Groundwater Monitoring Plan
East Baybridge Center
Emeryville and Oakland, California

April 15, 1998
1649.98-001

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

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

April 15, 1998 1649.98-001

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

Subject: Revised Groundwater Monitoring Plan for the East Baybridge Center, Emeryville and Oakland, California

Dear Ms. Hugo:

Enclosed is the Revised Groundwater Monitoring Plan (the "Monitoring Plan") for the East Baybridge Center ("the Site") located in Emeryville and Oakland, California. The Monitoring Plan includes a schedule to conduct groundwater monitoring at the Site on a semiannual basis. The rationale for revising this schedule is presented in the Monitoring Plan and is based on the results of the groundwater monitoring historically conducted at the Site.

Please call me if you have any questions or comments concerning the Monitoring Plan.

Sincerely,

Ron Goloubow
Senior Project Geologist

Enclosure

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

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APPENDICES

1.0 INTRODUCTION

Levine·Fricke·Recon Inc. (LFR) has prepared this revised groundwater monitoring plan ("Revised Plan") on behalf of Catellus Development Corporation ("Catellus") to amend the groundwater monitoring schedule for the East Baybridge Center in Emeryville and Oakland, California ("the Site"; Figure 1). LFR is currently conducting groundwater monitoring at the Site in accordance with the "Groundwater Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California," submitted to the Alameda County Health Care Services Agency on December 19, 1994 (ACHCSA; LFR 1994b).

This Revised Plan proposes to reduce the frequency of monitoring from quarterly (every three months) to semiannually (every six months). The rationale for this change is presented in this Revised Plan and is based upon the evaluation of groundwater monitoring conducted at the Site since September 1994.

Quarterly groundwater monitoring currently conducted at the Site includes measuring water levels in 22 accessible wells and collecting groundwater samples from 20 selected wells.

The monitoring data are used as follows:

- to assess the concentrations of volatile organic compounds (VOCs) detected in groundwater at the Site
- to assess the effectiveness of the groundwater extraction and treatment system that began operation at the Site in August 1994
- to assess the trends in groundwater quality at the Site
- to assess the possible effects on groundwater of soils affected with total petroleum hydrocarbons (TPH) that have been contained on site in Areas A and B

2.0 BACKGROUND

The Site is approximately 51 acres in area, 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).

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 (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.

In preparation for site development, LFR began environmental investigations at the Site on behalf of Catellus in September 1989. Site investigation and remediation continued for about five years. Results of Phase I and Phase II investigations indicated that the VOCs 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), and cis/trans-1,2-dichloroethene (cis/trans-1,2-DCE) were present in shallow groundwater beneath the Site. During site development, underground storage tanks (USTs) were identified, excavated, and removed from several locations across the Site. Groundwater monitoring wells were installed in the vicinity of the former UST locations (Figure 2) to monitor groundwater quality, in accordance with regulatory guidelines.

2.1 Areas A and B

As illustrated on 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.

A groundwater monitoring program was implemented at the Site from January 1992 to July 1993 to monitor VOC concentrations in Area A groundwater. To accommodate site development, the groundwater monitoring wells were abandoned and sealed in July 1993 and reinstalled in August 1994. Quarterly groundwater monitoring resumed at the Site in September 1994.

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). This extraction system began operation in August 1994. Details regarding the operation of the extraction and treatment system are presented in a self-monitoring report submitted semiannually to the East Bay Municipal Utilities District (EBMUD) by LFR.

Approximately 25,000 cubic yards of petroleum hydrocarbon-affected soil were excavated from Area B and contained beneath building pads in Areas A and B in accordance with LFR's "Containment Plan for Total Petroleum Hydrocarbon-Affected Soils, Yerba Buena Project Site, Emeryville and Oakland, California," dated March 10, 1992 (LFR 1992a). The removal of soil from this area of the Site was described in LFR's "Soil Remediation Activities Report, Former Ransome Property, Yerba Buena Project Site, Emeryville, California," dated March 21, 1992 (LFR 1992b). To assess groundwater quality in Areas A and B, five monitoring wells were installed and sampled on a quarterly basis for over a year. In response to a request from the Regional Water Quality Control Board (RWQCB), LFR prepared a "Soils Management Plan for Petroleum Hydrocarbon-Affected Soils, Yerba Buena/East Baybridge Center, Emeryville and Oakland, California," dated November 30, 1994 (LFR 1994a). The plan outlined periodic groundwater monitoring to evaluate the possible effects on groundwater from soils contained at the Site.

2.2 Area C

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. Construction of one smaller retail store in Area C is planned.

VOCs have been detected in groundwater samples collected from wells in Area C. The distribution and types of detected VOCs indicate that these VOCs have migrated in groundwater from an off-site source. These particular VOCs (TCE and cis/trans-1,2-DCE) have not been detected historically at the Site. The RWQCB concurred with this conclusion in its letter dated May 11, 1994.

Several USTs were identified at various locations within Area C during investigations and site grading. Groundwater monitoring wells were installed following the excavation of some of these USTs. These groundwater monitoring wells (LF-31 and LF-32, installed at the former Bashland and Bay Area Warehouse properties, respectively) were monitored on a quarterly basis until they were abandoned and sealed during site development in June 1994, along with the other five wells located west of Hollis Street (except well LF-13).

Replacement wells MW-31R and MW-32R were installed in December 1995. In addition, 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 installed to monitor possible on-site migration of VOCs from a known source located north of the property (Figure 2).

2.3 Groundwater Extraction and Treatment System

The groundwater extraction and treatment system consists of two extraction wells and one extraction trench, which are located on the western portion of Area A. Extracted groundwater is treated using granular activated carbon, and treated water is discharged to the sanitary sewer under an EBMUD permit. Extraction system influent and effluent are sampled monthly for VOCs and TPH as diesel (TPHd). Analytical results are presented in a self-monitoring report submitted semiannually to EBMUD. Concentrations of VOCs in the influent to the treatment system will be evaluated at the end of 1998 to assess whether the groundwater extraction and treatment system warrants continued operation.

3.0 MONITORING OBJECTIVES

The objectives of this Revised Plan are the same as those stated in LFR's "Groundwater Monitoring Plan, East Baybridge Center, Emeryville and Oakland, California," dated December 19, 1994 (LFR 1994b). The objectives of monitoring are as follows:

- to monitor and evaluate the lateral and vertical extent of VOCs in groundwater at the Site
- to evaluate changes and trends in groundwater elevations, hydraulic gradients, flow directions, and groundwater quality
- to provide data to assess the effectiveness of the groundwater extraction and treatment system and to assess the area of groundwater capture created by the groundwater extraction system (the wells and trench)

3.1 Rationale for the Revised Groundwater Monitoring Schedule

Based on the results of the last three years of quarterly monitoring data, the monitoring objectives can be met by implementing a reduced schedule of groundwater monitoring.

This section presents the rationale for revising the groundwater monitoring plan.

3.1.1 Groundwater Flow

The groundwater flow direction and gradient across the Site have remained consistent since September 1994. The consistent groundwater flow direction and gradient have been illustrated on maps prepared using water-level measurements collected at the Site on a quarterly basis since September 1994. To illustrate this point, groundwater contour maps for water levels measured in 1996, 1997, and 1998 are included in Appendix A. As shown on all of these maps, the groundwater flow direction across Area A has consistently been to the west under horizontal hydraulic gradients ranging from 0.013 foot per foot (ft/ft) in January 1998 to 0.016 ft/ft in February 1997 (measured between wells MW-2 and MW-9). In addition, the quarterly water-level measurements collected at the Site indicate that the groundwater extraction system appears to be creating a depression in the shallow groundwater surface. This conclusion is illustrated by the deflection of groundwater elevation contours, and by lowered groundwater elevations that have been consistently measured in groundwater monitoring and extraction wells in the vicinity of the groundwater extraction system (see Appendix A).

3.1.2 Groundwater Quality

The historical groundwater quality data collected from site wells are presented in Table 1. Groundwater sampling results have indicated that detectable concentrations of VOCs in samples collected from monitoring wells MW-5, MW-6, MW-7, MW-9, LF-22, and LF-23, extraction wells EX-3 and EX-4, and the extraction trench have remained stable or have been reduced. These eight wells and the trench are located within Area A, where the highest concentrations of VOCs have historically been detected in shallow groundwater at the Site. Other monitoring wells within Area A, including wells MW-1, MW-2, MW-3, MW-4 and MW-8, are located around the perimeter of the area where the highest concentrations of VOCs have been detected in shallow groundwater at the Site. VOCs have not been detected above analytical detection limits in these five wells.

