Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

Quarterly Monitoring Report
for July 1 through September 30, 1997
East Baybridge Center
Emeryville and Oakland, California

October 30, 1997
1649.97-002

Prepared for
Catellus Development Corporation
201 Mission Street
San Francisco, California 94105

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

October 31, 1997 1649.97-002

Ms. Susan Hugo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502

Subject: Quarterly Monitoring Report for July 1 through September 30, 1997, East Baybridge Center, Emeryville and Oakland, California

Dear Ms. Hugo:

This report presents the results of quarterly groundwater monitoring by Levine·Fricke·Recon Inc. (LFR), on behalf of Catellus Development Corporation, from July 1 to September 30, 1997, at the Yerba Buena/East Baybridge Center in Emeryville and Oakland, California ("the Site"). This monitoring was conducted in accordance with LFR's "Groundwater Monitoring Plan for the East Baybridge Center, Emeryville and Oakland, California," submitted to the Alameda County Health Care Services Agency (ACHCSA) on December 19, 1994.

A request for case closure for the former Bay Area Warehouse and former Bashland Company sites, located in Area C of the Site, was sent to the ACHCSA on June 3, 1997. We are currently awaiting a decision from ACHCSA and the Regional Water Quality Control Board (RWQCB) regarding case closure for these sites. In accordance with our conversation with you during the week of June 16, 1997, samples were not required, and therefore were not collected, from the two monitoring wells (MW-31 and MW-32) located on these sites during this quarterly period.

If you have any questions or comments concerning this report, please call me.

Sincerely,

Ron Goloubow
Senior Project Geologist

Enclosure

cc: James Adams, Catellus Development
Sumadhu Arigala, Regional Water Quality Control Board

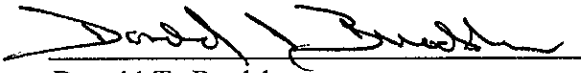
CONTENTS

FIGURES

APPENDIX

CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Levine·Fricke·Recon Inc. California Registered Geologist.



10/30/97

Donald T. Bradshaw
Principal Hydrogeologist
California Registered Geologist (5300)

Date

1.0 INTRODUCTION

This report discusses groundwater monitoring performed by Levine·Fricke·Recon Inc. (LFR) from July 1 to September 30, 1997 ("the reporting quarter") at the Yerba Buena/East Baybridge Center in Emeryville and Oakland, California ("the Site"; Figure 1). LFR is performing groundwater monitoring at the Site and submitting this report on behalf of the Catellus Development Corporation ("Catellus"), and in accordance with LFR's "Groundwater Monitoring Plan for the East Baybridge Center, Emeryville and Oakland, California," submitted to the Alameda County Health Care Services Agency (ACHCSA) on December 19, 1994 (LFR 1994c).

Quarterly monitoring at the Site includes measuring water levels in accessible wells and collecting groundwater samples from selected wells. Monitoring is being performed at the Site to meet the following objectives:

- to monitor volatile organic compound (VOC) concentrations in groundwater
- to assess the effectiveness of the site groundwater extraction system
- to assess possible effects on groundwater quality beneath the Site from soils affected with total petroleum hydrocarbons (TPH) contained on site beneath building pads

A request for case closure for the former Bay Area Warehouse and former Bashland Company sites, located in Area C of the Site (Figure 2), was sent to the ACHCSA on June 3, 1997. In accordance with a conversation with Ms. Susan Hugo of the ACHCSA during the week of June 16, 1997, samples were not required from the two monitoring wells (MW-31R and MW-32R) located on these sites during the reporting quarter, and therefore these samples were not collected.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 Description

The Site covers approximately 51 acres, is partially developed, and is undergoing further development. To aid in organizing environmental investigation, remediation, and monitoring, the Site has been divided into Areas A, B, and C (Figure 2).

Area A and a portion of Area B have been developed for commercial use, including a large retail store, several smaller retail stores, and two large parking areas. Areas north of the parking lots and west of Emery Street are in the process of being developed into apartments. Area C, the area west of Hollis Street, has been developed for commercial use, including the construction of two retail stores and large parking areas. One smaller retail store has yet to be constructed in this portion of the development.

2.2 Background

History and Use. From the early 1900s to approximately 1990, the Site was used by a variety of industrial and commercial businesses. These businesses included warehouse storage of predominantly dry goods and limited quantities of hazardous materials (although a complete record of materials stored is not available, these included oxides and acids); metal foundries; truck maintenance and repair; an auto storage and wrecking yard; a construction yard; and several passenger and freight rail lines.

Environmental Investigations and Results. In September 1989, in preparation for site development, LFR began environmental investigations at the Site on behalf of Catellus. Site investigation and remediation continued for about five years. LFR's Phase I and Phase II investigations indicated that VOCs were present in shallow groundwater beneath the Site. The distribution of VOCs detected in groundwater in Area C of the Site indicates that the VOCs have likely migrated from an off-site source, as discussed in the Regional Water Quality Control Board's (RWQCB's) May 11, 1994 letter to Catellus and others.

In 1992, during site development and in accordance with LFR's soils containment plan (LFR 1992a), approximately 25,000 cubic yards of soil affected by total petroleum hydrocarbons (TPH) were excavated from Area B and contained beneath building pads in Areas A and B. This phase of work was described in LFR's soil remediation report for the Site (LFR 1992b). Underground storage tanks (USTs) were also excavated at several locations across the Site, and monitoring wells were installed at these locations and monitored quarterly, in accordance with agency guidelines (see below). In response to a request from the RWQCB, LFR later prepared a management plan for the contained soils (LFR 1994b), which outlined continued periodic groundwater monitoring to evaluate the possible effect of the contained soils on site groundwater.

Groundwater Monitoring Well Installation and Sampling. Beginning in January 1992, five monitoring wells installed in Areas A and B were sampled quarterly for over a year. In Area C, groundwater monitoring wells LF-31 (on the former Bashland site) and LF-32 (on the former Bay Area Warehouse site) were monitored quarterly until their destruction during site development in June 1994, along with the other wells located west of Hollis Street (except well LF-13). Replacement wells MW-31R and MW-32R were installed in December 1995. At the same time, well MW-12R was installed downgradient from (west of) USTs formerly located along Beach Street, to monitor groundwater quality in that area. Wells MW-10R and MW-34R were also installed at locations shown in Figure 2, to monitor possible on-site migration of VOCs from a known source located north of the property.

Groundwater Extraction and Treatment. To reduce the potential for off-site migration of shallow VOC-affected groundwater, a groundwater extraction and treatment system was installed in Area A (Figure 2), and began operation in August 1994. System operations are detailed in a semiannual self-monitoring report submitted by LFR under separate cover to the East Bay Municipal Utilities District.

3.0 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

On August 21, 1997, depth to water was measured in all accessible on- and off-site wells to the nearest 0.01 foot using an electric water-level sounding probe. Table 1 summarizes the depth-to-water and groundwater elevation data collected. Depth to groundwater in shallow wells (less than 25 feet deep) ranged from 6.82 feet below ground surface (bgs) in well MW-10R to 17.32 in well MW-9.

3.1 Areas A and B

Figure 2 illustrates groundwater elevation contours calculated from water levels measured on August 21, 1997. As illustrated, the direction of shallow groundwater flow beneath Areas A and B of the Site is toward the west-southwest, in the direction of the groundwater extraction wells (EX-3 and EX-4) and the groundwater collection trench. The hydraulic gradient across this portion of the Site is 0.015 foot per foot (ft/ft), as measured between wells MW-2 and MW-9. The direction and gradient are consistent with the groundwater flow direction previously reported at the Site (LFR 1996).

The influence of pumping from the shallow extraction wells and collection trench on the groundwater flow pattern is illustrated in Figure 2 by depressions in the groundwater surface and deflections of contour lines in the vicinity of the extraction wells and collection trench.

3.2 Area C

As illustrated in Figure 2, the direction of shallow groundwater flow beneath Area C of the Site is toward the west. The hydraulic gradient across this portion of the Site is 0.008 ft/ft, as measured between wells MW-31R and MW-12R. The direction and gradient are consistent with the groundwater flow direction previously reported at the Site (LFR 1996).

