	5.59	11.92	6.33
600GW109	3.0 to 8.0	6/9/2008	Top of casing	4.60	11.3	6.70
610GW102	3.0 to 7.0	6/9/2008	Top of casing	3.90	9.92	6.02
637-26	3.5 to 6.0	3/8/2004	Top of casing	3.33	10.61	7.28
637-39R	3.0 to 6.0	3/8/2004	Top of casing	3.64	9.88	6.24

Notes:
Bluff piezometer and Presidio monitoring well locations are shown on Figures 2 and 3, respectively.
[1] The most recent water levels measurements are presented for the Presidio monitoring wells, based on data provided by Treadwell & Rollo, Inc. on behalf of the Presidio Trust.

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TABLE 2: Dissolved Metal Concentrations in Groundwater (mg/L)
Bluff Piezometers, Doyle Drive Replacement Project

Piezometer ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
BTNB-R6-PZ-D	9/3/2009	<0.001	<0.001	**0.038**	<0.001	<0.001	**0.058**	<0.001	<0.001	<0.001	<0.0002	<0.001	**0.0019**	<0.001	<0.001	<0.001	**0.0011**	**0.02**
BTNB-R7A-PZ-S	9/3/2009	<0.001	<0.001	**0.059**	<0.001	<0.001	**0.019**	<0.001	<0.001	<0.001	<0.0002	<0.001	**0.0097**	<0.001	<0.001	<0.001	**0.006**	**0.019**
BTNB-R7-PZ-D	9/3/2009	<0.001	**0.0031**	**0.019**	<0.001	<0.001	**0.036**	<0.001	**0.0022**	<0.001	<0.0002	**0.0016**	**0.0061**	<0.001	<0.001	<0.001	**0.0021**	**0.037**
BTSB-R1-PZ	9/3/2009	<0.001	<0.001	**0.082**	<0.001	<0.001	<0.001	**0.002**	**0.0012**	<0.001	<0.0002	<0.001	**0.006**	<0.001	<0.001	<0.001	<0.001	**0.029**
BTSB-R3A-PZ-S	9/4/2009	<0.001	**0.0018**	**0.049**	<0.001	<0.001	**0.0029**	<0.001	**0.0013**	<0.001	<0.0002	<0.001	**0.0033**	<0.001	<0.001	<0.001	**0.0037**	**0.019**
BTSB-R3-PZ-D	9/3/2009	<0.001	<0.001	**0.18**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	**0.0012**	**0.0018**	<0.001	<0.001	<0.001	**0.0019**	**0.03**
RW8-R1-PZ	9/4/2009	<0.001	<0.001	**0.018**	<0.001	<0.001	**0.029**	<0.001	<0.001	<0.001	<0.0002	<0.001	**0.0016**	<0.001	<0.001	<0.001	**0.0041**	**0.02**
MCLs for Drinking Water[1,2]		NV	0.01	1	0.004	0.005	**0.05**	NV	1.3	0.015	0.002	NV	0.1	0.05	NV	0.002	NV	NV
ESLs for Groundwater[3]		0.006	0.036	1	0.00053	0.00025	**0.05**	0.003	0.0031	0.0025	0.000025	0.035	0.0082	0.005	0.00019	0.002	0.015	0.081
ESLs for Marine Surface Water[4]		NV	**0.00014**	1	0.00053	0.0093	0.18	0.003	0.0031	0.0056	0.000025	0.24	0.0082	0.071	0.00019	0.004	0.019	0.081
WQOs for Marine Surface Water[5]		NV	0.036	NV	NV	0.0093	**0.05**	NV	0.0031	0.0081	0.000025	NV	0.0082	0.071	0.0019	NV	NV	0.081
NPDES Trigger Compounds[6,7]		NV	0.01	NV	0.001	0.00007	**0.011**	NV	0.0031	0.002	0.000025	NV	0.0082	0.005	0.0019	0.0001	NV	**0.035**
Presidio Trust Surface Water Cleanup Levels[8]		0.014	0.15	NV	NV	0.0011	0.18	NV	0.009	0.0025	0.000012	NV	0.052	0.005	0.0034	0.0017	NV	0.12
Presidio Trust Freshwater Cleanup Levels[8]		NV	0.15	NV	NV	0.0011	0.18	NV	0.009	0.0025	0.000012	NV	0.052	0.005	0.0034	NV	NV	0.12
Presidio Trust Salt Water Cleanup Levels[8]		NV	0.036	NV	NV	0.0093	**0.05**	NV	0.0031	0.0081	0.000025	NV	0.0082	0.071	0.0019	NV	NV	0.081
SFPUC Batch Wastewater Discharge[9,10]		15	4	100	0.75	0.5	5	80	4	1.5	0.05	350	2	1	0.6	7	24	7

Notes:
Piezometer Locations are shown on Figures 2.
Screening tables and associated notes are included in Appendix E.
Laboratory analytical reports are included in Appendix D.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria.
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value.
Compounds that were not quantified above the laboratory reporting limit for any of the samples are not represented in this table.
Only screening values for compounds quantified above laboratory reporting limits are represented in this table.
Dissolved Metals analyzed by Environmental Protection Agency Methods 6020 and 7470A (Mercury).
mg/L = milligram per liter.
<x.x = Compound was not identified above laboratory reporting limit of x.x.
NV = No Value.

[1] California Code of Regulations, Title 22, Section 64431, Table 64431-A, Primary Maximum Contaminant Levels ("MCLs") Inorganic Chemicals.
[2] Values for lead and copper are called "Action Levels" and are specified in Sections 64678(d) through (g), Title 22 of the California Code of Regulations.
[3] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Tables A and C, Environmental Screening Levels ("ESLs"), Groundwater is a Current or Potential Source of Drinking Water.
[4] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Table F, Environmental Screening Levels, Surface Water Bodies, Marine.
[5] San Francisco Bay Regional Water Quality Control Board, 2007, San Francisco Bay Basin (Region 2) Water Quality Control Plan (Basin Plan), 18 January, Table 3-3, Marine Water Quality Objectives ("WQOs") for Toxic Pollutants for Surface Waters, 4-Day Average.
[6] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 3 Trigger Compounds or Constituents.
[7] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table E.6 Trigger Compounds.
[8] Presidio Trust, 2006, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco, Table 7-6.
[9] San Francisco Public Utilities Commission ("SFPUC"), 2006, Requirements for Batch Wastewater Discharges, 11 July.
[10] SFPUC discharge requirements are based on total metal concentrations.

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TABLE 3: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Bluff Piezometers, Doyle Drive Replacement Project

Piezometer ID	Sample Date	Chloroform	Chloromethane	Methylene Chloride
BTNB-R6-PZ-D	9/3/2009	<0.0005	<0.001	<0.01
BTNB-R7A-PZ-S	9/3/2009	<0.0005	<0.001	<0.01
BTNB-R7-PZ-D	9/3/2009	**0.0014**	**0.0002 J**	<0.01
BTSB-R1-PZ	9/3/2009	<0.0005	<0.001	<0.01
BTSB-R3A-PZ-S	9/4/2009	<0.0005	<0.001	**0.0002 J**
BTSB-R3-PZ-D	9/3/2009	<0.0005	<0.001	<0.01
RW8-R1-PZ	9/4/2009	<0.0005	<0.001	**0.0002 J**
MCLs for Drinking Water[1]		0.08	NV	0.005
ESLs for Groundwater[2]		0.07	0.041	0.005
ESLs for Marine Surface Water[3]		0.47	NV	1.6
NPDES Effluent Limitations[4,5]		0.005	NV	0.005
NPDES Trigger Compounds[6,7]		NV	0.005	NV
Presidio Trust Surface Water Cleanup Levels[8]		NV	NV	0.0047
Presidio Trust Freshwater Cleanup Levels[8]		NV	NV	NV
Presidio Trust Salt Water Cleanup Levels[8]		NV	NV	NV
SFPUC Batch Wastewater Discharge[9]		6	NV	NV

Notes:

Piezometer Locations are shown on Figures 2.
Screening tables and associated notes are included in Appendix E.
Laboratory analytical reports are included in Appendix D.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria.
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value.
Compounds that were not quantified above the laboratory reporting limit for any of the samples are not represented in this table.
Only screening values for compounds quantified above laboratory reporting limits are represented in this table.
Volatile Organic Compounds analyzed by Environmental Protection Agency Method 8260B.
mg/L = milligram per liter.
<x.x = Compound was not identified above laboratory reporting limit of x.x.
NV = No Value.
J = Estimated value.