As discussed in Section 2.2, the source of VOCs detected in groundwater monitoring wells located on Area C of the Site (wells MW-10R, MW-12R, LF-13, MW-31R, MW-34R, and LF-35) is off site. Therefore, analytical data for samples collected from these wells have not been used to evaluate the effectiveness of the groundwater monitoring program or groundwater extraction and treatment system.

Graphs illustrating groundwater elevations and total VOCs detected in samples from monitoring wells MW-5, MW-6, MW-7, MW-9, LF-22, and LF-23, extraction wells EX-3 and EX-4, and the extraction trench over time are presented in Figures 3 through 11, respectively.

Groundwater monitoring wells MW-5, MW-6, MW-7, and MW-9 are located upgradient from the groundwater extraction system (Figure 2). Samples collected from wells MW-5, MW-6, MW-7, and MW-9 indicate that the concentrations of total VOCs have either decreased or remained stable since the wells were installed in September 1994 (Figures 3, 4, 5, and 6, respectively). Concentrations of total VOCs detected in samples collected from well MW-6 have decreased somewhat, ranging from 0.38 parts per million (ppm) in December 1996 to 0.222 ppm in the sample collected from this well in May 1997 (Figure 4). Concentrations of total VOCs detected in samples collected from well MW-9 have decreased from 0.177 ppm in the sample collected in November 1994 to 0.065 ppm in the sample collected in December 1997 (Figure 6). The decrease in total VOCs in these wells is attributed to the operation of the groundwater extraction and treatment system and various natural degradation and attenuation factors.

Groundwater monitoring wells LF-22 and LF-23 are located approximately 100 feet to the west (downgradient) of the groundwater extraction trench. Samples collected from both of these wells indicate that concentrations of VOCs have decreased since August 1995 (Figures 7 and 8). Samples collected from well LF-22 have not contained detectable concentrations of VOCs since December 1995. Samples previously collected from this well contained total VOCs at concentrations up to 0.075 ppm (Figure 7). Samples collected from well LF-23 indicate that concentrations of VOCs have decreased from 0.082 ppm in January 1992 to 0.0024 ppm in February1997 (Figure 8). The decrease in total VOCs in wells LF-22 and LF-23 indicates that the groundwater extraction system has been effective in inhibiting the downgradient migration of VOCs.

Analytical results for samples collected from groundwater extraction wells EX-3 and EX-4 indicate that concentrations of total VOCs in shallow groundwater in the vicinity of these two wells have decreased since the extraction system began operation in August 1994 (Figures 9 and 10). Total VOC concentrations detected in samples collected from extraction well EX-3 have decreased from 0.209 ppm in December 1994 and December 1995 to 0.076 ppm in February 1997. Samples collected from extraction well EX-4 indicate that total VOCs have decreased from 0.277 ppm in December 1994 to 0.099 ppm in August 1997.

Analytical results for samples collected from the extraction trench indicate that concentrations of total VOCs in shallow groundwater in the vicinity of the trench have remained relatively stable since the initial sample was collected in February 1996 (Figure 11).

3.2 Summary

The results of groundwater monitoring during the past three years has provided a historical basis for evaluating the groundwater flow direction, gradient, and groundwater quality at the Site. The water-level monitoring indicates that groundwater flows consistently to the west. Based on the consistent groundwater flow direction measured at the Site and the analytical data collected at the Site since September 1994, which show stable or decreased concentrations of VOCs detected in samples collected from shallow wells, we recommend that the groundwater elevation monitoring schedule be revised as presented below.

4.0 REVISED GROUNDWATER MONITORING SCHEDULE

The proposed revised groundwater monitoring program is designed to meet the objectives outlined in Section 3.0. We propose that groundwater elevation measurements and groundwater samples from selected monitoring wells be collected on a semiannual basis and analyzed for the constituents listed on Table 2. The first implementation of this plan (if it is approved) will occur six months after the last monitoring event. The results of groundwater monitoring will be evaluated at the end of each year to assess whether the groundwater monitoring program should be further revised.

4.1 Groundwater Elevation Measurements

Depth-to-water measurements will be measured in all accessible shallow groundwater monitoring and extraction wells, and in deeper groundwater monitoring wells, on a semiannual basis.

4.2 Shallow Groundwater Quality Monitoring in Areas A and B

The following shallow wells will be monitored on a semiannual basis: MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, LF-13, LF-22, LF-23, MW-10R, MW-12R, MW-34R, EX-1, and EX-2. The groundwater collection trench will also be monitoring on a semiannual basis.

Installation of monitoring well MW-1R (the replacement well for MW-1) is planned for the second quarter of 1998. Groundwater samples collected from this well will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), TPHd, total petroleum

hydrocarbons as oil (TPHo), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). The groundwater in this area is being analyzed for these constituents to monitor on-site soils.

Groundwater samples will be collected from well MW-2 and analyzed for TPHg, TPHd, and BTEX. These samples are to monitor the migration of TPHg- or BTEX-affected groundwater onto the Site from the former Celis gasoline station located upgradient from the Site.

Groundwater samples will be collected from shallow wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, LF-22, LF-23, EX-3, and EX-4 for the analysis of VOCs. Samples collected from shallow wells MW-3, MW-4, MW-5, MW-6, MW-7, EX-3, and EX-4 will also be analyzed for TPHd and TPHo.

4.3 Shallow Groundwater Quality Monitoring in Area C

Groundwater samples will be collected from four of the six shallow monitoring wells in Area C on a semiannual basis. As discussed in Section 2.2, the source of the VOCs detected in groundwater samples collected in Area C wells is off site. Samples will be collected from shallow wells MW-10R, MW-12R, MW-34R, and LF-13 and analyzed for VOCs. Samples will be collected from shallow well MW-12R for the analysis of TPHd and TPHo.

Samples will not be collected from wells MW-31R and MW-32R. These wells are associated with the removal of USTs at the former Bashland Oil Company and Bay Area Warehouse, respectively. Based upon the discussions and data presented in two letters requesting closure for these sites sent to the ACHCSA dated June 3, 1997, and pursuant to telephone conversations with Ms. Susan Hugo in July and December 1997, the former Bashland Oil Company and Bay Area Warehouse UST sites are considered closed.

4.4 Deeper-Zone Groundwater Quality Monitoring in Area A

Samples will be collected from four deeper-zone monitoring wells on a semiannual basis. Samples will be collected from deeper wells MW-6D, MW-7D, MW-9D, and MW-7Z and analyzed for VOCs.

5.0 REPORTING SCHEDULE

Reports providing results of the semiannual monitoring events will be submitted one month after each monitoring event. Each report will include a summary of the water-level elevation (including a water-level elevation contour map), a summary of analytical data, and a brief discussion of the analytical results and water-level data.