4.0 GROUNDWATER SAMPLING AND ANALYSIS

LFR personnel collected groundwater samples for chemical analysis on August 21 and 22, 1997. A total of 12 samples were collected from eight shallow groundwater monitoring wells (less than 25 feet bgs; MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, MW-12R, LF-22, and LF-23), two shallow extraction wells (less than 25 feet bgs; EX-3 and EX-4), and the collection trench. A total of four samples were collected from three intermediate-depth wells (30 to 45 feet bgs; MW-6D, MW-7D, and MW-9D) and one deeper well (50 to 65 feet bgs; MW-7Z). Well MW–2 was not sampled this quarter. A laboratory QA/QC duplicate sample was also collected, from well MW-5.

Before groundwater samples were collected, 3 to 4 well volumes of water were purged from each well in accordance with field procedures for quarterly groundwater sampling

described in Appendix A. During purging, indicator parameters such as pH, temperature, and specific conductance were recorded on water-quality sampling sheets.

After collection, samples were submitted to American Environmental Network (AEN), a state-certified laboratory located in Pleasant Hill, California, under strict chain-of-custody protocols. Samples were analyzed for the following compounds:

- Samples from wells MW-3, MW-5 (and duplicate), MW-6, MW-6D, MW-7, MW-7D, MW-7Z, MW-8, MW-9, MW-9D, LF-22, LF-23, EX-3, EX-4, and the groundwater collection trench were analyzed for VOCs using EPA Method 8010.
- Samples from EX-3, EX-4, and the groundwater collection trench were also analyzed for TPH as diesel (TPHd; carbon chain length C_{12} to C_{22}), and TPH as oil (TPHo; carbon chain length C_{22} to C_{36}) in accordance with the Soils Management Plan (LFR 1994b).

Table 2A and 2B summarize sampling and analytical QA/QC for samples collected during the reporting quarter. Analysis results are discussed below.

5.0 GROUNDWATER QUALITY

Table 3 summarizes the analytical results for groundwater samples collected.

5.1 Volatile Organic Compounds

In general, the concentrations of VOCs detected in samples collected during the reporting quarter are within the same order of magnitude as samples previously collected at the Site (Table 3). No VOCs were detected at concentrations above method detection limits in groundwater samples collected from shallow wells LF-22, MW-3, and MW-8, or from deeper wells MW-6D, MW-9D, and MW-7Z. Results of the duplicate sample from MW-5 were similar to results of the primary sample.

1,1-Dichloroethene (1,1-DCE) was detected in samples collected from four shallow wells at concentrations ranging from 0.019 parts per million (ppm; MW-5) to 0.250 ppm (MW-7) and at concentrations of 0.075 ppm, 0.087 ppm, and 0.073 ppm in samples from shallow extraction wells EX-3 and EX-4 and the collection trench, respectively. 1,1-DCE was detected in samples collected from one of the deeper wells, MW-7D, at a concentration of 0.0083 ppm.

Trichloroethene (TCE) was detected in samples collected from two shallow monitoring wells, at concentrations of 0.0006 ppm (MW-5) and 0.0013 ppm (LF-23).

Tetrachloroethene (PCE) was detected in samples from shallow monitoring well MW-5 (0.0026 ppm) and off-site well LF-23 (0.0025 ppm). Concentrations of PCE were detected in the samples collected from shallow extraction wells EX-3 (0.0053 ppm),

EX-4 (0.007 ppm), and the groundwater collection trench (0.0048 ppm). PCE was not detected in the samples collected from remaining shallow or deeper wells sampled during the current monitoring event.

1,1,1-Trichloroethane (1,1,1-TCA) was detected in samples collected from shallow monitoring wells MW-6, MW-7, and MW-9 at concentrations of 0.019 ppm, 0.013 ppm, and 0.008 ppm, respectively. 1,1,1-TCA was also detected in samples collected from shallow extraction wells EX-3 (0.0073 ppm), EX-4 (0.005 ppm), and the groundwater collection trench (0.007 ppm).

5.2 Total Petroleum Hydrocarbons

TPHd was detected in samples collected from extraction well EX-4 (0.13 ppm) and the collection trench (0.07 ppm).

5.2.1 Former Bashland Company Property

Well LF-31 was replaced by well MW-31R in November 1995. The replacement well was installed within 20 feet of the original well's location. Samples are collected from this well to monitor groundwater quality in the vicinity of a UST formerly located at the former Bashland property. This well was not sampled this quarter pending a response to a request for case closure that was submitted to the ACHA on June 3, 1997, as discussed in a telephone conversation with Ms. Susan Hugo during the week of June 16, 1997.

5.2.2 Former Bay Area Warehouse Property

Well LF-32 was replaced by well MW-32R in November 1995. The location of MW-32R was selected based on survey information, and is less than 20 feet from the former location of LF-32. Samples are collected from this well to monitor groundwater quality in the vicinity of a UST formerly located at the former Bay Area Warehouse property. This well was not sampled this quarter pending a response to a request for case closure that was submitted to the ACHA on June 3, 1997, as discussed in a telephone conversation with Ms. Susan Hugo during the week of June 16, 1997.

6.0 SUMMARY

The groundwater gradient and flow direction measured in August 1997 are consistent with the groundwater flow direction previously reported for the Site (LFR 1997). Analytical results for groundwater samples collected in August 1997 are similar to results previously reported for the Site (Table 3). Results indicate that the plume of VOC-affected groundwater likely extends to the north between wells MW-3 and MW-6 and to the south between wells MW-7 and MW-8. The plume extends approximately

800 feet southwest (downgradient) from well MW-6 toward the extraction wells and collection trench, and is approximately 300 feet wide.

7.0 ACTIVITIES PROPOSED FROM JULY TO SEPTEMBER 1997

Groundwater monitoring planned for October through December 1997 includes water-level measurements and quarterly groundwater sampling, as summarized in Table 4. LFR anticipates submitting its next quarterly monitoring report to the ACHCSA by January 31, 1998.

8.0 REFERENCES

LFR. 1992a. Containment Plan for Total Petroleum Hydrocarbon-Affected Soils, Yerba Buena Project Site, Emeryville and Oakland, California. March 10.

———. 1992b. Soil Remediation Activities Report, Former Ransome Property, Yerba Buena Project Site, Emeryville, California. March 21.

———. 1994a. Groundwater Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California. March 19.

———. 1994b. Soils Management Plan for Petroleum Hydrocarbon-Affected Soils, Yerba Buena/East Baybridge Center, Emeryville and Oakland, California. November 30.

———. 1994c. Groundwater Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California. December 19.

———. 1997. Quarterly Monitoring Report for April 1 through June 30, 1997, East Baybridge Center, Emeryville and Oakland, California. July 31.

Table 1
Well Construction and Groundwater Elevation Data
East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
Shallow Wells						
MW-1	27.47	30	15-30	12-Sep-94	14.88	12.59
				30-Nov-94	14.61	12.86
				16-Feb-95	14.73	12.74
				08-May-95	14.55	12.92
				30-Aug-95	14.62	12.85
				19-Dec-95	13.38	14.09
				26-Feb-96	14.27	13.20
				29-Apr-96	14.69	12.78
				03-Sep-96	14.70	12.77
				13-Dec-96	(4)	
MW-2	37.23	18	8-18	12-Sep-94	8.00	29.23
				30-Nov-94	6.84	30.39
				16-Feb-95	6.84	30.39
				08-May-95	7.08	30.15
				30-Aug-95	9.03	28.20
				19-Dec-95	6.95	30.28
				26-Feb-96	6.62	30.61
				29-Apr-96	7.92	29.31
				03-Sep-96	8.10	29.13
				13-Dec-96	6.59	30.64
				18-Feb-97	7.60	29.63
				26-May-97	8.16	29.07
				21-Aug-97	7.06	30.17
MW-3	32.05	25	14-25	12-Sep-94	9.88	22.17
				30-Nov-94	9.96	22.09
				16-Feb-95	9.24	22.81
				08-May-95	9.82	22.23
				30-Aug-95	11.75	20.30
				19-Dec-95	9.65	22.40
				26-Feb-96	8.80	23.25
				29-Apr-96	10.66	21.39
				03-Sep-96	10.51	21.54
				13-Dec-96	9.85	22.20
				18-Feb-97	9.93	22.12
				26-May-97	10.66	21.39
				21-Aug-97	9.80	22.25
MW-4	24.28	25	12-25	12-Sep-94	17.01	7.27
				30-Nov-94	16.15	8.13
				16-Feb-95	16.38	7.90