[1] California Code of Regulations, Title 22, Section 64444, Table 64444-A, Primary Maximum Contaminant Levels ("MCLs") Organic Chemicals.

[2] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Tables A and C, Environmental Screening Levels ("ESLs"), Groundwater is a Current or Potential Source of Drinking Water.

[3] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Table F, Environmental Screening Levels, Surface Water Bodies, Marine.

[4] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 2 Effluent Limitations for Toxic Pollutants, Column B: Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

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TABLE 3: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Bluff Piezometers, Doyle Drive Replacement Project

[5] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table B.1 Effluent Limits, Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

[6] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 3 Trigger Compounds or Constituents.

[7] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table E.6 Trigger Compounds.

[8] Presidio Trust, 2006, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco, Table 7-6.

[9] San Francisco Public Utilities Commission ("SFPUC"), 2006, Requirements for Batch Wastewater Discharges, 11 July.

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TABLE 4: Miscellaneous Parameters in Groundwater
Bluff Piezometers, Doyle Drive Replacement Project

Piezometer ID	Sample Date	Chemical Oxygen Demand	Chloride	Dissolved Sulfide	pH	Total Suspended Solids	Turbidity
	Units	mg/l	mg/l	mg/l	SU	mg/l	NTU
BTNB-R6-PZ-D	9/3/2009	<10	**75**	<0.04	**7.9**	**19**	**12.19**
BTNB-R7A-PZ-S	9/3/2009	**15**	**70**	<0.04	**6.3**	**24**	**29.21**
BTNB-R7-PZ-D	9/3/2009	**20**	**80**	<0.04	**7.9**	**11**	**11.7**
BTSB-R1-PZ	9/3/2009	**13**	**110**	<0.04	**6.4**	**30**	**1.4**
BTSB-R3A-PZ-S	9/4/2009	**61**	**69**	<0.04	**6.6**	**94**	**--**
BTSB-R3-PZ-D	9/3/2009	<10	**78**	<0.04	**6.6**	**<5**	**7**
RW8-R1-PZ	9/4/2009	**24**	**110**	<0.04	**6.3**	**38**	**15.5**
NPDES Effluent Limitations[1,2]		NV	NV	NV	**6.5-8.5**	NV	NV
SFPUC Batch Wastewater Discharge[3]		NV	NV	0.5	6.0-9.5	NV	NV

Notes:

Piezometer Locations are shown on Figures 2.
Screening tables and associated notes are included in Appendix E.
Laboratory analytical reports are included in Appendix D.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria (or for pH, outside the acceptable range).
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value (or for pH, outside the acceptable range).
Chemical Oxygen Demand analyzed by Standard Method 5220D.
Chloride analyzed by EPA Method 300.00.
Dissolved sulfide analyzed by Standard Method 4500S2-D.
pH analyzed by EPA Method 9040C.
Total suspended solids analyzed by Standard Method 2540D.
Turbidty measurements collected in the field by BASELINE using a low-flow sampling procedure.
mg/L = milligram per liter.
SU = Standard Units.
NTU = Nephelometric Turbidity Units
<x.x = Compound was not identified above laboratory reporting limit of x.x.
-- = Not analyzed or not applicable.
NV = No Value.

[1] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 2 Effluent Limitations for Toxic Pollutants, Column B: Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

[2] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table B.1 Effluent Limits, Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

[3] San Francisco Public Utilities Commission ("SFPUC"), 2006, Requirements for Batch Wastewater Discharges, 11 July.

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TABLE 5: Dissolved Metal Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1065MW101A	4.5 to 9.5	6/10/2008	<0.1	--	**0.032**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/9/2008	<0.1	--	**0.034**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/2/2008	<0.1	--	**0.031**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/4/2009	<0.1	--	**0.025**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1065MW102A	4.5 to 7.5	6/10/2008	<0.1	--	**0.011**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/9/2008	<0.1	--	**0.012**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/2/2008	<0.1	--	**0.0077**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/4/2009	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1065MW103A	4.0 to 9.0	6/11/2008	<0.1	--	**0.0058**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/12/2008	<0.1	--	**0.0078**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/3/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/4/2009	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ4A	6.0 to 11.0	5/24/2006	<0.1	<0.001	**0.0079**	--	--	<0.001	<0.01	--	**0.0017**	<0.003	--	--	<0.02	--	--	--	<0.01	**0.026**
		8/17/2006	<0.1	<0.001	**0.012**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	<0.01	<0.02
		12/6/2006	<0.1	<0.001	**0.014**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	<0.01	<0.02
		3/1/2007	<0.1	<0.001	**0.012**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	<0.01	<0.02
		6/10/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		9/9/2008	<0.1	--	**0.016**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/2/2008	<0.1	--	**0.0093**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/3/2009	<0.1	--	**0.016**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/10/2009	<0.1	--	**0.016**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1065PZ4B	18.0 to 22.0	3/17/2004	--	--	<0.005	--	--	<0.001	**0.024**	--	**0.0023**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/5/2005	<0.1	<0.001	<0.005	--	--	<0.001	**0.025**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/13/2006	<0.1	<0.001	<0.005	--	--	<0.001	**0.025**	--	**0.0018**	<0.003	--	--	<0.02	--	--	--	**0.012**	<0.02
		3/1/2007	<0.1	<0.001	<0.005	--	--	<0.001	**0.031**	--	**0.0012**	<0.003	--	--	<0.02	--	--	--	**0.014**	<0.02
1065PZ7A	4.0 to 11.0	3/17/2004	--	--	<0.005	--	--	<0.001	<0.01	--	**0.0021**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/6/2005	<0.1	<0.06	<0.005	--	--	<0.001	<0.01	--	**0.0011**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	<0.001	<0.005	--	--	**0.0011**	**0.019**	--	<0.001	<0.003	--	--	<0.02	--	--	--	**0.01**	<0.02
		2/27/2007	<0.1	<0.001	<0.005	--	--	<0.001	<0.01	--	**0.0015**	<0.003	--	--	<0.02	--	--	--	<0.01	<0.02
1065PZ7B	17.0 to 24.0	3/17/2004	--	--	<0.005	--	--	<0.001	**0.031**	--	**0.0033**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/6/2005	<0.1	<0.06	<0.005	--	--	<0.001	**0.026**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	<0.001	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	<0.01	<0.02
		3/1/2007	<0.1	<0.001	<0.005	--	--	<0.001	**0.03**	--	**0.0016**	<0.003	--	--	<0.02	--	--	--	**0.014**	<0.02
207GW03	13.0 to 23.0	4/12/2005	<0.1	--	**0.000249**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/16/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/8/2007	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW06	13.3 to 23.3	4/4/2005	<0.1	--	**0.0061**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	**0.0072**	--	--	<0.001	<0.01	--	**0.0014**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/5/2007	<0.1	--	**0.0076**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02