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

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

Table 1
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	Total VOCs
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	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	ND
		17-Feb-95	AEN	<0.05	0.08	<0.0005	<0.0005	<0.0005	<0.002	NA	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	NA
		31-Aug-95	AEN	<0.05	0.30	<0.0005	<0.0005	<0.0005	<0.002	NA	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	NA
		27-Feb-96	AEN	<0.05	0.18	<0.0005	<0.0005	<0.0005	<0.002	NA	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	NA
		04-Sep-96	AEN	<0.05	0.25	<0.0005	<0.0005	<0.0005	<0.002	NA	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	NA
		17-Feb-95	AEN	3.50	0.30	0.045	0.005	0.11	0.35	NA	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	NA
		31-Aug-95	AEN	0.90	0.20	0.011	<0 0005	0.032	0.072	NA	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	NA
		27-Feb-96	AEN	4 10	0.20	0.076	0.0095	0.21	0 62	NA	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	NA
		04-Sep-96	AEN	0.54	0.22	0.0024	<0.0005	0.018	0.045	NA	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	NA
		18-Feb-97	AEN	1.2	0.24	0.015	0.0009	0.057	0.140	NA	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	NA
	(44)	11-Dec-97	AEN	1.7	0.15	0.016	0.0010	0.061	0.106	NA	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	ND
		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	ND
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		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	ND
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		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	ND
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		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	ND
		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	ND
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
	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	ND
		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	ND
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	<0.05	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND

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(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	Total VOCs
MW-4		01-Dec-94	AEN	NA	0.09	NA	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	0 004
		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	0 001
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0022	<0.0005	<0.0005	0.0022
		04-Sep-96	AEN	NA	0.14	NA	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	0.004
		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	0.0013
		11-Dec-97	AEN	NA	0.08	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0008	<0.0005	<0.0005	0.0008
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	0 0067
		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	0 0082
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.001	0.002	0.008	0.003	<0.0005	<0.0005	0 014
		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	0.0255
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	0 0007	0.002	0.002	0 013	0 004	<0.0005	<0.0005	0.0217
		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	0 0128
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0.0024	0.010	0.0029	<0.0005	<0 0005	0 0161
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0 001	0.0051	0.0021	<0.0005	<0.0005	0.0082
		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	0 0083
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	0.002	0.005	0.002	<0.001	<0.001	0 009
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0009	0.0079	0.002	<0.0005	<0.0005	0.0108
		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	0 0261
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	0.0006	<0.0005	0.0026	0.019	0.0041	<0.0005	<0.0005	0.0263
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	0.0217
		11-Dec-97	AEN	NA	0.06	NA	NA	NA	NA	<0.0005	<0.0005	0.0019	0.012	0.0029	<0.0005	<0.0005	0.0168
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	0.3285
	(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	0.3456
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.039	<0.003	0.280	0 003	<0.003	<0.003	0.322
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	0.339
		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	0.294
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.032	<0.003	0 270	0 004	<0.003	<0.003	0.306
		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	0.324
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.005	0.031	<0.005	0.270	<0.005	<0.005	<0.005	0.301
		01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.026	<0.003	<0.200	0 003	<0.003	<0.003	0.029
		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	0.368
		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	0.38
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.029	<0.003	0.260	0.003	<0.003	<0.003	0.292
		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	0.222

Table 1
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	Total VOCs
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.019	<0.003	0.230	0.003	<0.003	<0.003	0.252
		11-Dec-97	AEN	NA	0.07	NA	NA	NA	NA	<0.003	0.020	<0.003	0.210	0 004	<0.003	<0.003	0.234
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	0.1809
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.170	0.003	<0.0005	<0.0005	0.189
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.011	<0.003	0.120	<0.003	<0.003	<0.003	0.131
		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	0 199
		30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.012	<0.003	0.140	0.003	<0.003	<0.003	0.155
		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	0 181
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.018	<0 003	0 210	0.0035	<0.003	<0.003	0.2315
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	0.23
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0 003	0 016	<0.003	0.220	0.003	<0.003	<0.003	0.239
		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	0.315
		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	0 33
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.007	<0.003	0.150	<0.003	<0.003	<0.003	0 157
		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	0.249
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.013	<0.003	0.250	0.005	<0.003	<0.003	0.268
		11-Dec-97	AEN	NA	0.06	NA	NA	NA	NA	<0.003	0.014	<0.003	0.220	0.006	<0.003	<0.003	0.24
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	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	ND
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		04-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	ND
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	ND
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
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	0.1435
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	0.1445
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0 0005	0.016	<0.0005	0.150	0.0005	<0.0005	<0.0005	0.1665
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	0.1765

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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	Total VOCs
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.014	<0.003	0.120	<0.003	<0.003	<0.003	0.134
		08-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.013	<0.0005	0.110	0.005	<0.0005	<0.0005	0 128
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.013	<0.003	0.130	0 004	<0.003	<0.003	0 147
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.009	<0.003	0.092	<0.003	<0.003	<0.003	0.101
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0099	<0.0005	0.087	0.0035	<0.0005	<0.0005	0.1004
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0 0005	0.0083	<0.0005	0.099	0.0030	<0.0005	<0.0005	0.1103
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	0.1074
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	0.005	<0.001	0.059	0.002	<0.001	<0.001	0.066
	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	0 072
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.008	<0.0005	0.087	0.0023	<0 0005	<0.0005	0 0973
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0056	<0 0005	0.063	0.0025	<0.0005	<0.0005	0.0711
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0080	<0.0005	0.067	0.0022	<0.0005	<0.0005	0.0772
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0050	<0.0005	0.058	0.0022	<0.0005	<0.0005	0.0652
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	1.139
	(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	0.65
	(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	0.77
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	0.500	<0.005	<0.005	<0.005	<0.005	<0.005	0.156	0.656
	(47)	12-Dec-97	AEN	NA	NA	NA	NA	NA	NA	0.420	<0.005	<0.005	<0.005	<0.005	<0.005	0.125	0.545
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	0.005
		27-Feb-96	AEN	<0.05	0.36	<0.0005	<0.0005	<0.0005	<0.002	NA	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	0.0049
		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	0.01
		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	0.0075
		12-Dec-97	AEN	NA	0.44	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0014	<0.0005	<0.0005	0.0014
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	0.027
		27-Feb-96	AEN	<0.05	0.37	<0.0005	<0.0005	<0.0005	<0.002	NA	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	0.015
		05-Sep-96	AEN	NA	0.54	NA	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	0.012
		19-Feb-97	AEN	NA	0.49	NA	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	0.113
		27-Feb-96	AEN	<0.05	0.26	<0.0005	<0.0005	<0.0005	<0.002	NA	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	0 074
		05-Sep-96	AEN	NA	0 34	NA	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	0.21

Table 1

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	Total VOCs
		19-Feb-97	AEN	NA	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	0 009
	(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	0.0361
		17-Dec-96	AEN	NA	NA	NA	NA	NA	NA	0.018	<0.001	<0.001	0.002	<0 001	<0.001	0.005	0.025
	(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	0 0036
	(46)	12-Dec-97	AEN	NA	NA	NA	NA	NA	NA	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0012
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	0.006
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	0.006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	0.006
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0.0031	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0 0031
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	0 0031
	(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	0.003
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	0 0753
		07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.009	0.0037	0.041	0.0054	0.0011	<0.0005	0.0602
		16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0026	0.0018	0.015	0.0021	<0.0005	<0.0005	0.0215
	(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	0.037
		20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	0.0008	0.0013	0.0007	0.014	0.004	<0.0005	<0.0005	0.02074
		25-May-93	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0 0006	0.0061	0.0024	<0.0005	<0.0005	0.00992
		13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	0.0007	0.001	0.0009	0.0077	0.0033	<0.0005	<0.0005	0.01352
	(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	0.0167
		01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	0.0006	0.0009	<0 0005	<0 0005	0.0015
		17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	0.0006	0.0007	0.001	<0.0005	<0.0005	0.0023
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0007	0.0007	<0.0005	<0.0005	0.0014
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	0.0011
	(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	0.002
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	0.002
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
	(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	ND
	(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	ND
		04-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		12-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
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	0.0449

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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	Total VOCs
		07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	0.007	0.0023	0.056	0.0034	0.012	0.0013	<0.0005	0.082
		16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	0.0036	0.0007	0.020	0.0044	0 0044	0.0011	<0.0005	0.03418
		23-Jul-92	ANA	NA	NA	NA	NA	NA	NA	0.0038	0.0013	0.029	0.0061	0 0044	0 0014	<0.0005	0.046
		20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	0.0033	0.0005	0.023	0.0047	0 002	0.0015	<0.0005	0.03504
		25-May-93	ANA	NA	NA	NA	NA	NA	NA	0.0042	0.0007	0.016	0.0035	0.0017	0.0019	<0.0005	0.02795
		13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	0 0081	0.0015	0.018	0.0074	0.0033	0.0051	<0.0005	0 0434
		13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0006	0.002	0 003	0.0007	<0.0005	0.0063
	(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	0.0146
	(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	0.011
	(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	0 008
	(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	0.0114
	(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	0.007
	(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	0 0046
	(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	0.0034
	(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	0.0046
	(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	0.004
	(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	0.0024
	(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	0.0047
	(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	0 0047
	(45)	11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	0.0010	<0.0005	0 0019	<0.0005	<0.0005	<0.0005	0.0009	0.0038
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	0.174
		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	0.209
		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	0.155
		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	0 171
		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	0.164
		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	0.209
		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	0.1609
		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	0 157
		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	0.181
		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	0.141
		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	0.076
		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	0.0963
	(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	0.0898
		12-Dec-97	AEN	NA	0.06	NA	NA	NA	NA	<0.0005	0.0079	0.0050	0.083	0.0029	<0.0005	<0.0005	0 0988
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	0.262
		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	0.277