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Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				08-May-95	16.27	8.01
				30-Aug-95	16.32	7.96
				19-Dec-95	14.52	9.76
				26-Feb-96	13.29	10.99
				29-Apr-96	15.08	9.20
				03-Sep-96	14.70	9.58
				13-Dec-96	13.52	10.76
				18-Feb-97	13.92	10.36
				26-May-97	14.51	9.77
				21-Aug-97	14.40	9.88
MW-5	22.19	21.5	11.5-21.5	12-Sep-94	17.15	5.04
				30-Nov-94	15.94	6.25
				16-Feb-95	16.45	5.74
				08-May-95	16.08	6.11
				30-Aug-95	15.79	6.40
				19-Dec-95	13.81	8.38
				26-Feb-96	12.69	9.50
				29-Apr-96	14.49	7.70
				03-Sep-96	14.11	8.08
				13-Dec-96	12.67	9.52
				18-Feb-97	12.83	9.36
				26-May-97	13.90	8.29
				21-Aug-97	13.71	8.48
MW-6	28.54	21.5	11.5-21.5	12-Sep-94	12.58	15.96
				30-Nov-94	12.75	15.79
				16-Feb-95	12.17	16.37
				08-May-95	12.75	15.79
				30-Aug-95	14.22	14.32
				19-Dec-95	13.17	15.37
				26-Feb-96	11.37	17.17
				29-Apr-96	12.95	15.59
				03-Sep-96	12.67	15.87
				13-Dec-96	11.83	16.71
				18-Feb-97	11.92	16.62
				26-May-97	12.40	16.14
				21-Aug-97	12.31	16.23
MW-7	26.29	23.5	13.5-23.5	12-Sep-94	11.60	14.69
				30-Nov-94	11.53	14.76
				16-Feb-95	10.82	15.47
				08-May-95	11.84	14.45
				30-Aug-95	12.81	13.48
				19-Dec-95	11.77	14.52

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Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				26-Feb-96	10.04	16.25
				29-Apr-96	11.55	14.74
				03-Sep-96	11.32	14.97
				13-Dec-96	10.96	15.33
				18-Feb-97	10.68	15.61
				26-May-97	11.08	15.21
				21-Aug-97	10.92	15.37
MW-8	24.40	20.5	10.5-20.5	12-Sep-94	9.96	14.44
				30-Nov-94	9.96	14.44
				16-Feb-95	9.68	14.72
				08-May-95	10.06	14.34
				30-Aug-95	11.10	13.30
				19-Dec-95	10.22	14.18
				26-Feb-96	8.78	15.62
				29-Apr-96	10.05	14.35
				03-Sep-96	9.67	14.73
				13-Dec-96	9.20	15.20
				18-Feb-97	9.30	15.10
				26-May-97	9.50	14.90
				21-Aug-97	9.06	15.34
MW-9	24.17	26	14-26	12-Sep-94	19.70	4.47
				30-Nov-94	17.65	6.52
				16-Feb-95	18.85	5.32
				08-May-95	19.47	4.70
				30-Aug-95	19.65	4.52
				19-Dec-95	18.43	5.74
				26-Feb-96	16.46	7.71
				29-Apr-96	18.91	5.26
				03-Sep-96	19.12	5.05
				13-Dec-96	16.22	7.95
				18-Feb-97	18.49	5.68
				26-May-97	18.60	5.57
				21-Aug-97	17.32	6.85
MW-10	13.21			19-Dec-95	6.31	6.90
				26-Feb-96	6.09	7.12
				29-Apr-96	6.73	6.48
				03-Sep-96	6.50	6.71
				13-Dec-96	5.86	7.35
				18-Feb-97	6.72	6.49
				26-May-97	6.61	6.60
				21-Aug-97	6.82	6.39

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Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
MW-12	10.42			19-Dec-95	10.69	-0.27
				26-Feb-96	9.66	0.76
				29-Apr-96	10.98	-0.56
				03-Sep-96	11.05	-0.63
				13-Dec-96	10.04	0.38
				18-Feb-97	10.42	0.00
				26-May-97	10.83	-0.41
				21-Aug-97	10.53	-0.11
MW-31	19.14			19-Dec-95	6.92	12.22
				26-Feb-96	6.99	12.15
				29-Apr-96	7.54	11.60
				03-Sep-96	7.55	11.59
				13-Dec-96	6.72	12.42
				18-Feb-97	7.45	11.69
				26-May-97	7.45	11.69
				21-Aug-97	7.06	12.08
MW-32	15.52			19-Dec-95	8.92	6.60
				26-Feb-96	8.48	7.04
				29-Apr-96	9.46	6.06
				03-Sep-96	9.20	6.32
				13-Dec-96	8.35	7.17
				18-Feb-97	9.15	6.37
				26-May-97	9.10	6.42
				21-Aug-97	9.32	6.20
MW-34	11.97			19-Dec-95	11.20	0.77
				26-Feb-96	12.12	-0.15
				29-Apr-96	12.47	-0.50
				03-Sep-96	12.21	-0.24
				13-Dec-96	11.36	0.61
				18-Feb-97	11.74	0.23
				26-May-97	11.74	0.23
				21-Aug-97	11.51	0.46
LF-13	9.19			19-Dec-95	2.86	6.33
				26-Feb-96	2.55	6.64
				29-Apr-96	6.13	3.06
				03-Sep-96	6.58	2.61
				13-Dec-96	1.67	7.52
				18-Feb-97	4.59	4.60
				21-Aug-97	NM	NM
LF-22	17.99	20	10-20	12-Sep-94	11.96	6.03

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Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				30-Nov-94	9.69	8.30
				16-Feb-95	10.45	7.54
				08-May-95	11.40	6.59
				30-Aug-95	13.03	4.96
				19-Dec-95	9.42	8.57
				26-Feb-96	8.84	9.15
				29-Apr-96	10.29	7.70
				03-Sep-96	11.20	6.79
				13-Dec-96	8.18	9.81
				18-Feb-97	9.56	8.43
				26-May-97	10.90	7.09
				21-Aug-97	10.75	7.24
LF-23	17.99	20	10-20	12-Sep-94	12.24	5.75
				30-Nov-94	10.05	7.94
				16-Feb-95	11.10	6.89
				08-May-95	11.88	6.11
				30-Aug-95	13.38	4.61
				19-Dec-95	10.01	7.98
				26-Feb-96	8.97	9.02
				29-Apr-96	10.84	7.15
				03-Sep-96	11.35	6.64
				13-Dec-96	8.47	9.52
				18-Feb-97	9.28	8.71
				26-May-97	10.71	7.28
				21-Aug-97	10.75	7.24
Extraction Wells						
EX-1	23.51	NA	NA	12-Sep-94	24.83	-1.32
(LF-1)				30-Nov-94	19.16	4.35
				08-May-95	23.45	0.06
				30-Aug-95	23.45	0.06
				19-Dec-95	23.50	0.01
				26-Feb-96	18.38	5.13
				29-Apr-96	NM	NM
				03-Sep-96	22.15	1.36
				13-Dec-96	13.38	10.13
				09-Jan-97	10.65	12.86
				18-Feb-97	20.55	2.96
				26-May-97	19.40	4.11
				21-Aug-97	20.70	2.81
EX-2	20.03	NA	NA	12-Sep-94	20.11	-0.08
(LF-2)				30-Nov-94	15.68	4.35
				08-May-95	20.70	-0.67

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East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				30-Aug-95	20.68	-0.65
				19-Dec-95	20.40	-0.37
				26-Feb-96	14.91	5.12
				29-Apr-96	20.47	-0.44
				03-Sep-96	18.80	1.23
				13-Dec-96	NM	NM
				09-Jan-97	10.69	9.34
				18-Feb-97	NM	NM
				26-May-97	23.50	-3.47
				21-Aug-97	23.46	-3.43
EX-3	20.96	24	7.5-24	12-Sep-94	22.33	-1.37
				30-Nov-94	15.50	5.46
				16-Feb-95	17.80	3.16
				08-May-95	19.80	1.16
				30-Aug-95	19.86	1.10
				19-Dec-95	17.00	3.96
				26-Feb-96	15.10	5.86
				29-Apr-96	16.21	4.75
				03-Sep-96	16.65	4.31
				13-Dec-96	12.95	8.01
				18-Feb-97	12.40	8.56
				26-May-97	13.11	7.85
				21-Aug-97	13.15	7.81
EX-4	24.40	25	8-25	12-Sep-94	22.61	1.79
				30-Nov-94	20.70	3.70
				16-Feb-95	20.55	3.85
				08-May-95	20.85	3.55
				30-Aug-95	20.88	3.52
				19-Dec-95	19.41	4.99
				26-Feb-96	20.40	4.00
				29-Apr-96	19.75	4.65
				03-Sep-96	20.65	3.75
				13-Dec-96	18.59	5.81
				18-Feb-97	21.00	3.40
				26-May-97	21.00	3.40
				21-Aug-97	18.67	5.73
Deeper Wells						
MW-6D	28.48	45	32-40	12-Sep-94	11.09	17.39
				30-Nov-94	11.46	17.02
				16-Feb-95	10.67	17.81
				08-May-95	11.58	16.90
				30-Aug-95	12.93	15.55