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TABLE 5: Dissolved Metal Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
231GW13	33.5 to 43.5	4/5/2005	<0.1	--	**0.032**	--	--	<0.001	<0.01	--	**0.0055**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/14/2006	<0.1	--	**0.035**	--	--	<0.001	<0.01	--	**0.0057**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/5/2007	<0.1	--	**0.031**	--	--	<0.001	<0.01	--	**0.0074**	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW15	14.5 to 19.5	4/5/2005	<0.1	--	**0.000322 J**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/14/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	**0.45**	--	<0.005	--	--	<0.001	<0.01	--	**0.0038**	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW16	4.5 to 8.5	3/22/2005	<0.1	--	**0.000112**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/9/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/7/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
231GW17	25.0 to 35.0	4/5/2005	<0.1	--	**0.000818 J**	--	--	<0.001	**0.02**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	**0.019**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	<0.005	--	--	<0.001	**0.018**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW18	15.0 to 18.3	4/5/2005	<0.1	--	**0.00125 J**	--	--	<0.001	**0.015**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	**0.014**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	<0.005	--	--	<0.001	**0.015**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW19	4.5 to 9.3	4/5/2005	<0.1	--	**0.00914 J**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/16/2006	<0.1	--	**0.0092**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.018**	--	--	<0.001	<0.01	--	**0.0011**	<0.003	--	--	<0.02	--	--	--	--	**0.02**
231GW20	30.0 to 40.0	4/6/2005	<0.1	--	**0.000809**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	**0.0028**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/5/2007	<0.1	--	<0.005	--	--	**0.0016**	<0.01	--	**0.0043**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/11/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
231GW200A	unknown	3/7/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/11/2008	<0.1	<0.001	**0.0099**	**0.13**	<0.002	<0.001	<0.01	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	<0.01	<0.02
		9/9/2008	<0.1	<0.001	**0.016**	**0.13**	<0.002	<0.001	<0.01	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	<0.01	<0.02
		12/3/2008	<0.1	<0.001	<0.005	**0.31**	<0.002	<0.001	<0.01	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	<0.01	<0.02
231GW200B	unknown	3/7/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/11/2008	<0.1	<0.001	<0.005	**0.022**	<0.002	<0.001	**0.016**	<0.01	**0.0018**	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	**0.015**	<0.02
		9/9/2008	<0.1	<0.001	<0.005	**0.028**	<0.002	<0.001	**0.025**	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	**0.02**	<0.02
		12/3/2008	<0.1	<0.001	<0.005	**0.028**	<0.002	<0.001	**0.014**	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	**0.016**	<0.02
231GW21	4.8 to 8.8	3/8/2006	<0.1 U	--	**0.019**	--	--	<0.001 U	<0.01 U	--	<0.002 U	**0.0046**	--	--	**0.0036**	--	--	--	--	<0.02 U
		6/7/2007	<0.1	--	**0.021**	--	--	<0.001	<0.01	--	<0.001	**0.0036**	--	--	<0.02	--	--	--	--	<0.02
		3/7/2008	<0.1	--	**0.014**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/11/2008	<0.1	<0.001	**0.018**	**0.15**	<0.002	<0.001	<0.01	<0.01	<0.001	**0.0037**	--	--	<0.02	<0.005	<0.001	<0.001	<0.01	<0.02
231GW22	3.7 to 9.7	3/9/2006	<0.1	--	**0.031**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.033**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/7/2008	<0.1	--	**0.031**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/11/2008	<0.1	<0.001	**0.03**	**0.29**	<0.002	<0.001	<0.01	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	<0.01	<0.02
231GW24	2.7-7.7	4/5/2005	<0.1	--	**0.00419 J**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/16/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.0059**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02

TABLE 5: Dissolved Metal Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
231GW25	3.2 to 10.2	4/6/2005	<0.1	--	**0.0142**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	**0.014**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.015**	--	--	<0.001	<0.01	--	**0.0017**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/7/2008	<0.1	--	**0.013**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
231GW26	13.7 to 23.7	4/6/2005	<0.1	--	**0.00294**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/16/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/8/2007	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/11/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
231GW27	18.7 to 25.7	4/6/2005	<0.1	--	**0.00103**	--	--	<0.001	**0.023**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	**0.03**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/8/2007	<0.1	--	<0.005	--	--	<0.001	**0.027**	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW28	7.2 to 11.2	4/6/2005	<0.1	--	**0.0058**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	**0.0063**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/5/2007	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231GW30	4.2 to 9.2	3/22/2005	<0.1	--	**0.00697**	--	--	<0.001	<0.01	--	**0.0012**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/9/2006	<0.1	--	**0.0072**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.015**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231PZ01	2.0 to 10.0	4/4/2005	<0.2	--	**0.017**	--	--	<0.001	<0.01	--	<0.001	**0.0054**	--	--	<0.02	--	--	--	--	<0.02
		3/14/2006	<0.1	--	**0.022**	--	--	<0.001	<0.01	--	**0.001**	**0.0063**	--	--	<0.02	--	--	--	--	**0.022**
231PZ02	2.0 to 9.0	4/4/2005	<0.2	--	**0.000387**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/10/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/11/2008	<0.1	<0.001	**0.0067**	**0.16**	<0.002	<0.001	<0.01	<0.01	<0.001	<0.003	--	--	<0.02	<0.005	<0.001	<0.001	<0.01	<0.02
231PZ03	2.1 to 9.1	4/4/2005	<0.2	--	**0.00231**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/14/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.0085**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
231PZ04	2.3 to 9.3	4/4/2005	<0.2	--	**0.01**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/14/2006	<0.1	--	**0.01**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	**0.012**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/7/2008	<0.1	--	**0.009**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
600GW101R	3.0 to 7.0	12/19/2007	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/6/2008	<0.1	--	**0.005**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/10/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
600GW102	3.0 to 7.0	12/2/2003	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/9/2004	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/6/2005	<0.1	--	**0.00114**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	**0.0011**	<0.003	--	--	<0.02	--	--	--	--	<0.02
600GW103	3.0 to 6.5	12/2/2003	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/9/2004	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/11/2005	<0.1	--	**0.0054**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
600GW104	3.0 to 7.0	12/2/2003	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/9/2004	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/11/2005	<0.1	--	**0.00218**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/15/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	**0.0014**	<0.003	--	--	<0.02	--	--	--	--	<0.02

TABLE 5: Dissolved Metal Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
600GW106	3.0 to 8.0	9/1/2005	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		12/1/2005	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/8/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	**0.029**
		5/23/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/7/2007	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8/21/2007	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/19/2007	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/4/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/12/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
600GW107	3.0 to 8.0	12/3/2003	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/10/2004	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/11/2005	<0.1	--	**0.007**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	**0.021**
		3/20/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
600GW108	3.0 to 8.0	9/1/2005	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	**0.024**
		11/30/2005	<0.1 U	--	<0.005	--	--	<0.001 U	<0.01 U	--	<0.002 U	<0.003	--	--	**0.0032**	--	--	--	--	<0.02 U
		3/7/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	**0.0031**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		5/23/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
600GW109	3.0 to 8.0	12/3/2003	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/9/2004	--	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		4/1/2005	<0.1	--	<0.005	--	--	<0.001	<0.01	--	**0.0024**	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/14/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
610GW102	3.0 to 7.0	12/1/2005	<0.1	--	**0.0068**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		3/7/2006	<0.1	--	**0.0059**	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	**0.03**
		5/23/2006	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		6/6/2007	<0.1	--	<0.005	--	--	<0.001	<0.01	--	<0.001	<0.003	--	--	<0.02	--	--	--	--	<0.02
		8/21/2007	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/19/2007	<0.1	--	**0.0054**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3/4/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6/12/2008	<0.1	--	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MCLs for Drinking Water[1,2]			1	0.006	0.01	1	0.004	0.005	0.05	NV	1.3	0.015	0.002	NV	0.1	0.05	NV	0.002	NV	NV
ESLs for Groundwater[3]			NV	0.006	0.036	1	0.00053	**0.00025**	0.05	0.003	**0.0031**	**0.0025**	0.000025	0.035	0.0082	0.005	0.00019	0.002	**0.015**	0.081
ESLs for Marine Surface Water[4]			NV	0.5	**0.00014**	1	0.00053	0.0093	0.18	0.003	**0.0031**	**0.0056**	0.000025	0.24	0.0082	0.071	0.00019	0.004	**0.019**	0.081
WQOs for Marine Surface Water[5]			NV	NV	0.036	NV	NV	0.0093	0.05	NV	**0.0031**	0.0081	0.000025	NV	0.0082	0.071	0.0019	NV	NV	0.081
NPDES Trigger Compounds[6,7]			NV	0.006	**0.01**	NV	0.001	**0.00007**	**0.011**	NV	**0.0031**	**0.002**	0.000025	NV	0.0082	0.005	0.0019	0.0001	NV	0.035
Presidio Trust Surface Water Cleanup Levels[8]			NV	0.014	0.15	NV	NV	**0.0011**	0.18	NV	0.009	**0.0025**	0.000012	NV	0.052	0.005	0.0034	0.0017	NV	0.12
Presidio Trust Freshwater Cleanup Levels[8]			NV	NV	0.15	NV	NV	**0.0011**	0.18	NV	0.009	**0.0025**	0.000012	NV	0.052	0.005	0.0034	NV	NV	0.12
Presidio Trust Salt Water Cleanup Levels[8]			NV	NV	0.036	NV	NV	0.0093	0.05	NV	**0.0031**	0.0081	0.000025	NV	0.0082	0.071	0.0019	NV	NV	0.081
SFPUC Batch Wastewater Discharge[9,10]			NV	NV	4	NV	NV	0.5	5	NV	4	1.5	0.05	NV	2	NV	0.6	NV	NV	7

TABLE 5: Dissolved Metal Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Notes:
Monitoring well locations are shown on Figure 3.
Screening tables and associated notes are included in Appendix E.
Analytical data provided by Treadwell & Rollo, Inc. on behalf of the Presidio Trust.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria.
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value.
Dissolved metals analyzed by method E1632 and Environmental Protection Agency Methods SW6010, SW6020, SW7421 (lead), and SW7470A (mercury).
mg/L = milligram per liter.
<x.x = Compound was not identified above laboratory reporting limit of x.x.
-- = Not analyzed or not applicable.
NV = No Value.
U = The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, refer to the specific analytical report for the rationale behind the qualification.
Pre-2003 data from monitoring wells 1027MW01, 1027MW03, and 637-26 are not included in this table.