Table 1
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	Total VOCs
		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	0.242
		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	0 245
		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	0 231
		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	0.242
		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	0.1706
		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	0.17
		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	0 16
		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	0.117
		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	0 107
		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	0.127
		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	0.099
		12-Dec-97	AEN	NA	<0 05	NA	NA	NA	NA	<0.003	0.007	0.014	0.097	0.003	<0.003	<0.003	0.121
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	0 077
		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	0.0721
		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	0.1134
		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	0.098
		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	0.0661
		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	0.0686
		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	0.0871
		12-Dec-97	AEN	NA	<0.05	NA	NA	NA	NA	0 0006	0.0063	0.0040	0.075	0.0031	<0.0005	0.0006	0.0896
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	0.0035
		01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	ND
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
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	0.003

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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	Total VOCs
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	0.003	<0.0005	<0.0005	<0.0005	0 003
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	0.003	<0 0005	<0.0005	<0.0005	0 003
		09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0 0005	<0 0005	<0.0005	ND
		30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	0.002	<0.0005	<0 0005	<0.0005	0.002
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
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	ND
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	0.001
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	0.008
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	0.0009	<0.0005	0.0081	<0.0005	<0.0005	<0.0005	0.009
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	<0.0005	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	0.0023
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	<0.0005	<0.0005	0.0083	<0.0005	<0.0005	<0.0005	0.0083
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	0.0081	<0.0005	<0.0005	<0.0005	0.0081
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	ND
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	ND
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		08-May-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		26-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	ND
		01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005	<0.0005	ND
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005	<0.0005	ND
		17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<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	ND
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0024	<0 0005	<0.0005	<0.0005	0.0024
	DUP	11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0025	<0.0005	<0.0005	<0.0005	0.0025
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	ND
		30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND

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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	Total VOCs
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
	(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	0.005
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0 0005	<0.0005	<0.0005	<0.0005	ND
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
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	ND
		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	ND
		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	ND
		28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		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	ND
		03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0 0005	<0 0005	<0 0005	<0.0005	<0 0005	<0.0005	<0 0005	ND
		19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	ND
		15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	ND
		22-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0 0005	<0.0005	<0 0005	<0 0005	ND
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	ND
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	ND
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	ND
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	ND
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	ND
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	ND
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	ND
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	ND
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	ND
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	ND
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	ND
MW-9-FB		11-Dec-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND

Data entered by _____. Data proofed by_____ and QA/QC by_____.

NOTES:

Key to abbreviations:

Table 1
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	Total VOCs

TPHg = Total petroleum hydrocarbons as gasoline
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
ND = parameter not detected

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, Bromodichloromethane = 0 004.
(23) 1,1,2-Trichlorotrifluoroethane = 0 0021.
(24) Chloroform = 0 0015.
(25) Bromodichloromethane = 0.001, Chloroform = 0 013.

Table 1

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	Total VOCs

(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

(44) Methyl t-Butyl Ether 0.063

(45) Chloroform 0.0006

(46) Bromodichloromethane 0.0010, Chloroform 0.015

(47) Vinyl chloride 0.006

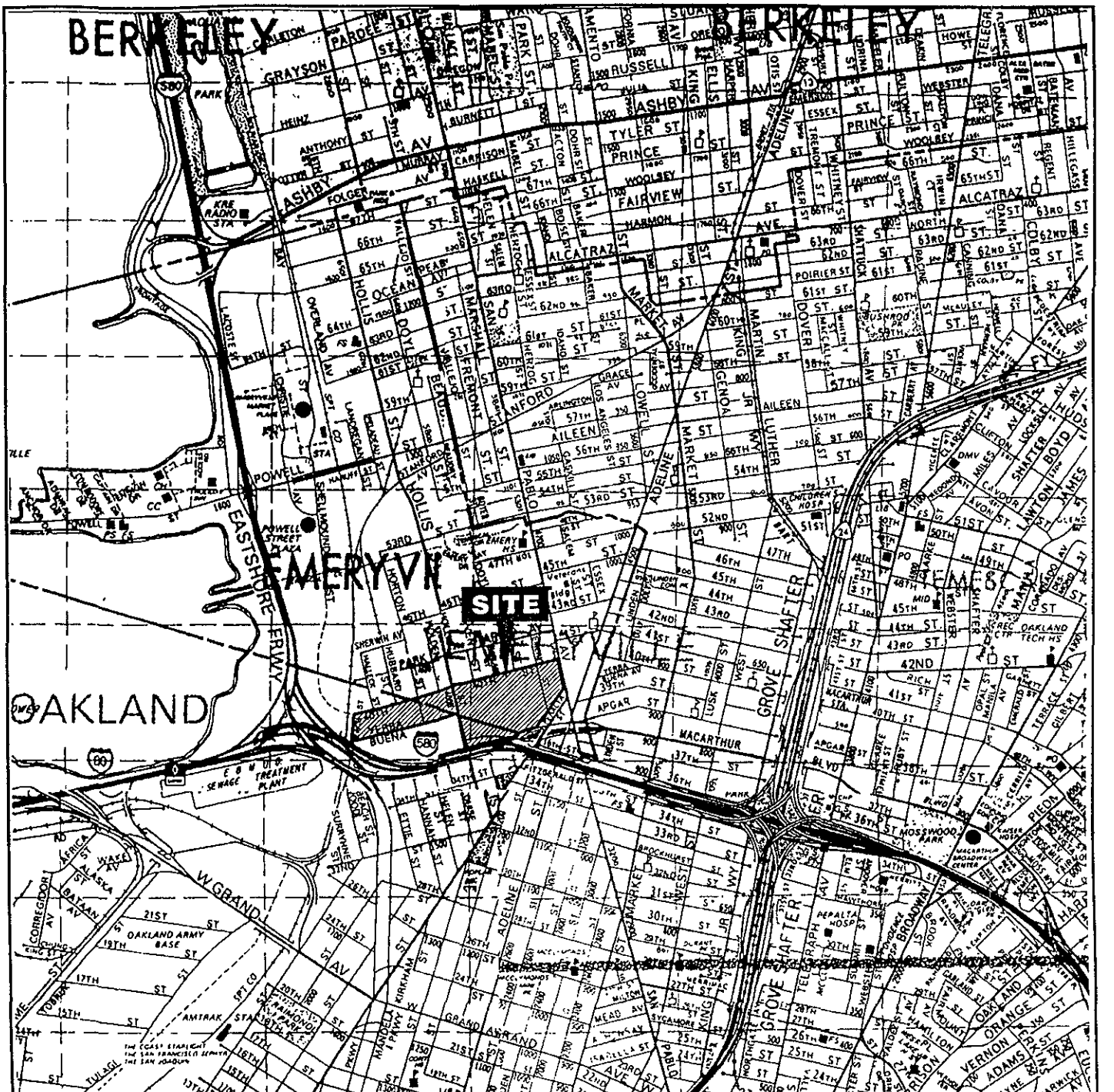
Table 2
Semiannual Groundwater Monitoring Schedule
East Baybridge Center, Emeryville and Oakland, California

Well Identification		Well Depth (feet)	Analysis
Shallow Zone	Area A		
MW-2		20-25	TPHg, TPHd, BTEX
MW-3		20-25	VOCs, TPHd, TPHo
MW-4		20-25	VOCs, TPHd, TPHo
MW-5		20-25	VOCs, TPHd, TPHo
MW-6		20-25	VOCs, TPHd, TPHo
MW-7		20-25	VOCs, TPHd, TPHo
MW-8		20-25	VOCs
MW-9		20-25	VOCs
LF-22		20-25	VOCs
LF-23		20-25	VOCs
EX-1		20-25	VOCs, TPHd, TPHo
EX-2		20-25	VOCs, TPHd, TPHo
Collection Trench		20-25	VOCs, TPHd, TPHo
MW-1R*	Area B	30	TPHg, BTEX, TPHd, TPHo
MW-10R	Area C	20-25	VOCs
MW-12R		20-25	VOCs, TPHd, TPHo
MW-34R		20-25	VOCs
LF-13		20-25	VOCs
Deep Zone	Area A		
MW-6D		40-45	VOCs
MW-7D		40-45	VOCs
MW-9D		40-45	VOCs
MW-7Z		60	VOCs

* MW-1R will be installed after the completion of site development.