Table 1
Well Construction and Groundwater Elevation Data
East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				19-Dec-95	13.14	15.34
				26-Feb-96	10.14	18.34
				29-Apr-96	11.57	16.91
				03-Sep-96	11.48	17.00
				13-Dec-96	12.29	16.19
				18-Feb-97	10.75	17.73
				26-May-97	16.50	11.98
				21-Aug-97	10.86	17.62
MW-7D	26.27	40	27-40	12-Sep-94	11.32	14.95
				30-Nov-94	11.30	14.97
				16-Feb-95	11.01	15.26
				08-May-95	11.35	14.92
				30-Aug-95	12.65	13.62
				19-Dec-95	11.61	14.66
				26-Feb-96	9.84	16.43
				29-Apr-96	11.38	14.89
				03-Sep-96	11.18	15.09
				13-Dec-96	10.72	15.55
				18-Feb-97	10.45	15.82
				26-May-97	10.90	15.37
				21-Aug-97	10.75	15.52
MW-9D	24.17	45	32-45	12-Sep-94	18.38	5.79
				30-Nov-94	16.35	7.82
				16-Feb-95	16.43	7.74
				08-May-95	16.96	7.21
				30-Aug-95	18.28	5.89
				19-Dec-95	16.50	7.67
				26-Feb-96	14.68	9.49
				29-Apr-96	16.85	7.32
				03-Sep-96	17.61	6.56
				13-Dec-96	15.23	8.94
				18-Feb-97	15.97	8.20
				26-May-97	17.14	7.03
				21-Aug-97	17.22	6.95
Deep Well						
MW-7Z	25.96	65	50-65	12-Sep-94	11.78	14.18
				30-Nov-94	10.76	15.20
				16-Feb-95	9.16	16.80
				08-May-95	9.85	16.11
				30-Aug-95	11.85	14.11
				19-Dec-95	10.89	15.07
				26-Feb-96	8.62	17.34

Table 1
Well Construction and Groundwater Elevation Data
East Baybridge Center
Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				29-Apr-96	9.91	16.05
				03-Sep-96	11.01	14.95
				13-Dec-96	10.31	15.65
				18-Feb-97	9.25	16.71
				26-May-97	13.00	12.96
				21-Aug-97	11.10	14.86

Data entered by TGL. Proofed by JCL.

Notes

(1) Well elevation is in feet mean sea level as surveyed by Nolte and Associates in August 1994.
(2) Well depth and screened interval are in feet below ground surface as measured at the time of well installation.
(3) Water level elevation is in feet mean sea level.
(4) Monitoring Well MW-1 was abandoned in December 1996.
NA Not applicable, well associated with extraction trench.
NM Water level not measured.

Table 2A: Summary of Sampling Q/QC
East Baybridge Center, Emeryville and Oakland, California

Site Name:	Site Address:	Monitoring Period Covered:
East Baybridge	East Baybridge Center Emeryville and Oakland, CA	July 1 through September 30, 1997
Sampling performed by:	Jeff Rodgers	
Firm name:	Levine-Fricke-Recon	
Firm address:	1900 Powell St., 12th Floor	
Firm contact:	Ron Goloubow	
Firm phone number:	(510) 652-4500	
Were chain-of-custody forms completed for all samples?		☑ Yes ☐ No
Were field parameters stabilize prior to taking sample?		☑ Yes ☐ No
For VOCs samples, was there zero head space in sample containers?		☑ Yes ☐ No
Were samples preserved according to analytical method?		☑ Yes ☐ No
Were the required field QA/QC samples taken?		☑ Yes ☐ No
For any questions above answered with "No", please provide an explanation:		

Table 2B: Summary of Analytical QA/QC
East Baybridge Center, Emeryville and Oakland, California

Site Name:	Site Address:	Monitoring Period Covered:
East Baybridge	East Baybridge Center Emeryville and Oakland CA	01-July-97 through 30-Sep-97

Analysis performed by:

Lab name:	American Environmental Network
Lab address:	3440 Vincent Road, Pleasant Hill, CA 94523
Lab contact:	Robin Byars
Lab phone number:	510-930-9090

Analytical method used: (check applicable methods)

- ☐ Total Dissolved Solids by EPA Method _____
- ☐ Bioassay 96-hr % survival by Standard Method_____
- ☐ Turbidity (NTU) by EPA Method _____
- ☐ Dissolved Oxygen (mg/l and % saturation) by Standard Method
- ☐ Hardness (mg/l CaCO3) by EPA Method _____
- ☐ Arsenic by EPA Method _____
- ☐ Cadmium by EPA Method _____
- ☐ Chromium (total) by EPA Method _____
- ☐ Chromium (hexavalent) EPA Method _____
- ☐ Copper by EPA Method _____
- ☐ Lead by EPA Method _____
- ☐ Mercury by EPA Method_____
- ☐ Nickel by EPA Method _____
- ☐ Selenium by EPA Method_____
- ☐ Silver by EPA Method _____
- ☐ Zinc by EPA Method _____
- ☒ Halogenated Volatile Organics by EPA Method 601 or 8010
- ☐ Aromatic and Unsaturated Volatile Organics by EPA 602 or 8020
- ☐ Volatile Organics by EPA Method 624 or 8240
- ☐ Semivolatile Organics by EPA Method 625 or 8270
- ☐ EDB and DBCP by EPA Method 504
- ☐ TPH gasoline by EPA Method 8015 modified
- ☒ TPH diesel by EPA Method 8015 modified
- ☐ Chlorinated Hydrocarbons by EPA Method 8120

Is the lab state-certified for the above analytical method(s)?	☑ Yes ☐ No
Was analysis performed according to standard methods?	☑ Yes ☐ No
Were sample holding times met?	☑ Yes ☐ No
Were all reported analytical results values above MDLs?	☑ Yes ☐ No
Were QA/QC samples (i.e. blanks, field replicates, spikes, and surrogates) analyzed in accordance and consistent with the analytical method?	☑ Yes ☐ No
Did QA/QC results meet all acceptance criteria?	☑ Yes ☐ No
Are QA/QC results and acceptance criteria on file?	☑ Yes ☐ No

For any questions above answered with "No", please provide an explanation: *

* The explanation should describe any modifications to standard methods and whether approved by Board staff, and describe corrective actions taken in response to any QA/QC results that fall outside acceptance criteria.