[1] California Code of Regulations, Title 22, Section 64431, Table 64431-A, Primary Maximum Contaminant Levels ("MCLs") Inorganic Chemicals.
[2] Values for lead and copper are called "Action Levels" and are specified in Sections 64678(d) through (g), Title 22 of the California Code of Regulations.
[3] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Tables A and C, Environmental Screening Levels ("ESLs"), Groundwater is a Current or Potential Source of Drinking Water.
[4] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Table F, Environmental Screening Levels, Surface Water Bodies, Marine.
[5] San Francisco Bay Regional Water Quality Control Board, 2007, San Francisco Bay Basin (Region 2) Water Quality Control Plan (Basin Plan), 18 January, Table 3-3, Marine Water Quality Objectives ("WQOs") for Toxic Pollutants for Surface Waters, 4-Day Average.
[6] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 3 Trigger Compounds or Constituents.
[7] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table E.6 Trigger Compounds.
[8] Presidio Trust, 2006, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco, Table 7-6.
[9] San Francisco Public Utilities Commission ("SFPUC"), 2006, Requirements for Batch Wastewater Discharges, 11 July.
[10] SFPUC discharge requirements are based on total metal concentrations.

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TABLE 6: Total Petroleum Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	TPH as Gasoline (C7-C12)	TPH as Diesel (C12-C24)	TPH as Motor Oil (C24-C36)
1065MW101A	4.5 to 9.5	6/10/2008	<0.05	--	--
		9/9/2008	<0.05	--	--
		12/2/2008	<0.05	--	--
		3/4/2009	<0.05	--	--
1065MW102A	4.5 to 7.5	6/10/2008	<0.05	--	--
		9/9/2008	<0.05	--	--
		12/2/2008	<0.05	--	--
		3/4/2009	<0.05	--	--
1065MW103A	4.0 to 9.0	6/11/2008	<0.05	--	--
		9/12/2008	<0.05	--	--
		12/3/2008	<0.05	--	--
		3/4/2009	<0.05	--	--
1065PZ4A	6.0 to 11.0	5/24/2006	<0.05	<0.05	<0.3
		8/17/2006	<0.05	**0.09 HY**	**0.39**
		12/6/2006	<0.05	<0.1	<0.6
		3/1/2007	<0.05	<0.05	<0.3
1065PZ4B	18.0 to 22.0	3/17/2004	<0.05	<0.05	<0.3
		4/5/2005	<0.05	<0.05	<0.3
		3/13/2006	<0.05	<0.05	<0.3
		3/1/2007	<0.05	<0.05	<0.3
1065PZ7A	4.0 to 11.0	3/17/2004	<0.05	<0.05	<0.3
		4/6/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		2/27/2007	<0.05	<0.05	<0.3
1065PZ7B	17.0 to 24.0	3/17/2004	<0.05	<0.05	<0.3
		4/6/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		3/1/2007	<0.05	<0.05	<0.3
207GW03	13.0 to 23.0	3/19/2004	<0.05	<0.05	<0.3
		4/12/2005	<0.05	<0.05	<0.3
		3/16/2006	<0.05	**0.055 HY**	<0.3
		6/8/2007	<0.05	<0.05	<0.3
231GW06	13.3 to 23.3	3/18/2004	<0.05	<0.05	<0.3
		4/4/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		6/5/2007	<0.05	<0.05	<0.3
231GW13	33.5 to 43.5	3/18/2004	<0.05	<0.05	<0.3
		4/5/2005	<0.05	<0.05	<0.3
		3/14/2006	<0.05	<0.05	<0.3
		6/5/2007	<0.05	<0.05	<0.3

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TABLE 6: Total Petroleum Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	TPH as Gasoline (C7-C12)	TPH as Diesel (C12-C24)	TPH as Motor Oil (C24-C36)
231GW15	14.5 to 19.5	3/18/2004	<0.05	<0.05	<0.3
		4/5/2005	<0.05	<0.05	<0.3
		3/14/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	<0.05	<0.3
231GW16	4.5 to 8.5	3/22/2005	<0.05	<0.05	<0.3
		3/9/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	<0.05	<0.3
		3/7/2008	--	**0.2 Y**	**0.93**
231GW17	25.0 to 35.0	3/18/2004	<0.05	<0.05	<0.3
		4/5/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	<0.05	<0.3
231GW18	15.0 to 18.3	3/18/2004	<0.05	<0.05	<0.3
		4/5/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	<0.05	<0.3
231GW19	4.5 to 9.3	3/18/2004	<0.05	**0.072 HY**	**0.37**
		4/5/2005	<0.05	<0.05	<0.3
		3/16/2006	<0.05	**0.065 HY**	<0.3
		6/7/2007	<0.05	<0.05	<0.3
231GW20	30.0 to 40.0	4/6/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		6/5/2007	<0.05	<0.05	<0.3
		3/11/2008	--	<0.05	**0.35**
231GW200A	unknown	9/9/2008	**3.6 Y**	**0.077 Y**	<0.3
		12/3/2008	**6.8 Y**	**0.11 Y**	<0.3
		3/3/2009	**8.7 Y**	**0.21 Y**	<0.3
		6/10/2009	**35 Y**	**0.34 Y**	**0.36**
231GW200B	unknown	9/9/2008	<0.05	<0.05	<0.3
		12/3/2008	<0.05	<0.05	<0.3
		3/3/2009	<0.05	<0.05	<0.3
		6/10/2009	**0.06 Y**	<0.05	<0.3
231GW21	4.8 to 8.8	3/8/2006	**3.1**	**0.33 LY**	<0.3
		6/7/2007	**4.1**	**0.18 LY**	<0.3
		3/7/2008	--	**0.36 Y**	**0.48**
		6/11/2008	**4.6 Y**	**0.18 Y**	<0.3
231GW22	3.7 to 9.7	3/9/2006	**8.4**	**0.3 LY**	<0.3
		6/7/2007	**11**	**0.21 LY**	<0.3
		3/7/2008	--	**0.32 Y**	<0.3
		6/11/2008	**13**	**0.27 Y**	<0.3

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TABLE 6: Total Petroleum Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	TPH as Gasoline (C7-C12)	TPH as Diesel (C12-C24)	TPH as Motor Oil (C24-C36)
231GW24	2.7-7.7	3/18/2004	<0.05	<0.05	<0.3
		4/5/2005	<0.05	<0.05	<0.3
		3/16/2006	<0.05	**0.055 HY**	<0.3
		6/7/2007	<0.05	<0.05	<0.3
231GW25	3.2 to 10.2	4/6/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	<0.05	<0.3
		3/7/2008	--	<0.05	<0.3
231GW26	13.7 to 23.7	4/6/2005	<0.05	<0.05	<0.3
		3/16/2006	<0.05	<0.05	<0.3
		6/8/2007	<0.05	<0.05	<0.3
		3/11/2008	--	**0.052 Y**	<0.3
231GW27	18.7 to 25.7	3/19/2004	<0.05	<0.05	<0.3
		4/6/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
		6/8/2007	<0.05	<0.05	<0.3
231GW28	7.2 to 11.2	3/18/2004	<0.05	**0.055 Y**	<0.3
		4/6/2005	**0.051 HY**	<0.05	<0.3
		3/15/2006	<0.05	**0.16 Y**	<0.3
		6/5/2007	**0.053 Y**	<0.05	<0.3
231GW30	4.2 to 9.2	3/19/2004	<0.05	<0.05	<0.3
		3/22/2005	<0.05	<0.05	<0.3
		3/9/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	**0.07 Y**	<0.3
231PZ01	2.0 to 10.0	3/19/2004	**24 Z**	**0.34 LY**	<0.3
		4/4/2005	**15**	**0.43 LY**	<0.3
		3/14/2006	**9.3**	**0.36 Y**	<0.3
		6/7/2007	**13**	**0.43 LY**	<0.3
231PZ02	2.0 to 9.0	4/4/2005	**1.1**	**0.1 Y**	<0.3
		3/10/2006	**0.78**	**0.43 Y**	<0.3
		6/7/2007	**0.84 L**	**0.1 Y**	<0.3
		6/11/2008	**0.64**	**0.13 Y**	**0.32**
231PZ03	2.1 to 9.1	3/19/2004	**4.7**	**0.098 LY**	<0.3
		4/4/2005	**3.7**	**0.18 Y**	<0.3
		3/14/2006	**4**	**0.2 Y**	<0.3
		6/7/2007	**4.9**	**0.16 LY**	<0.3
231PZ04	2.3 to 9.3	4/4/2005	**6.1**	**0.29 LY**	<0.3
		3/14/2006	**5.3**	**0.35 Y**	<0.3
		6/7/2007	**5.2**	**0.19 LY**	<0.3
		3/7/2008	--	**0.61 Y**	<0.3
600GW101R	3.0 to 7.0	12/19/2007	**0.26 Y**	<0.05	<0.3
		6/10/2008	**0.36 Y**	<0.05	<0.3