Samples will be collected once between January and June, and once between July and December.

Samples will be analyzed using the following EPA methods:
TPHg using EPA Method 8015, modified
BTEX using EPA Method 8020
TPHo and TPHd using EPA Method 3550
VOCs using EPA Method 8010



EAST BAYBRIDGE CENTER

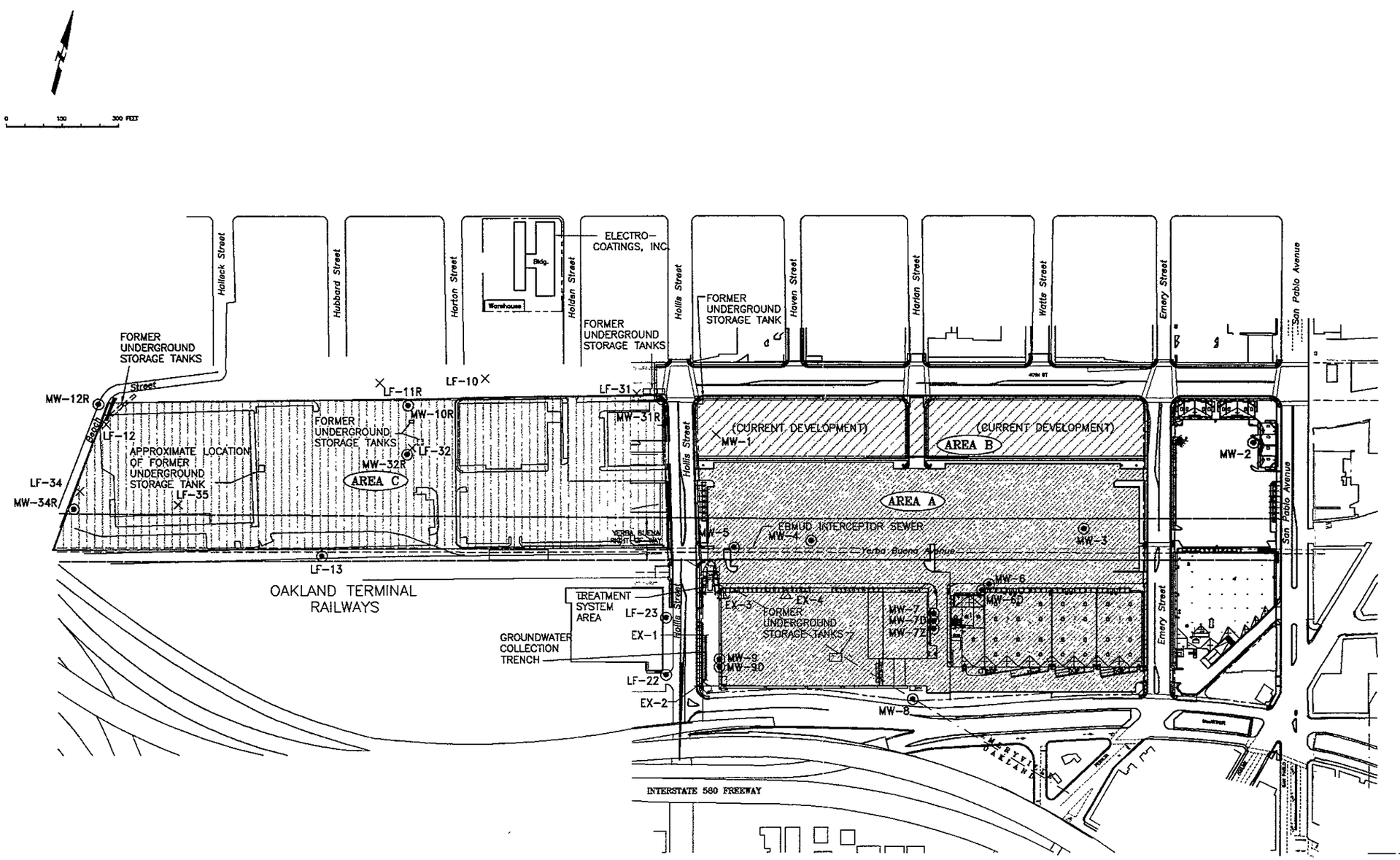
Site Location Map

Levine·Fricke·Recon

Figure 1

Project No. 1649

1649SV01 CDR 102296RYL.JCK



REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE
DESIGN :
DRAWN :
CHECKED :

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

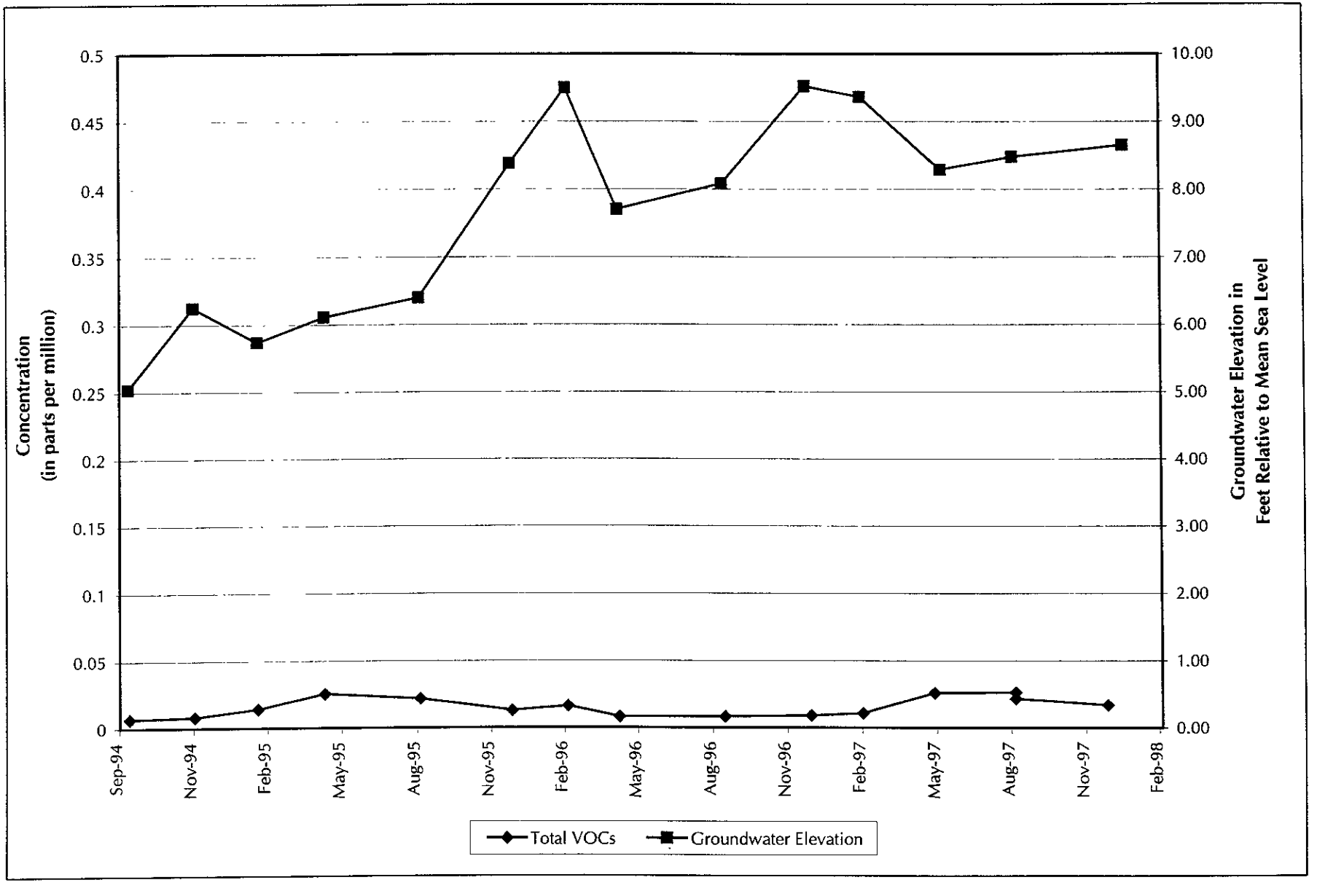
CATELLUS DEVELOPMENT CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure 2
SITE PLAN SHOWING LOCATIONS OF CONTAINED SOILS AND UNDERGROUND STORAGE TANKS