Table 3
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
Shallow Wells (20 to 25 feet below grade)																
MW-1		13-Sep-94	AEN	<0.005	0.30	<0.0005	<0.0005	<0.0005	<0 0005	NA	NA	NA	NA	NA	NA	NA
		30-Nov-94	AEN	NA	0 10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005
		17-Feb-95	AEN	<0.05	0.08	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
		09-May-95	AEN	<0.05	0.20	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
		31-Aug-95	AEN	<0.05	0 30	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
		27-Dec-95	AEN	<0 05	0.10	<0.0005	<0.0005	<0 0005	<0 002	NA	NA	NA	NA	NA	NA	NA
		27-Feb-96	AEN	<0.05	0.18	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
		01-May-96	AEN	<0.05	0.10	<0.0005	<0.0005	<0.0005	<0 002	NA	NA	NA	NA	NA	NA	NA
		04-Sep-96	AEN	<0.05	0.25	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-2		01-Dec-94	AEN	7.10	NA	0.065	<0.01	0.13	0.47	NA	NA	NA	NA	NA	NA	NA
		17-Feb-95	AEN	3.50	0 30	0.045	0 005	0.11	0.35	NA	NA	NA	NA	NA	NA	NA
		09-May-95	AEN	3 50	0 20	0.025	0.009	0.085	0.25	NA	NA	NA	NA	NA	NA	NA
		31-Aug-95	AEN	0.90	0.20	0.011	<0.0005	0.032	0.072	NA	NA	NA	NA	NA	NA	NA
		20-Dec-95	AEN	2.60	<0.05	0.016	0.002	0 079	0.24	NA	NA	NA	NA	NA	NA	NA
		27-Feb-96	AEN	4.10	0.20	0.076	0.0095	0.21	0.62	NA	NA	NA	NA	NA	NA	NA
		01-May-96	AEN	2.40	0.23	0.039	0.0047	0.098	0.26	NA	NA	NA	NA	NA	NA	NA
		04-Sep-96	AEN	0.54	0.22	0.0024	<0.0005	0.018	0.045	NA	NA	NA	NA	NA	NA	NA
		17-Dec-96	A2AC	0.776	<0.010	0.004	0 009	0.011	0.019	NA	NA	NA	NA	NA	NA	NA
		18-Feb-97	AEN	1.2	0.24	0.015	0.0009	0.057	0 140	NA	NA	NA	NA	NA	NA	NA
		15-May-97	AEN	0.46	0.11	0 0033	<0 0005	0.035	0 059	NA	NA	NA	NA	NA	NA	NA
MW-3		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005
		01-Dec-94	AEN	NA	0.07	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		08-May-95	AEN	NA	0.07	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005
		20-Dec-95	AEN	NA	<0.05	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005
		04-Sep-96	AEN	NA	0.11	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005
		17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0 001	<0.001
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	dup	18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005
		15-May-97	AEN	NA	0.08	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005

Table 3
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
MW-4		01-Dec-94	AEN	NA	0 09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08-May-95	AEN	NA	0 10	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0 004	<0.0005	<0.0005
		20-Dec-95	AEN	NA	0.09	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.001	<0.0005	<0.0005
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0022	<0.0005	<0.0005
		04-Sep-96	AEN	NA	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	(27)	17-Dec-96	A2AC	NA	<0 010	NA	NA	NA	NA	<0.001	<0.001	<0.001	0.002	0.001	<0.001	0.001
		15-May-97	AEN	NA	0.45	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	<0 0005	<0.0005
MW-5		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.001	0.0007	0.003	0.002	<0.0005	<0 0005
		01-Dec-94	AEN	NA	0.05	NA	NA	NA	NA	<0.0005	0.0007	0.0005	0.004	0.003	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.001	0.002	0.008	0.003	<0.0005	<0.0005
		08-May-95	AEN	NA	0.09	NA	NA	NA	NA	0.0005	0.002	0 002	0.016	0.005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	0.0007	0.002	0.002	0.013	0.004	<0 0005	<0 0005
		20-Dec-95	AEN	NA	0.1	NA	NA	NA	NA	<0.0005	0.001	0.0008	0.009	0 002	<0 0005	<0.0005
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0 0024	0 010	0.0029	<0 0005	<0 0005
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	0 001	0.0051	0.0021	<0.0005	<0.0005
		04-Sep-96	AEN	NA	0.24	NA	NA	NA	NA	<0.0005	<0 0005	0.0010	0.0051	0.0022	<0.0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	0.002	0.005	0.002	<0 001	<0.001
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0009	0 0079	0.002	<0.0005	<0.0005
		15-May-97	AEN	NA	0.07	NA	NA	NA	NA	0.0006	0 0005	0.0021	0 019	0.0039	<0.0005	<0.0005
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	0.0006	<0.0005	0.0026	0 019	0.0041	<0.0005	<0 0005
duplicate		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	0.0005	<0.0005	0.0024	0.015	0.0038	<0.0005	<0.0005
MW-6	(2)	13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	0.0005	0.041	<0.0005	0 280	0.005	0 001	0.001
	(6)	01-Dec-94	AEN	NA	0.08	NA	NA	NA	NA	0.0006	0.041	<0.0005	0 300	0.004	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.039	<0.003	0.280	0.003	<0.003	<0.003
duplicate		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0 003	0.045	<0.003	0.290	0.004	<0.003	<0.003
		09-May-95	AEN	NA	0.20	NA	NA	NA	NA	<0.003	0.031	<0.003	0.260	0.003	<0.003	<0.003
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.032	<0.003	0.270	0.004	<0.003	<0.003
		28-Dec-95	AEN	NA	0 1	NA	NA	NA	NA	<0.003	0.040	<0.003	0 280	0.004	<0.003	<0.003
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.005	0.031	<0.005	0.270	<0.005	<0.005	<0.005
		01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.026	<0.003	<0.200	0.003	<0.003	<0.003
		04-Sep-96	AEN	NA	0.17	NA	NA	NA	NA	<0.003	0.033	<0.003	0.330	0.005	<0.003	<0.003
		17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	0.010	0.060	<0.001	0.310	<0.001	<0.001	<0.001
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.029	<0.003	0.260	0.003	<0.003	<0.003
		15-May-97	AEN	NA	0.07	NA	NA	NA	NA	<0.003	0.018	<0.003	0 200	0.004	<0.003	<0.003

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Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0 003	0 019	<0.003	0.230	0.003	<0.003	<0.003
MW-7		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0 017	<0.0005	0 160	0 003	0.0009	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0 170	0.003	<0 0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.011	<0.003	0 120	<0 003	<0 003	<0 003
		09-May-95	AEN	NA	0.09	NA	NA	NA	NA	<0.0005	0.015	<0.0005	0 180	0.004	<0.0005	<0.0005
		30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.012	<0.003	0 140	0.003	<0 003	<0.003
		20-Dec-95	AEN	NA	<0.05	NA	NA	NA	NA	<0 003	0.011	<0.003	0 170	<0 003	<0 003	<0.003
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0 003	0.018	<0.003	0.210	0.0035	<0 003	<0.003
duplicate		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.017	<0.003	0.210	0.003	<0 003	<0.003
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.016	<0.003	0 220	0.003	<0.003	<0.003
		03-Sep-96	AEN	NA	0.11	NA	NA	NA	NA	<0.003	0.021	<0.003	0.290	0.004	<0.003	<0.003
		17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	<0.001	0.050	<0.001	0 280	<0.001	<0.001	<0 001
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.007	<0.003	0 150	<0.003	<0.003	<0 003
		15-May-97	AEN	NA	<0.05	NA	NA	NA	NA	<0.003	0.014	<0.003	0.230	0.005	<0.003	<0.003
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.013	<0.003	0.250	0.005	<0.003	<0.003
MW-8	(3)	13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	<0 0005	<0.0005
		02-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0 0005
		04-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0 001	<0.001	<0.001	<0.001	<0.001	<0 001
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
duplicate		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.017	<0 0005	0.120	0.0005	0.006	<0.0005
duplicate		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.015	<0.0005	0.120	0.0005	0.009	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.150	0.0005	<0.0005	<0.0005
duplicate		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.160	0.0005	<0.0005	<0.0005