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TABLE 6: Total Petroleum Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	TPH as Gasoline (C7-C12)	TPH as Diesel (C12-C24)	TPH as Motor Oil (C24-C36)
600GW102	3.0 to 7.0	12/2/2003	<0.05	<0.05	<0.3
		3/9/2004	<0.05	<0.05	<0.3
		4/6/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
600GW103	3.0 to 6.5	12/2/2003	<0.05	<0.05	<0.3
		3/9/2004	<0.05	<0.05	<0.3
		4/11/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
600GW104	3.0 to 7.0	12/2/2003	<0.05	<0.05	<0.3
		3/9/2004	<0.05	<0.05	<0.3
		4/11/2005	<0.05	<0.05	<0.3
		3/15/2006	<0.05	<0.05	<0.3
600GW106	3.0 to 8.0	5/23/2006	<0.05	<0.05	<0.3
		6/7/2007	<0.05	<0.05	<0.3
		12/19/2007	<0.05	<0.05	<0.3
		6/12/2008	<0.05	<0.05	<0.3
600GW107	3.0 to 8.0	12/3/2003	<0.05	<0.05	<0.3
		3/10/2004	<0.05	<0.05	<0.3
		4/11/2005	<0.05	<0.05	<0.3
		3/20/2006	<0.05	<0.05	<0.3
600GW108	3.0 to 8.0	9/1/2005	<0.05	<0.05	<0.3
		11/30/2005	<0.05	<0.05	<0.3
		3/7/2006	<0.05	<0.05	<0.3
		5/23/2006	<0.05	<0.05	<0.3
600GW109	3.0 to 8.0	12/3/2003	<0.05	<0.05	<0.3
		3/9/2004	<0.05	<0.05	<0.3
		4/1/2005	<0.05	<0.05	<0.3
		3/14/2006	<0.05	<0.05	<0.3
610GW102	3.0 to 7.0	5/23/2006	**0.05 LY**	<0.05	<0.3
		6/6/2007	<0.05	<0.05	<0.3
		12/19/2007	<0.05	<0.05	<0.3
		6/12/2008	**0.066 Y**	<0.05	<0.3
637-39R	3.0 to 6.0	3/12/2003	<0.05	<0.05	--
ESLs for Groundwater[1]			**0.1**	**0.1**	**0.1**
ESLs for Marine Surface Water[2]			**0.21**	**0.21**	**0.21**
NPDES Effluent Limitations[3,4]			**0.05**	**0.05**	NV
NPDES Trigger Compounds[5,6,7]			NV	NV	**0.05**
Presidio Trust Surface Water Cleanup Levels[8]			**0.443**	**0.443**	**0.443**
Presidio Trust Freshwater Cleanup Levels[8]			**0.443**	**0.443**	**0.443**
Presidio Trust Salt Water Cleanup Levels[8]			**1.2**	2.2	2.2

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TABLE 6: Total Petroleum Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Notes:

Monitoring well locations are shown on Figure 3.
Screening tables and associated notes are included in Appendix E.
Analytical data provided by Treadwell & Rollo, Inc. on behalf of the Presidio Trust.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria.
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value.
Total Petroleum Hydrocarbons ("TPH") analyzed by Environmental Protection Agency Method SW8015M.
mg/L = milligram per liter.
<x.x = Compound was not identified above laboratory reporting limit of x.x.
-- = Not analyzed or not applicable.
NV = No Value.
H = Heavier hydrocarbons contributed to the quantitation.
L = Lighter hydrocarbons contributed to the quantitation.
Y = Sample exhibits a fuel pattern, which does not resemble standard.
Pre-2003 data from monitoring wells 1027MW01, 1027MW03, and 637-26 are not included in this table.

[1] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Tables A and C, Environmental Screening Levels ("ESLs"), Groundwater is a Current or Potential Source of Drinking Water.

[2] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Table F, Environmental Screening Levels, Surface Water Bodies, Marine.

[3] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 2 Effluent Limitations for Toxic Pollutants, Column B: Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

[4] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table B.1 Effluent Limits, Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

[5] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 3 Trigger Compounds or Constituents.

[6] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table E.6 Trigger Compounds.

[7] The screening criterion for TPH as Motor Oil (0.05 mg/l) applies only to Water Quality Order No. R2-2006-0075 (NPDES No. CAG912002).

[8] Presidio Trust, 2006, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco, Table 7-6.

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
1065MW101	4.5 to 9.5	SW8260M	6/10/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	9/9/2008	--	<0.0005	--	--	<0.0005	<0.0005	**0.0007**	<0.0005	--
		SW8260M	12/2/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	3/4/2009	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
1065MW102	4.5 to 7.5	SW8260M	6/10/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	9/9/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	12/2/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	3/4/2009	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
1065MW103	4.0 to 9.0	SW8260M	6/11/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	9/12/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	12/3/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
		SW8260M	3/4/2009	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
1065PZ4A	6.0 to 11.0	SW8020	5/24/2006	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	8/17/2006	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	12/6/2006	--	<0.0005	--	--	<0.0005	**0.007 C**	<0.0005	--	<0.001
		SW8020	3/1/2007	--	<0.0005	--	--	<0.0005	**0.0021 C**	<0.0005	--	<0.001
1065PZ4B	18.0 to 22.0	SW8020	3/17/2004	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.0005
		SW8020	4/5/2005	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	3/13/2006	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	3/1/2007	--	<0.0005	--	--	<0.0005	**0.003**	<0.0005	--	<0.001
1065PZ7A	4.0 to 11.0	SW8020	3/17/2004	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.0005
		SW8020	4/6/2005	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	3/15/2006	--	<0.0005	--	--	<0.0005	**0.016**	<0.0005	--	<0.001
		SW8020	2/27/2007	--	<0.0005	--	--	<0.0005	**0.012 C**	<0.0005	--	<0.001

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
1065PZ7B	17.0 to 24.0	SW8020	3/17/2004	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.0005
		SW8020	4/6/2005	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	3/15/2006	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	3/1/2007	--	<0.0005	--	--	<0.0005	**0.0033**	<0.0005	--	<0.001
207GW03	13.0 to 23.0	SW8260M	3/19/2004	<0.0005	<0.0005	**0.0015**	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/12/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/16/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/8/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW06	13.3 to 23.3	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/4/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/5/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW13	33.5 to 43.5	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/5/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/14/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/5/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW15	14.5 to 19.5	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/5/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/14/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW16	4.5 to 8.5	SW8260M	3/22/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/9/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/7/2008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
231GW17	25.0 to 35.0	SW8260M	3/18/2004	<0.0005	**0.0002 J**	<0.0005	**0.0029**	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/5/2005	<0.0005	<0.0005	<0.0005	**0.0026**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	**0.0026**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	**0.0021**	<0.0005	<0.0005	<0.0005	--	<0.001
231GW18	15.0 to 18.3	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	**0.0008**	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/5/2005	<0.0005	<0.0005	<0.0005	**0.0006**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	**0.0006**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	**0.0006**	<0.0005	<0.0005	<0.0005	--	<0.001
231GW19	4.5 to 9.3	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/5/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/16/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW20	30.0 to 40.0	SW8260M	4/6/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/5/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/11/2008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW200A	unknown	SW8260M	3/7/2008	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	--	**0.086**
		SW8260M	6/11/2008	<0.0005	<0.0005	<0.0005	<0.0005	**0.0012**	<0.0005	<0.0005	--	**0.094**
		SW8260M	9/9/2008	**0.0007**	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	**0.057**
		SW8260M	12/3/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	**0.089**
231GW200B	unknown	SW8260M	3/7/2008	<0.0005	<0.0005	<0.0005	**0.0007**	<0.0005	<0.0005	<0.0005	--	**0.0006**
		SW8260M	6/11/2008	<0.0005	<0.0005	<0.0005	**0.0008**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	9/9/2008	<0.0005	<0.0005	<0.0005	**0.0015**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	12/3/2008	<0.0005	<0.0005	<0.0005	**0.0007**	<0.0005	<0.0005	<0.0005	--	<0.001