Project No. 1649
Date JAN. 98
Sheet of

DRAWING CODE J:\ENGCAD\1649\STBASE1.DWG

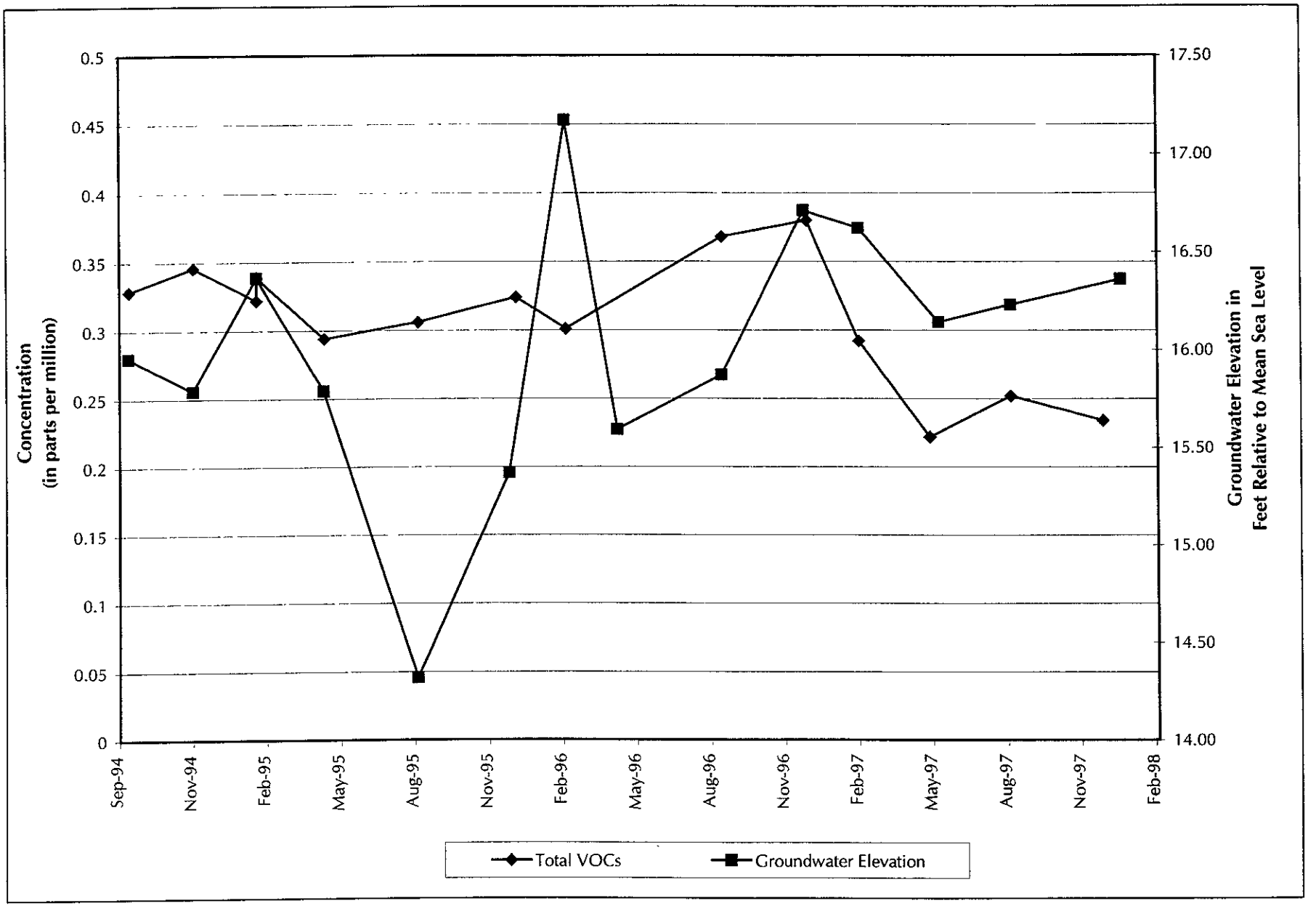


Graph of Groundwater Elevation and VOC Concentration Versus Time, Monitoring Well MW-5

Levine•Fricke•Recon

Figure 3

Project No. 1649

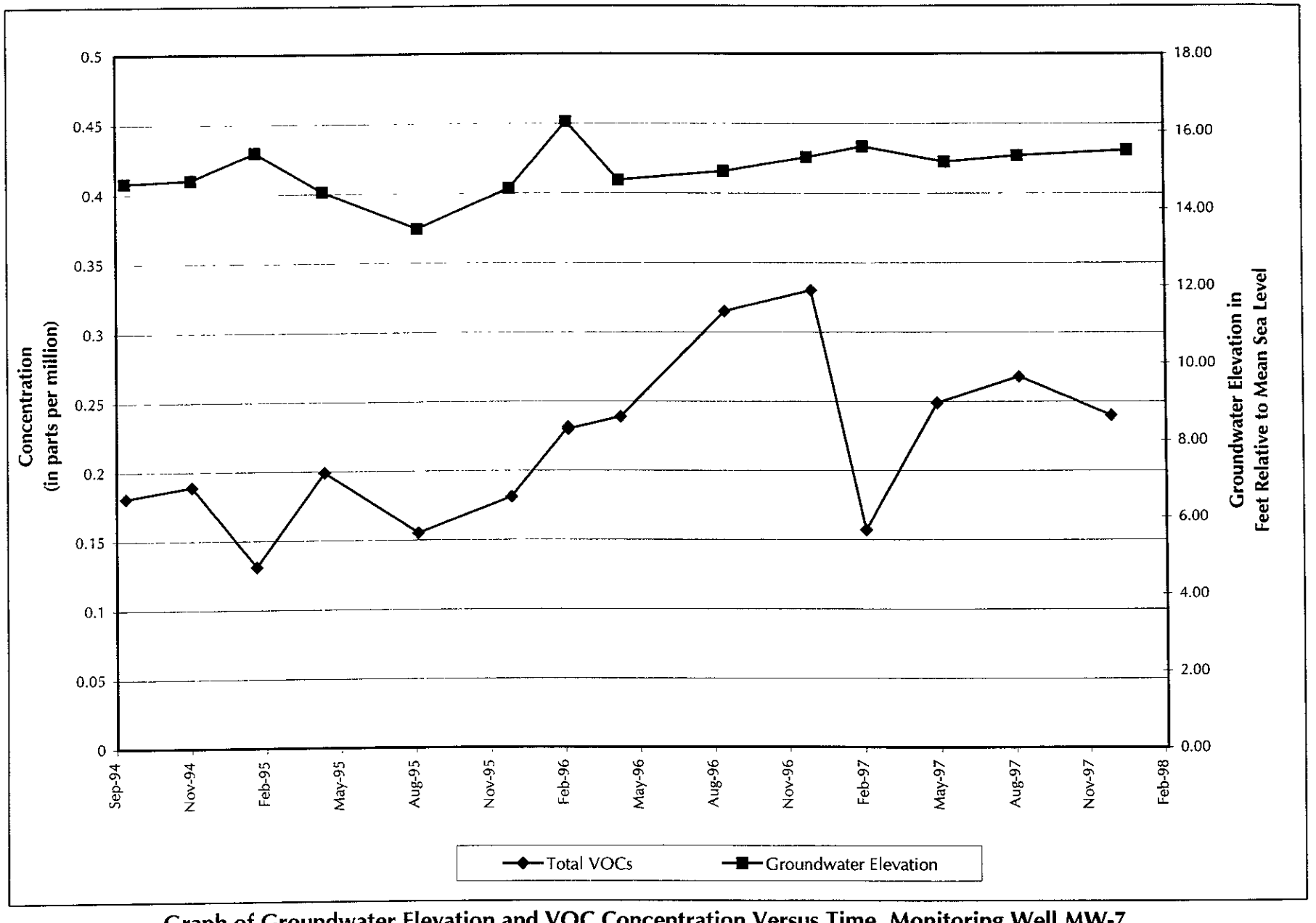


Graph of Groundwater Elevation and VOC Concentration Versus Time, Monitoring Well MW-6