Table 3
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.014	<0.003	0.120	<0.003	<0 003	<0.003
		08-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.013	<0 0005	0.110	0.005	<0 0005	<0 0005
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.013	<0 003	0.130	0.004	<0 003	<0.003
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.009	<0 003	0.092	<0.003	<0 003	<0.003
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0099	<0.0005	0.087	0.0035	<0 0005	<0.0005
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0083	<0.0005	0.099	0.0030	<0 0005	<0.0005
duplicate		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0078	<0.0005	0.097	0.0026	<0 0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	0 005	<0 001	0.059	0 002	<0 001	<0.001
	dup	17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	0.006	<0.001	0.064	0.002	<0.001	<0.001
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.008	<0.0005	0.087	0.0023	<0.0005	<0 0005
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0056	<0.0005	0.063	0.0025	<0 0005	<0.0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0080	<0.0005	0.067	0.0022	<0.0005	<0 0005
MW-10R		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	0.910	<0.005	0.007	<0.005	<0 005	<0.005	0 222
	(19)	29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0.650	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	(28)	17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	0.610	<0.001	<0.001	<0.001	<0.001	<0.001	0.160
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	0.500	<0 005	<0.005	<0.005	<0 005	<0.005	0.156
MW-12R		27-Dec-95	AEN	NA	0.2	NA	NA	NA	NA	0.003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002
		27-Feb-96	AEN	<0 05	0.36	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
	(20)	30-Apr-96	AEN	<0 05	0.23	<0.0005	<0.0005	<0 0005	<0 002	0.0025	<0.0005	<0.0005	<0.0005	0.0024	<0 0005	<0.0005
		17-Dec-96	A2AC	NA	<0 010	NA	NA	NA	NA	0.001	<0.001	<0.001	<0 001	0.005	<0.001	0 004
		15-May-97	AEN	NA	0.29	NA	NA	NA	NA	0.0009	<0 0005	<0.0005	<0.0005	0 0059	<0.0005	0.0007
MW-31R		27-Dec-95	AEN	NA	0.3	NA	NA	NA	NA	0 018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.009
		27-Feb-96	AEN	<0.05	0.37	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
	(21)	30-Apr-96	AEN	NA	0.19	NA	NA	NA	NA	0.015	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		05-Sep-96	AEN	NA	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	0.004
		19-Feb-97	AEN	NA	0 49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	(15)	22-Dec-95	AEN	NA	0.2	NA	NA	NA	NA	0.058	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	0.055
		27-Feb-96	AEN	<0.05	0.26	<0.0005	<0.0005	<0 0005	<0.002	NA	NA	NA	NA	NA	NA	NA
	(22)	01-May-96	AEN	NA	0.17	NA	NA	NA	NA	0.074	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		05-Sep-96	AEN	NA	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	(31)	17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	0.110	<0 001	<0.001	<0.001	<0.001	<0.001	0 100
		19-Feb-97	AEN	NA	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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East Baybridge Center
Emeryville and Oakland, California
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Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
MW-34R		27-Dec-95	AEN	NA	0.3	NA	NA	NA	NA	0 009	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0 0005
	(23)	29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0 035	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		17-Dec-96	AEN	NA	NA	NA	NA	NA	NA	0.018	<0.001	<0.001	0.002	<0.001	<0.001	0.005
	40	15-May-97	AEN	NA	NA	NA	NA	NA	NA	0 0028	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0008
LF-13		09-May-95	AEN	NA	NA	NA	NA	NA	NA	0.006	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	0.006	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0 0031	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
duplicate		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0.0031	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005
	(38)	17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
LF-22		12-Jul-91	ANA	NA	NA	NA	NA	NA	NA	0 0007	0.012	0.0017	0 053	0.0063	0.0016	<0.0005
		07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.009	0.0037	0.041	0.0054	0.0011	<0.0005
		16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0026	0.0018	0.015	0.0021	<0.0005	<0 0005
	(1)	23-Jul-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0034	0.0014	0.027	0.0052	<0 0005	<0.0005
		20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	0.0008	0.0013	0.0007	0.014	0 004	<0 0005	<0.0005
		25-May-93	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0.0006	0.0061	0 0024	<0.0005	<0.0005
		13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	0.0007	0.001	0.0009	0.0077	0.0033	<0.0005	<0.0005
	(4)	13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	0.004	<0.0005	0 008	0.003	0.001	0 0007	<0.0005
		01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0006	0.0009	<0.0005	<0.0005
		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	0 0006	0.0007	0.001	<0.0005	<0.0005
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0007	0.0007	<0.0005	<0.0005
duplicate		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0005	0.0006	<0 0005	<0.0005
	(11)	31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0 0005	0.001	0.001	<0.0005	<0.0005
duplicate	(11)	31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.001	0.001	<0.0005	<0.0005
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	(17)	27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	(24)	29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		04-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0 001	<0.001	<0.001	<0 001	<0.001
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-23		12-Jul-91	ANA	NA	NA	NA	NA	NA	NA	0.0039	0.0009	0.027	0.0012	0.011	0.0009	<0.0005
		07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	0.007	0.0023	0.056	0.0034	0.012	0.0013	<0.0005

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Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
		16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	0.0036	0 0007	0.020	0.0044	0.0044	0.0011	<0 0005
		23-Jul-92	ANA	NA	NA	NA	NA	NA	NA	0.0038	0 0013	0 029	0.0061	0 0044	0.0014	<0 0005
		20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	0.0033	0 0005	0.023	0.0047	0.002	0.0015	<0 0005
		25-May-93	ANA	NA	NA	NA	NA	NA	NA	0.0042	0 0007	0.016	0.0035	0.0017	0.0019	<0.0005
		13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	0.0081	0 0015	0.018	0.0074	0.0033	0.0051	<0.0005
		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	0 0006	0.002	0.003	0.0007	<0.0005
	(7)	01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	0.004	<0.0005	0.008	0.0006	<0.0005	<0.0005	0.002
	(8)	17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	0.003	<0.0005	0.006	<0 0005	<0 0005	<0.0005	0.002
	(9)	09-May-95	AEN	NA	NA	NA	NA	NA	NA	0.002	<0.0005	0.005	<0.0005	<0.0005	<0.0005	0.001
	(10)	31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	0.002	<0.0005	0.007	0.0007	0.0007	<0.0005	0.001
	(14)	20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	0.001	<0.0005	0 006	<0.0005	<0.0005	<0.0005	<0.0005
	(18)	27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	0.0008	<0.0005	0.0038	<0.0005	<0.0005	<0.0005	<0.0005
	(25)	29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0.0006	<0.0005	0 0028	<0.0005	<0.0005	<0.0005	<0 0005
	(26)	04-Sep-96	AEN	NA	NA	NA	NA	NA	NA	0.0014	<0.0005	0.0032	<0.0005	<0.0005	<0.0005	<0 0005
	(35)	17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001
	(39)	18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	0.0007	<0.0005	0 0017	<0.0005	<0.0005	<0.0005	<0 0005
	(41)	16-May-97	AEN	NA	NA	NA	NA	NA	NA	0.0014	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	0.0012
	(43)	22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	0.0013	<0.0005	0.0025	<0.0005	<0.0005	<0.0005	0.0009
Shallow Extraction Wells (20 to 30 feet below grade)																
EX-3		14-Sep-94	AEN	NA	NA	NA	NA	NA	NA	0.004	0.014	0 042	0 100	0.005	0 001	0.008
		02-Dec-94	AEN	NA	0.10	NA	NA	NA	NA	0.004	0.015	0.045	0.140	0.005	<0 0005	<0 0005
		17-Feb-95	AEN	NA	<0.05	NA	NA	NA	NA	0.003	0.014	0 037	0.096	0.005	<0.0005	<0.0005
		09-May-95	AEN	NA	0.10	NA	NA	NA	NA	0.003	0.012	0.031	0.120	0.005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	0.10	NA	NA	NA	NA	<0.003	0.012	0.027	0.120	0.005	<0.003	<0 003
		28-Dec-95	AEN	NA	0.10	NA	NA	NA	NA	<0.003	0.009	0.036	0.160	0.004	<0.003	<0 003
		27-Feb-96	AEN	NA	0 12	NA	NA	NA	NA	<0.003	0 0077	0 030	0 120	0.0032	<0.003	<0.003
		30-Apr-96	AEN	NA	0.08	NA	NA	NA	NA	<0.003	0 008	0 026	0.120	0.003	<0.003	<0.003
		05-Sep-96	AEN	NA	0.14	NA	NA	NA	NA	<0 003	0.008	0.029	0.140	0.004	<0.003	<0.003
		17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	0.006	0.010	0.020	0.098	0.003	<0.001	0 004
		19-Feb-97	AEN	NA	<0 05	NA	NA	NA	NA	<0.003	0.006	<0.003	0.070	<0.003	<0.003	<0.003
		15-May-97	AEN	NA	0.12	NA	NA	NA	NA	<0.0005	0.007	0.0048	0.082	0.0025	<0 0005	<0.0005
	(42)	21-Aug-97	AEN	NA	<0.05	NA	NA	NA	NA	<0 0005	0.0073	0 0053	0.075	0 0022	<0.0005	<0.0005
EX-4		14-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0 025	0.010	0.220	0.006	0.001	<0.0005
		02-Dec-94	AEN	NA	0.09	NA	NA	NA	NA	<0 0005	0.020	0.011	0.240	0.006	<0.0005	<0.0005