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
231GW21	4.8 to 8.8	SW8260M	3/8/2006	<0.001	**0.089**	<0.001	<0.001	**0.004**	<0.001	**0.0034**	--	**0.0018**
		SW8260M	6/7/2007	<0.001	**0.13**	<0.001	<0.001	**0.0033**	<0.001	**0.0055**	--	**0.0036**
		SW8260M	3/7/2008	<0.0005	**0.07**	<0.0005	<0.0005	**0.0027**	<0.0005	**0.0029**	--	**0.002**
		SW8260M	6/11/2008	<0.0005	**0.17**	<0.0005	<0.0005	**0.0041**	<0.0005	**0.0062**	--	**0.0034**
231GW22	3.7 to 9.7	SW8260M	3/9/2006	<0.031	**4.4**	<0.031	<0.031	**0.23**	<0.031	**0.06**	--	**0.55**
		SW8260M	6/7/2007	<0.025	**2.8**	<0.025	<0.025	**0.1**	<0.025	**0.031**	--	**0.28**
		SW8260M	3/7/2008	<0.013	**3.4**	<0.013	<0.013	**0.073**	<0.013	**0.045**	--	**0.37**
		SW8260M	6/11/2008	<0.031	**3**	<0.031	<0.031	**0.061**	<0.031	**0.042**	--	**0.28**
231GW24	2.7-7.7	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/5/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/16/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW25	3.2 to 10.2	SW8260M	4/6/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/7/2008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231GW26	13.7 to 23.7	SW8260M	4/6/2005	<0.0005	<0.0005	<0.0005	**0.0014**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/16/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/8/2007	<0.0005	**0.00006 J**	<0.0005	**0.0011**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/11/2008	<0.0005	<0.0005	<0.0005	**0.0015**	<0.0005	<0.0005	<0.0005	--	<0.001
231GW27	18.7 to 25.7	SW8260M	3/19/2004	<0.0005	**0.0001 J**	<0.0005	**0.0017**	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/6/2005	<0.0005	<0.0005	<0.0005	**0.0014**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	**0.0012**	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/8/2007	<0.0005	**0.00004 J**	<0.0005	**0.0009**	<0.0005	<0.0005	<0.0005	--	<0.001

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
231GW28	7.2 to 11.2	SW8260M	3/18/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/6/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.012**	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.0024**	<0.0005	--	<0.001
		SW8260M	6/5/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.001**	<0.0005	--	<0.001
231GW30	4.2 to 9.2	SW8260M	3/19/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	3/22/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/9/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	6/7/2007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
231PZ01	2.0 to 10.0	SW8260M	4/4/2005	<0.025	**4.6**	<0.025	<0.025	**0.15**	<0.025	**0.026**	--	<0.05
		SW8260M	3/14/2006	<0.031	**4.5**	<0.031	<0.031	**0.31**	<0.031	<0.031	--	<0.063
		SW8260M	6/7/2007	<0.031	**4.7**	<0.031	<0.031	**0.13**	<0.031	<0.031	--	<0.063
		SW8260M	3/11/2008	<0.0083	**3.3**	<0.0083	<0.0083	**0.15**	<0.0083	**0.017**	--	**0.011**
231PZ02	2.0 to 9.0	SW8260M	4/4/2005	<0.0005	**0.019**	<0.0005	<0.0005	<0.0005	<0.0005	**0.0035**	--	**0.0028**
		SW8260M	3/10/2006	<0.0005	**0.03**	<0.0005	<0.0005	<0.0005	<0.0005	**0.0033**	--	**0.0031**
		SW8260M	6/7/2007	<0.001	**0.14**	<0.001	<0.001	<0.001	<0.001	**0.0034**	--	**0.0023**
		SW8260M	6/11/2008	<0.001	**0.12**	<0.001	<0.001	<0.001	<0.001	**0.0031**	--	**0.0021**
231PZ03	2.1 to 9.1	SW8260M	3/19/2004	<0.002	**0.4**	<0.002	<0.002	**0.0064**	<0.002	**0.0058**	--	<0.002
		SW8260M	4/4/2005	<0.0031	**0.37**	<0.0031	<0.0031	**0.0037**	<0.0031	**0.0054**	--	<0.0063
		SW8260M	3/14/2006	<0.0005	**0.28**	<0.0005	<0.0005	**0.0054**	<0.0005	**0.0069**	--	**0.003**
		SW8260M	6/7/2007	<0.0013	**0.19**	<0.0013	<0.0013	**0.0038**	<0.0013	**0.0071**	--	**0.0042**
231PZ04	2.3 to 9.3	SW8260M	4/4/2005	<0.0042	**0.75**	<0.0042	<0.0042	**0.033**	<0.0042	**0.0061**	--	<0.0083
		SW8260M	3/14/2006	<0.0036	**0.44**	<0.0036	<0.0036	**0.019**	<0.0036	**0.0064**	--	<0.0071
		SW8260M	6/7/2007	<0.0013	**0.26**	<0.0013	<0.0013	**0.013**	<0.0013	**0.0067**	--	**0.0028**
		SW8260M	3/7/2008	<0.0025	**0.34**	<0.0025	<0.0025	**0.02**	<0.0025	**0.0072**	--	**0.0026**

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
600GW101R	3.0 to 7.0	SW8020	12/19/2007	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8260M	6/10/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
600GW102	3.0 to 7.0	SW8260M	12/2/2003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	3/9/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/6/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
600GW103	3.0 to 6.5	SW8260M	12/2/2003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	3/9/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/11/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
600GW104	3.0 to 7.0	SW8260M	12/2/2003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	3/9/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/11/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/15/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
600GW106	3.0 to 8.0	SW8260M	3/8/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8020	6/7/2007	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	12/19/2007	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8260M	6/12/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
600GW107	3.0 to 8.0	SW8260M	12/3/2003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	3/10/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/11/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/20/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
600GW108	3.0 to 8.0	SW8260M	6/1/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	9/1/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	11/30/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/7/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001

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Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	1,2-Dichloropropane	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	MTBE	Toluene	m,p-Xylenes	Xylenes (Total)
600GW109	3.0 to 8.0	SW8260M	12/3/2003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	3/9/2004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0005
		SW8260M	4/1/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
		SW8260M	3/14/2006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.001
610GW102	3.0 to 7.0	SW8020	5/23/2006	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	6/6/2007	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8020	12/19/2007	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.001
		SW8260M	6/12/2008	--	<0.0005	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--
637-39R	3.0 to 6.0	SW8020	3/12/2003	--	<0.0005	--	--	<0.0005	<0.002	<0.0005	--	<0.0005
MCLs for Drinking Water[1]				0.005	**0.001**	NV	0.08	**0.3**	**0.013**	0.15	1.75	1.75
ESLs for Groundwater[2]				0.005	**0.001**	NV	0.07	**0.03**	**0.005**	**0.04**	0.02	**0.02**
ESLs for Marine Surface Water[3]				0.01	**0.071**	NV	0.47	**0.03**	0.18	**0.04**	0.1	**0.1**
NPDES Effluent Limitations[4,5]				NV	**0.005**	NV	0.005	**0.005**	**0.005**	**0.005**	0.005	**0.005**
NPDES Trigger Compounds[6,7]				**0.0005**	NV	0.005	NV	NV	NV	NV	NV	NV
Presidio Trust Surface Water Cleanup Levels[8]				NV	**0.0012**	NV	NV	0.845	NV	0.49	0.318	0.318
Presidio Trust Freshwater Cleanup Levels[8]				NV	**0.463**	NV	NV	0.845	NV	0.49	0.318	0.318
Presidio Trust Salt Water Cleanup Levels[8]				NV	**0.51**	NV	NV	**0.043**	4.4	1	0.13	0.13
SFPUC Batch Wastewater Discharge[9]				NV	**0.5**	NV	6	NV	NV	NV	NV	NV

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TABLE 7: Volatile Organic Compound Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Notes:

Monitoring well locations are shown on Figure 3.
Screening tables and associated notes are included in Appendix E.
Analytical data provided by Treadwell & Rollo, Inc. on behalf of the Presidio Trust.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria.
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value.
Compounds that were not quantified above the laboratory reporting limit for any of the samples are not represented in this table.
Only screening values for compounds quantified above laboratory reporting limits are represented in this table.
mg/L = milligram per liter.
<x.x = Compound was not identified above laboratory reporting limit of x.x.
-- = Not analyzed or not applicable.
NV = No Value.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, refer to the specific analytical report for the rationale behind the qualification.
C = Presence confirmed, but confirmation concentration differed by more than a factor of two.
Pre-2003 data from monitoring wells 1027MW01, 1027MW03, and 637-26 are not included in this table.