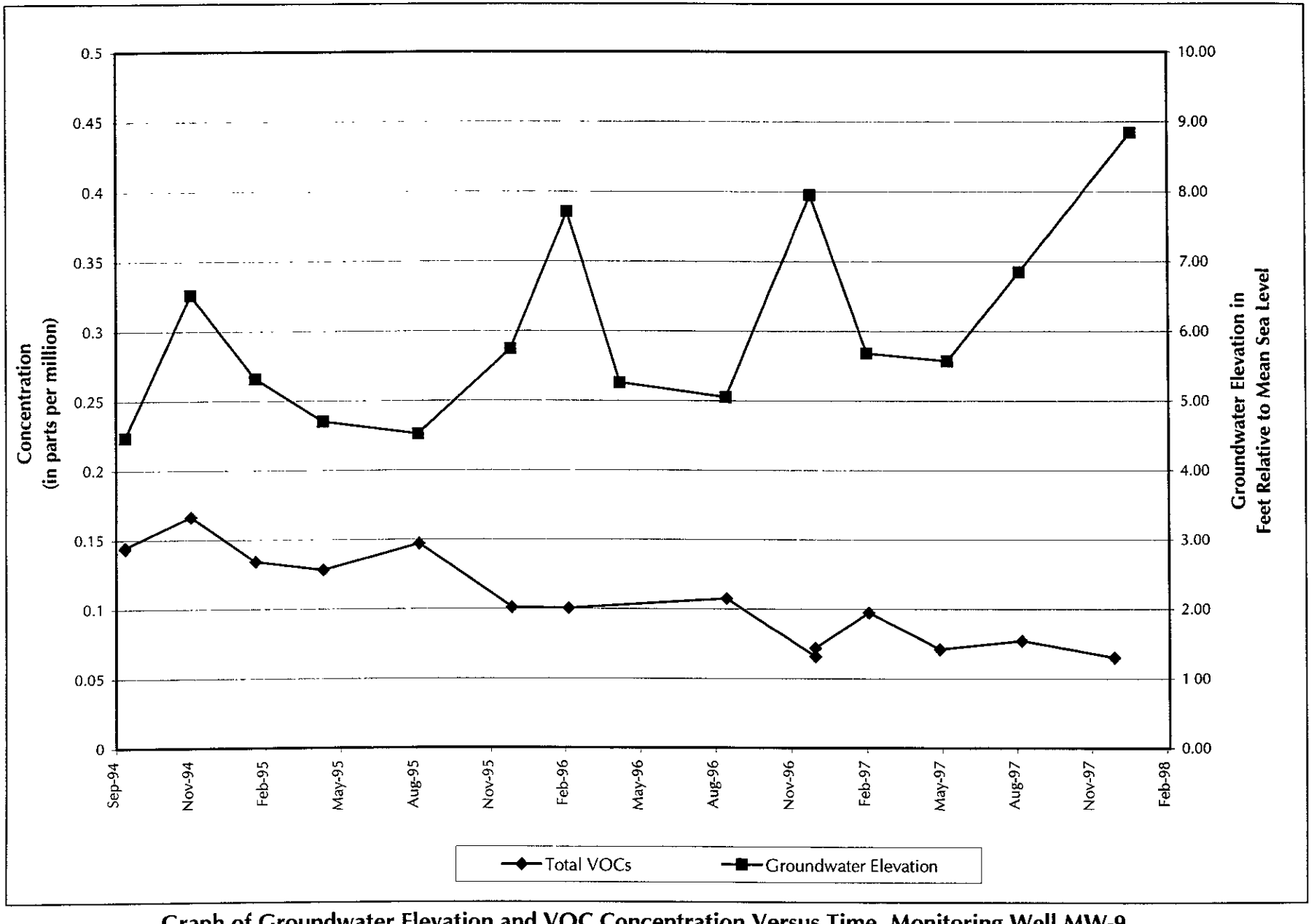
Levine•Fricke•Recon

Figure 4

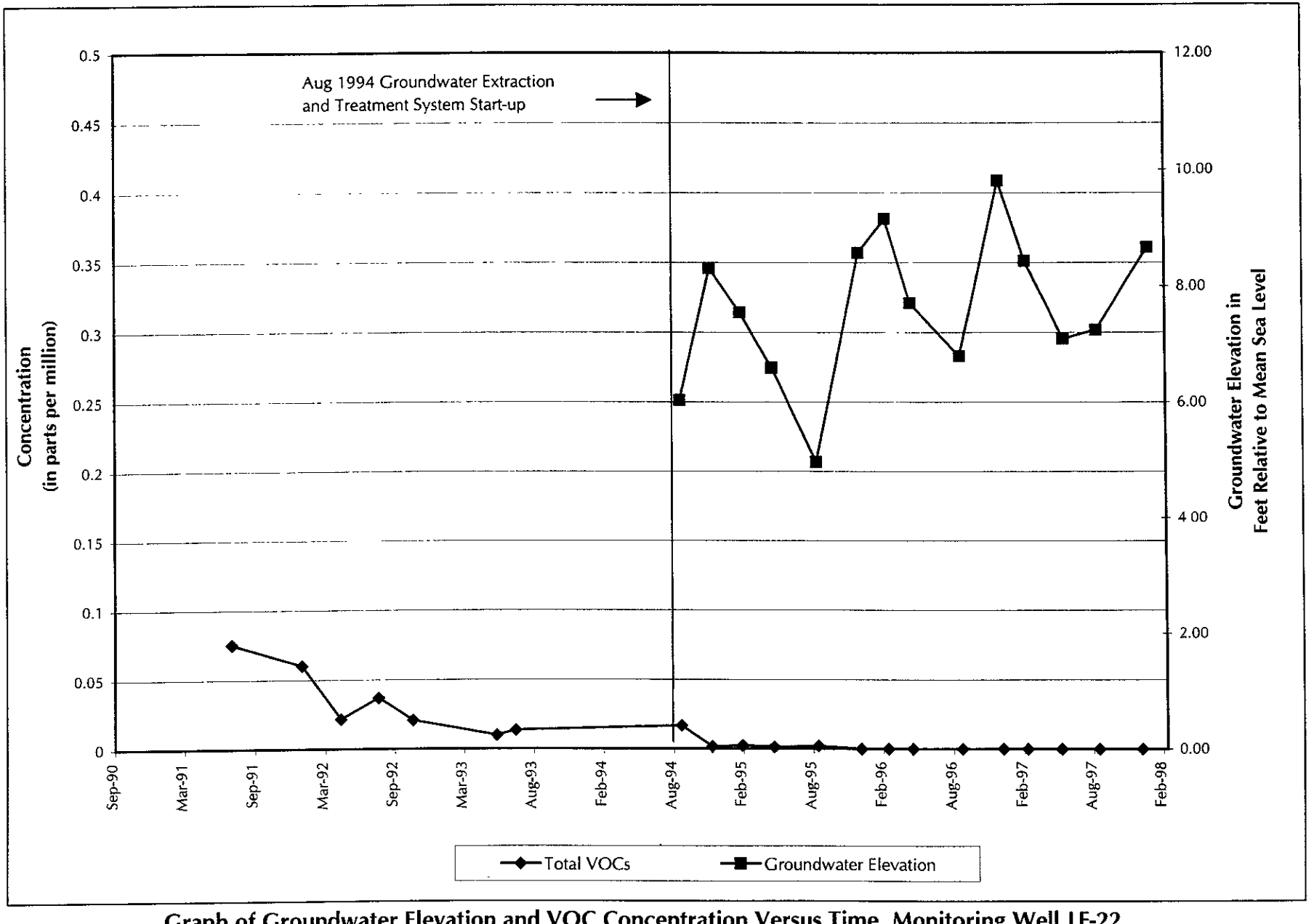
Project No. 1649



Graph of Groundwater Elevation and VOC Concentration Versus Time, Monitoring Well MW-7