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Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
		17-Feb-95	AEN	NA	<0.05	NA	NA	NA	NA	<0.003	0.017	0.011	0.210	0.004	<0.003	<0.003
		09-May-95	AEN	NA	0.10	NA	NA	NA	NA	<0 003	0.020	0.011	0.210	0 004	<0.003	<0.003
		31-Aug-95	AEN	NA	0.20	NA	NA	NA	NA	<0.003	0.016	0.010	0.200	0.005	<0.003	<0.003
		28-Dec-95	AEN	NA	0.10	NA	NA	NA	NA	<0.003	0.014	0.014	0.210	0.004	<0.003	<0.003
		27-Feb-96	AEN	NA	0.13	NA	NA	NA	NA	<0.0005	0.0086	0.012	0.150	<0.0005	<0.0005	<0.0005
		30-Apr-96	AEN	NA	0.06	NA	NA	NA	NA	<0.003	0.010	0.010	0.150	<0.003	<0.003	<0.003
		05-Sep-96	AEN	NA	0.14	NA	NA	NA	NA	<0.003	0.008	0.009	0.140	0 003	<0 003	<0.003
		17-Dec-96	A2AC	NA	0.334	NA	NA	NA	NA	0.001	0 009	0.010	0.090	0.003	<0.001	0.004
		19-Feb-97	AEN	NA	0 11	NA	NA	NA	NA	<0.003	0 005	0.005	0.097	<0.003	<0.003	<0.003
		15-May-97	AEN	NA	0 17	NA	NA	NA	NA	<0.003	0.006	0.008	0.110	0.003	<0.003	<0.003
		21-Aug-97	AEN	NA	0.13	NA	NA	NA	NA	<0.003	0.005	0.007	0.087	<0.003	<0 003	<0.003
EXTR		27-Feb-96	AEN	NA	0.15	NA	NA	NA	NA	<0.0005	0.0069	0.0013	0.066	0 0028	<0.0005	<0.0005
		30-Apr-96	AEN	NA	0 11	NA	NA	NA	NA	<0.0005	0.0055	0.0012	0.063	0.0024	<0.0005	<0.0005
		05-Sep-96	AEN	NA	0 12	NA	NA	NA	NA	<0.0005	0.0082	0.0031	0.099	0.0031	<0.0005	<0.0005
		17-Dec-96	A2AC	NA	1.520	NA	NA	NA	NA	0 001	0.008	0.009	0.074	0.002	<0.001	0.004
		19-Feb-97	AEN	NA	0 13	NA	NA	NA	NA	<0 0005	0.0034	0 0021	0.059	0.0016	<0.0005	<0.0005
		15-May-97	AEN	NA	0 08	NA	NA	NA	NA	<0 0005	0.0041	0 0018	0 060	0.0021	<0 0005	0.0006
		21-Aug-97	AEN	NA	0 07	NA	NA	NA	NA	<0.0005	0.007	0.0048	0 073	0.0023	<0 0005	<0.0005
Deeper Wells (40 to 45 feet below grade)																
MW-6D		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	0.003	<0.0005	0 0005	<0.0005
		01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0 0005	<0 0005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0 001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7D		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0 003	<0.0005	<0.0005	<0 0005

Table 3
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	0.003	<0.0005	<0 0005	<0.0005
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.002	<0.0005	<0 0005	<0.0005
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
duplicate		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0 001	0.008	<0.001	<0.001	<0.001
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0 0025	0 0009	<0 0005	0.0081	<0.0005	<0 0005	<0.0005
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	<0.0005	<0.0005	0 0023	<0.0005	<0.0005	<0.0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	<0.0005	<0.0005	0 0083	<0.0005	<0 0005	<0.0005
MW-9D		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0 0005	<0 0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		08-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0 0005
		26-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0 0005	<0 0005
		01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	0 001	<0.001	<0.001	<0.001
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Deep Well (65 feet below grade)																
MW-7Z		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005

Table 3
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005
	(36)	17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	0.001	<0.001	<0.001	<0.001	<0 001	<0.001	0.004
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trip Blanks																
		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		10-May-95	AEN	NA	NA	<0.0005	<0.0005	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		31-Aug-95	AEN	NA	NA	<0.0005	<0.0005	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005
		27-Feb-96	AEN	<0.05	NA	<0.0005	<0 0005	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Field Blanks																
LF-22		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-22		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-22-FB		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7D-FB		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7-FB		26-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005
MW-9-FB		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005
LF-22-FB	(37)	17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0.001
MW-8-FB		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-10R-FB		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-23-FB		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005

Data entered by TGL. Data proofed by JCK and QA/QC by REG.

NOTES:

Key to abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Table 3
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE

TPHd = Total petroleum hydrocarbons as diesel
TPHo = Total petroleum hydrocarbons as oil
TCE = Trichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
PCE = Tetrachloroethene
1,1-DCE = 1,1-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
AEN = American Environmental Network in Pleasant Hill, California
ANA = Inchcape Testing Anametrix, Inc., in San Jose, California
A2AC - Aqua Air (A2) Analytical Corporation
NA = parameter not analyzed

Notes:
(1) 0.00081 ppm vinyl chloride .
(2) 0.002 ppm chloroform .
(3) 0.0008 ppm chloroform .
(4) 0.002 ppm chloroform .
(6) 0.002 ppm chloroform .
(7) 0.0002 ppm chloroform
(8) 0.002 ppm chloroform .
(9) 0.014 ppm chloroform .
(10) Chloroform = 0.004
(11) Chloroform = 0.0006.
(14) Chloroform = 0.006.
(15) Bromodichloroethane = 0.010 ppm, vinyl chloride = 0.017 .
(17) Chloroform = 0 0012.
(18) Chloroform = 0.010, Bromodichlomethane = 0.0011.
(19) 1,2-DCE = 0.194.
(20) 1,2-DCE = 0.0024.
(21) 1,2-DCE = 0.011.
(22) Vinyl chloride = 0.025, 1,2-DCE = 0.087, Bromodichioromethane = 0.004.
(23) 1,1,2-Trichlorotrifluoroethane = 0.0021.
(24) Chloroform = 0 0015.
(25) Bromodichloromethane = 0 001, Chloroform = 0 013.

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Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE

(26) Chloroform=0.002

(27) Methylene Chloride-0.001 .

(28) Chloroform-0.030 .

(31) Methylene Chloride-0.010.

(35) Chloroform-0.002

(36) Chloroform-0.001

(37) Chloroform-0.001.

(38) Methylene Chloride-0 001

(39) Chloroform-0.0007.

(40) Bromodichloromethane-0.0014, Chloroform-0.043

(41) Chloroform-0.0009.

(42) TPH as Oil .0003

(43) Chloroform-0.0009

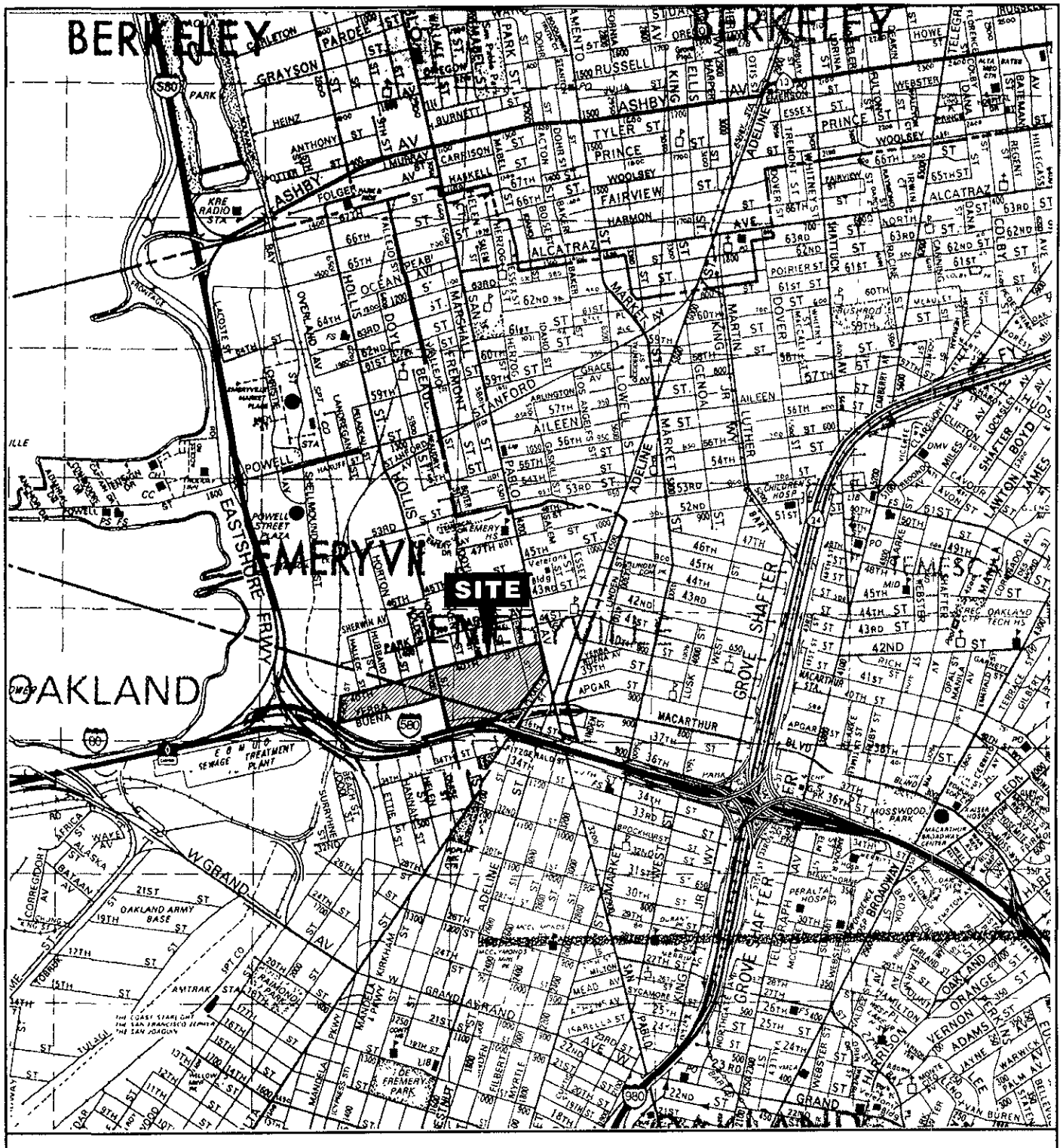
Table 4
Groundwater Sampling Schedule
East Baybridge Center
Emeryville and Oakland, California