[1] California Code of Regulations, Title 22, Section 64444, Table 64444-A, Primary Maximum Contaminant Levels ("MCLs") Organic Chemicals.
[2] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Tables A and C, Environmental Screening Levels ("ESLs"), Groundwater is a Current or Potential Source of Drinking Water.
[3] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Table F, Environmental Screening Levels, Surface Water Bodies, Marine.
[4] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 2 Effluent Limitations for Toxic Pollutants, Column B: Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.
[5] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table B.1 Effluent Limits, Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.
[6] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 3 Trigger Compounds or Constituents.
[7] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table E.6 Trigger Compounds.
[8] Presidio Trust, 2006, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco, Table 7-6.
[9] San Francisco Public Utilities Commission ("SFPUC"), 2006, Requirements for Batch Wastewater Discharges, 11 July.

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TABLE 8: Polynuclear Aromatic Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Analytical Method	Sample Date	2-Methylnaphthalene	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
1065PZ4A	6.0 to 11.0	SW8310	12/6/2006	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
600GW102	3.0 to 7.0	SW8310	12/2/2003	--	<0.00095	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00095	<0.00013	<0.00095	<0.00048	<0.00019
		SW8310	3/9/2004	--	<0.00098	<0.002	<0.00049	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.00039	<0.00098	<0.00014	<0.00098	<0.00049	<0.0002
		SW8310	4/6/2005	--	<0.00097	<0.0019	<0.00049	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00039	<0.00097	<0.00014	<0.00097	<0.00049	<0.00019
		SW8310	3/15/2006	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
600GW103	3.0 to 6.5	SW8310	12/2/2003	--	**0.0073**	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00095	<0.00013	<0.00095	<0.00048	<0.00019
		SW8310	3/9/2004	--	**0.0073**	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00095	<0.00013	<0.00095	<0.00048	<0.00019
		SW8310	4/11/2005	--	**0.0077**	<0.002	<0.00049	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.00039	<0.00098	<0.00014	<0.00098	<0.00049	<0.0002
		SW8310	3/15/2006	--	**0.0074**	<0.0019	**0.00002 J**	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	**0.00002 J**	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
600GW104	3.0 to 7.0	SW8310	12/2/2003	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
		SW8310	3/9/2004	--	<0.00095	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00095	<0.00013	<0.00095	<0.00048	<0.00019
		SW8310	4/11/2005	--	<0.00098	<0.002	<0.00049	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.00039	<0.00098	<0.00014	<0.00098	<0.00049	<0.0002
		SW8310	3/15/2006	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
600GW106	3.0 to 8.0	SW8310	12/2/2003	--	<0.00095	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00095	<0.00013	<0.00095	<0.00048	<0.00019
		SW8310	3/10/2004	--	<0.00096	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00096	<0.00013	<0.00096	<0.00048	<0.00019
		SW8310	3/29/2005	--	<0.00098	<0.002	<0.00049	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.00039	<0.00098	<0.00014	<0.00098	<0.00049	<0.0002
		SW8310	3/8/2006	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
600GW107	3.0 to 8.0	SW8310	8/13/2003	--	<0.001	<0.002	<0.0005	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	**0.00005 J**	<0.001	<0.00014	<0.001	<0.0005	<0.0002
		SW8310	3/10/2004	--	<0.00097	<0.0019	<0.00049	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00039	<0.00097	<0.00014	<0.00097	<0.00049	<0.00019
		SW8310	4/11/2005	--	<0.00098	<0.002	<0.00049	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.00039	<0.00098	<0.00014	<0.00098	<0.00049	<0.0002
		SW8310	3/20/2006	--	<0.00095	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	**0.00003 J**	<0.00095	<0.00013	<0.00095	<0.00048	<0.00019
600GW108	3.0 to 8.0	SW8310	6/1/2005	--	<0.00096	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00096	<0.00013	<0.00096	<0.00048	<0.00019
		SW8310	9/1/2005	--	<0.00097	<0.0019	<0.00049	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00039	<0.00097	<0.00014	<0.00097	<0.00049	<0.00019
		SW8310	11/30/2005	--	<0.005 U	<0.002 U	<0.00049	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0005 U	<0.00039	<0.001 U	<0.0002 U	<0.005 U	<0.001 U	<0.0002 U
		SW8310	3/7/2006	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
600GW109	3.0 to 8.0	SW8310	12/3/2003	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
		SW8310	3/9/2004	--	<0.001	<0.002	<0.0005	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.001	<0.00014	<0.001	<0.0005	<0.0002
		SW8310	4/1/2005	--	<0.00096	<0.0019	<0.00048	<0.0001	<0.0001	<0.00019	<0.00019	<0.0001	<0.0001	<0.00019	<0.00038	<0.00096	<0.00013	<0.00096	<0.00048	<0.00019
		SW8310	3/14/2006	--	<0.00094	<0.0019	<0.00047	<0.00009	<0.00009	<0.00019	<0.00019	<0.00009	<0.00009	<0.00019	<0.00038	<0.00094	<0.00013	<0.00094	<0.00047	<0.00019
ESLs for Groundwater[1]				0.0021	0.02	0.03	0.00073	0.000027	0.000014	0.000029	0.0001	0.000029	0.00035	0.0000048	0.008	0.0039	0.000048	0.017	0.0046	0.002
ESLs for Marine Surface Water[2]				0.01	0.02	0.03	0.00073	0.000027	0.000014	0.000029	0.0001	0.000049	0.000049	0.000049	0.008	0.03	0.000048	0.021	0.0046	0.002
WQOs for Marine Surface Water[3]				0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
NPDES Trigger Compounds[4,5]				0.005	**0.005**	0.005	0.005	0.0000044	0.000004	0.0000044	0.005	0.0000044	0.0000044	0.0000044	0.005	0.005	0.005	0.005	0.005	0.005
Presidio Trust Surface Water Cleanup Levels[6]				0.000031	1.2	0.000031	9.6	0.0000044	0.0000044	0.0000044	0.000031	0.0000044	0.0000044	0.0000044	0.3	1.3	0.0000044	0.000031	0.000031	0.96
Presidio Trust Salt Water Cleanup Levels[6]				0.000031	**0.000031**	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	**0.000031**	0.000031	0.000031	0.000031	0.000031	0.000031

TABLE 8: Polynuclear Aromatic Hydrocarbon Concentrations in Groundwater (mg/L)
Presidio Monitoring Wells, Doyle Drive Replacement Project

Notes:

Monitoring well locations are shown on Figure 3.
Screening tables and associated notes are included in Appendix E.
Analytical data provided by Treadwell & Rollo, Inc. on behalf of the Presidio Trust.
Values shown in bold indicate the compound was quantified above the laboratory reporting limit.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria.
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value.
mg/L = milligram per liter.
<x.x = Compound was not identified above laboratory reporting limit of x.x.
-- = Not analyzed or not applicable.
NV = No Value.
U = The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, refer to the specific analytical report for the rationale behind the qualification.
Pre-2003 data from monitoring well 637-26 are not included in this table.

[1] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Tables A and C, Environmental Screening Levels ("ESLs"), Groundwater is a Current or Potential Source of Drinking Water.
[2] Marine.
[3] San Francisco Bay Regional Water Quality Control Board, 2007, San Francisco Bay Basin (Region 2) Water Quality Control Plan (Basin Plan), 18 January, Table 3-3, Marine Water Quality Objectives ("WQOs") for Toxic Pollutants for Surface Waters, 24-Hour Average.
[4] San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 3 Trigger Compounds or Constituents.
[5] San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table E.6 Trigger Compounds.
[6] Presidio Trust, 2006, Cleanup Levels for Surface Water, Seeps, and Groundwater at the Presidio of San Francisco, Table 7-6.

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TABLE 9: Miscellaneous Parameters in Groundwater
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	pH	Total Dissolved Solids
		Units	SU	mg/l
1065MW101A	4.5 to 9.5	6/10/2008	**6.59**	--
		9/9/2008	**6.72**	--
		12/2/2008	**6.42**	--
		3/4/2009	**6.8**	--
1065MW102A	4.5 to 7.5	6/10/2008	**6.66**	--
		9/9/2008	**7.13**	--
		12/2/2008	**6.59**	--
		3/4/2009	**6.65**	--
1065MW103A	4.0 to 9.0	6/11/2008	**6.61**	--
		9/12/2008	**6.49**	--
		12/3/2008	**6.03**	--
		3/4/2009	**7.41**	--
1065PZ4A	6.0 to 11.0	9/9/2008	**6.92**	--
		12/2/2008	**6.42**	--
		3/3/2009	**6.7**	--
		6/10/2009	**6.6**	--
1065PZ4B	18.0 to 22.0	3/13/2006	**6.9**	**240**
		3/1/2007	**6.80**	**420**
1065PZ7A	4.0 to 11.0	3/15/2006	**6.29**	**370**
		2/27/2007	**7.10**	**650**
1065PZ7B	17.0 to 24.0	3/15/2006	**6.98**	**650**
		3/1/2007	**6.80**	**840**
207GW03	13.0 to 23.0	3/16/2006	**7.8**	**880**
		6/8/2007	**7.80**	--
231GW06	13.3 to 23.3	3/15/2006	**6.7**	**440**
		6/5/2007	**7.20**	**420**
231GW13	33.5 to 43.5	3/14/2006	**7.52**	**640**
		6/5/2007	**7.80**	**840**
231GW15	14.5 to 19.5	3/14/2006	**7.54**	**510**
		6/7/2007	**7.60**	**470**
231GW16	4.5 to 8.5	3/9/2006	**5.95**	**980**
		6/7/2007	**7.47**	**1130**
		3/7/2008	**7.39**	**1240**
231GW17	25.0 to 35.0	3/15/2006	**6.88**	**480**
		6/7/2007	**7.10**	**410**
231GW18	15.0 to 18.3	3/15/2006	**6.81**	**520**
		6/7/2007	**7.10**	**490**
231GW19	4.5 to 9.3	3/16/2006	**7.01**	**420**
		6/7/2007	**7.00**	**430**
231GW20	30.0 to 40.0	3/15/2006	**7.24**	**240**
		6/5/2007	**7.30**	**90**
		3/11/2008	**6.90**	**98**
231GW200A	unknown	9/9/2008	**6.36**	**400**
		12/3/2008	**6.21**	**470**
		3/3/2009	**6.89**	--
		6/10/2009	**6.6**	--

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TABLE 9: Miscellaneous Parameters in Groundwater
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	pH	Total Dissolved Solids
		Units	SU	mg/l
231GW200B	unknown	9/9/2008	**6.64**	**460**
		12/3/2008	**6.59**	**450**
		3/3/2009	**6.44**	--
		6/10/2009	**6.8**	--
231GW21	4.8 to 8.8	3/8/2006	**6.56**	**580**
		6/7/2007	**6.60**	**550**
		3/7/2008	**6.62**	**640**
		6/11/2008	**6.62**	**630**
231GW22	3.7 to 9.7	3/9/2006	**6.77**	**1170**
		6/7/2007	**6.66**	**830**
		3/7/2008	**6.75**	**800**
		6/11/2008	**6.62**	**820**
231GW24	2.7-7.7	3/16/2006	**7.3**	**470**
		6/7/2007	**7.10**	**430**
231GW25	3.2 to 10.2	3/15/2006	**6.94**	**610**
		6/7/2007	**6.90**	**880**
		3/7/2008	**6.44**	**870**
231GW26	13.7 to 23.7	3/16/2006	**6.99**	**440**
		6/8/2007	**6.80**	--
		3/11/2008	**6.7**	**440**
231GW27	18.7 to 25.7	3/15/2006	**6.81**	**490**
		6/8/2007	**6.90**	--
231GW28	7.2 to 11.2	3/7/2002	**7**	--
		3/15/2006	**6.9**	**370**
		6/5/2007	**6.87**	**410**
231GW30	4.2 to 9.2	3/8/2002	**7.6**	--
		3/9/2006	**7.09**	**720**
		6/7/2007	**7.03**	**610**
231PZ01	2.0 to 10.0	3/14/2006	-- [4]	**1120**
		6/7/2007	**6.80**	--
		3/11/2008	**6.80**	--
231PZ02	2.0 to 9.0	3/10/2006	**8.75**	**960**
		6/7/2007	**7.10**	--
		6/11/2008	**6.99**	**1220**
231PZ03	2.1 to 9.1	3/14/2006	**6.91**	**790**
		6/7/2007	**6.80**	**670**
231PZ04	2.3 to 9.3	3/14/2006	**6.92**	**710**
		6/7/2007	**6.80**	**670**
		3/7/2008	**6.84**	**670**
600GW101R	3.0 to 7.0	12/19/2007	**6.57**	**980**
		3/6/2008	**7.17**	**950**
		6/10/2008	**7.01**	**1130**
600GW102	3.0 to 7.0	3/15/2006	**6.5**	**1110**
600GW103	3.0 to 6.5	3/15/2006	**6.6**	**790**
600GW104	3.0 to 7.0	3/15/2006	**6.9**	**510**

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TABLE 9: Miscellaneous Parameters in Groundwater
Presidio Monitoring Wells, Doyle Drive Replacement Project

Monitoring Well ID	Screen Interval (feet bgs)	Sample Date	pH	Total Dissolved Solids
		Units	SU	mg/l
600GW106	3.0 to 8.0	8/21/2007	**6.60**	**540**
		12/19/2007	**6.09**	**450**
		3/4/2008	**6.87**	**400**
		6/12/2008	**6.61**	**410**
600GW107	3.0 to 8.0	3/20/2006	**6.93**	**560**
600GW108	3.0 to 8.0	3/7/2006	**7.64**	**530**
		5/23/2006	**7.06**	**280**
600GW109	3.0 to 8.0	3/14/2006	**6.8**	**620**
610GW102	3.0 to 7.0	8/21/2007	**6.56**	**480**
		12/19/2007	**7.62**	**660**
		3/4/2008	**7.19**	**570**
		6/12/2008	**6.63**	**540**
NPDES Effluent Limitations[1,2]			**6.5-8.5**	NV
SFPUC Batch Wastewater Discharge[3]			**6.0-9.5**	NV

Notes:

Monitoring well locations are shown on Figure 3.
Screening tables and associated notes are included in Appendix E.
Analytical data provided by Treadwell & Rollo, Inc. on behalf of the Presidio Trust.
Analytical results shaded gray indicate that concentrations were greater than or equal to screening criteria (or for pH, outside the acceptable range).
Screening values partially shaded gray indicate that at least one analytical result was greater than or equal to the screening value (or for pH, outside the acceptable range).
pH measured in the field by Treadwell & Rollo, Inc.
Total dissolved solids analyzed by Method E160.1.
SU = Standard Units.
mg/L = milligram per liter.
-- = Not analyzed or not applicable.
NV = No Value.
Pre-2003 data from monitoring wells 637-26 and 637-39R are not included in this table.

1 San Francisco Bay Regional Water Quality Control Board, 2006, Order No. R2-2006-0075, NPDES No. CAG912002, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites, 13 November, Table 2 Effluent Limitations for Toxic Pollutants, Column B: Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

2 San Francisco Bay Regional Water Quality Control Board, 2004, Order No. R2-2004-0055, NPDES No. CAG912003, General Waste Discharge Requirements for: Discharge or Reuse of Extracted and Treated Groundwater Resulting From the Cleanup of Groundwater Polluted by Volatile Organic Compounds, 21 July, Table B.1 Effluent Limits, Discharge to Other Surface Water Areas, Maximum Daily Effluent Limitation.

3 San Francisco Public Utilities Commission ("SFPUC"), 2006, Requirements for Batch Wastewater Discharges, 11 July.

4 Monitoring well 231PZ01 had a pH of 16.73 reported on 3/14/2006. A pH value greater than 14 in groundwater is unlikely; therefore, this value is not included in the summary table.

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