Quarterly Period	Area	Well Depth	Well Identification	Analysis
OCTOBER through DECEMBER 1997	Area A	20' to 25'	MW-2	TPHg, TPHd, BTEX
			MW-3, MW-4, MW-5, MW-6, MW-7,	TPHd, TPHo, VOCs
			MW-8, MW-9, LF-22, LF-23	VOCs
			Collection Trench, EX-3 & EX-4	TPHd, TPHo, VOCs
		40' to 45'	MW-6D, MW-7D, MW-9D	VOCs
		60'	MW-7Z	VOCs
	Area C	20' TO 25'	MW-10R, MW-34R, LF-13	VOCs
			MW-12R	VOCS,TPHd,TPHo

NOTES:
The sampling proposed is in accordance with Levine-Fricke-Recon's December 19, 1994 "Ground-Water Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California."

Analysis for TPHg will use EPA Method 5030.
Analysis for BTEX will use EPA Method 8020.
Analysis for TPHd and TPHo will use EPA Method 3510.
Analysis for VOCs will use EPA Method 8010.

One duplicate sample, a trip blank, and bailer rinsate blank will be analyzed for VOCs.



EAST BAYBRIDGE CENTER

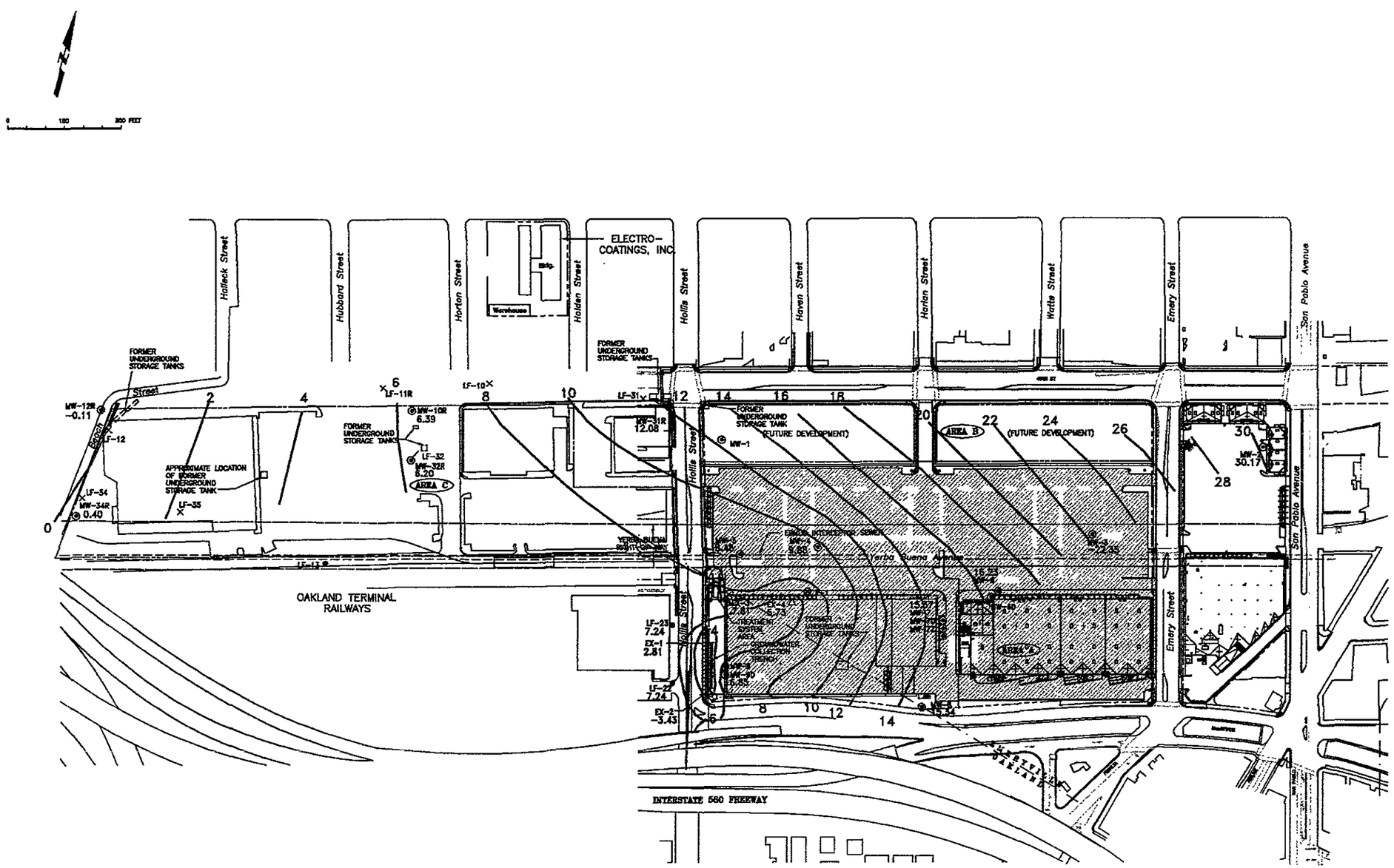
Site Location Map

Levine-Fricke-Recon

Project No. 1649

Figure 1

1649SV01 CDR 102296RYL.JCK



△	REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE :
DESIGN :
DRAWN :
CHECKED :

Levine-Fricke-Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS
Emeryville, California

CATELLUS DEVELOPMENT CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure 2
SITE PLAN SHOWING GROUNDWATER ELEVATIONS IN SHALLOW WELLS AUGUST 21, 1997

Project No. 1649
Date OCT. 97
Sheet of

DRAWING CODE J:\ENGCAD\1649\SITEPL8.DWG

APPENDIX A

Field Procedures

FIELD PROCEDURES

Before sample collection, depth to static water was measured in each well and the volume of water in the well casing was calculated. Groundwater was then purged from each well using an electric submersible pump, a centrifugal pump or a Teflon bailer until indicator parameter readings (pH, specific conductance, and temperature) stabilized. Groundwater equaling at least three well casing volumes was removed from each well. Indicator parameters were measured using portable field instruments and measurements recorded on water-quality sampling forms. Purging and sampling equipment were steam cleaned before use at each well. Purged groundwater was pumped into the on-site treatment system.

After each well had been purged, groundwater samples were collected using a clean Teflon bailer. Samples were collected in containers appropriate for the laboratory analysis to be performed. Samples collected for VOC analyses were collected by pouring groundwater directly from the bailer into laboratory-supplied, 40-milliliter volatile organic analysis (VOA) glass vials. Vials were gently filled to overflowing, capped, and then inverted to check for trapped air. If an air bubble was observed, the vial was discarded and a new vial filled. Samples were immediately capped and placed in an ice-chilled cooler for transportation to the analytical laboratory.