Graph of Groundwater Elevation and VOC Concentration Versus Time, Monitoring Well MW-9

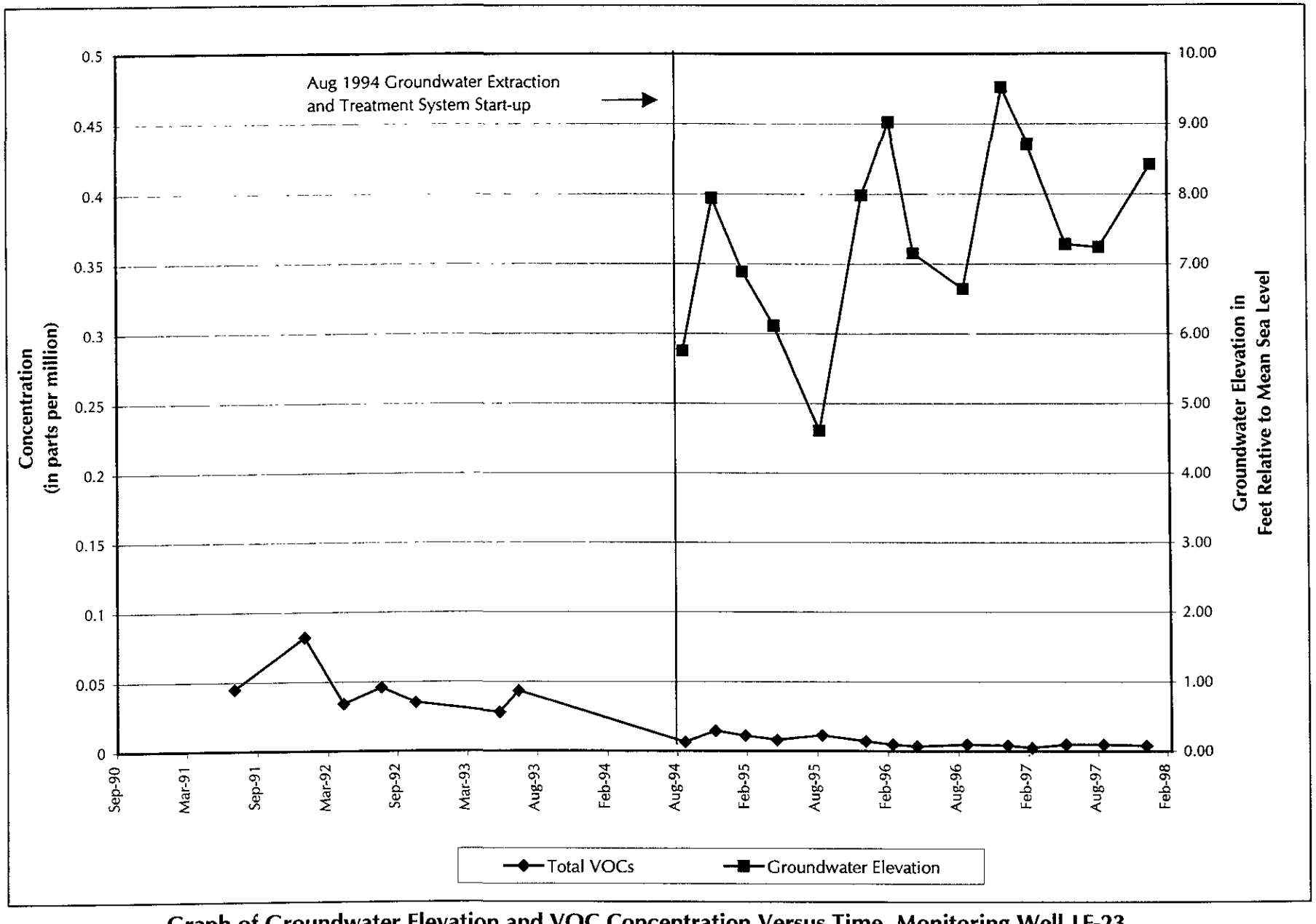


Graph of Groundwater Elevation and VOC Concentration Versus Time, Monitoring Well LF-22

Levine•Fricke•Recon

Project No. 1649

Figure 7

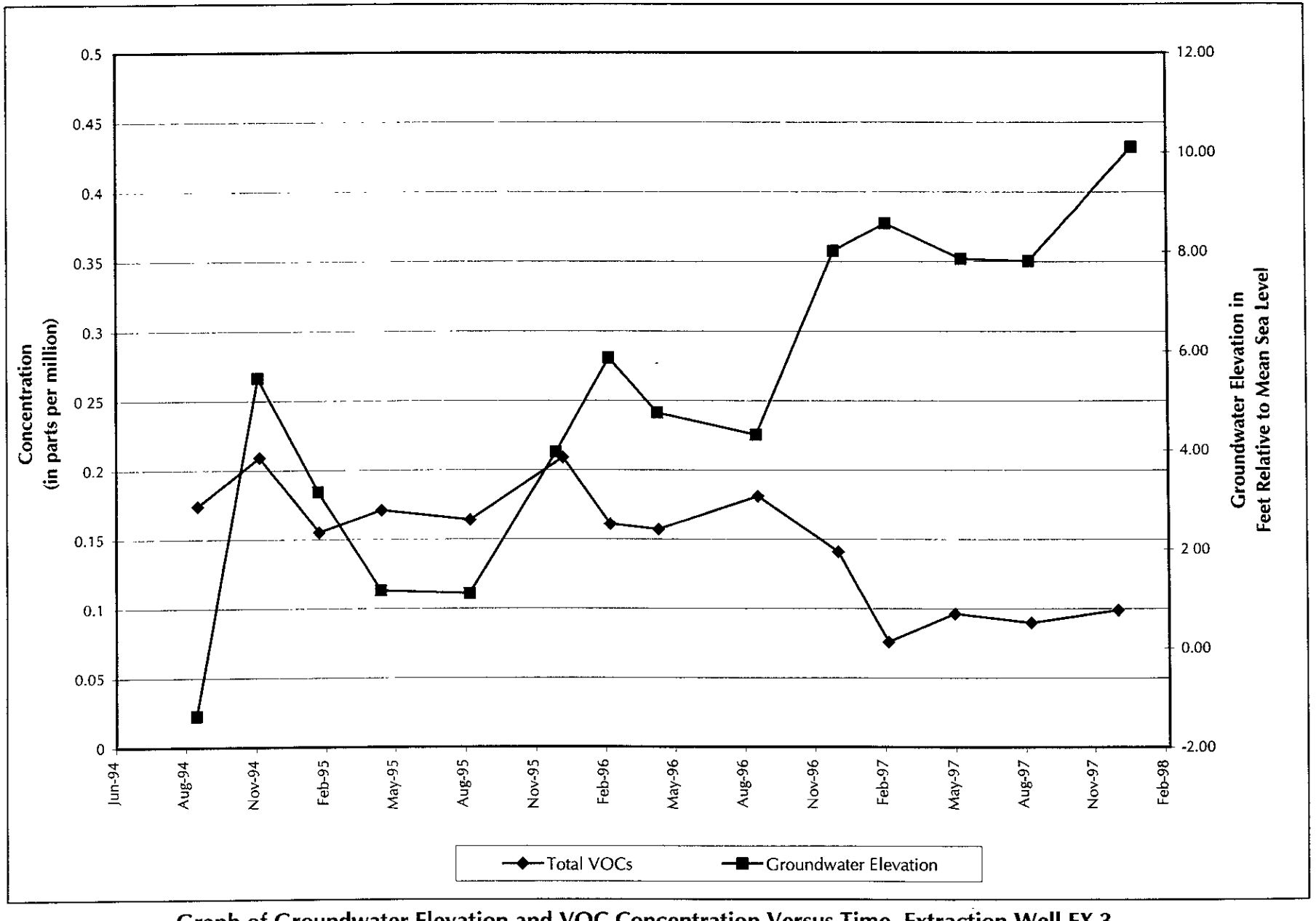


Graph of Groundwater Elevation and VOC Concentration Versus Time, Monitoring Well LF-23

Levine•Fricke•Recon

Figure 8

Project No. 1649

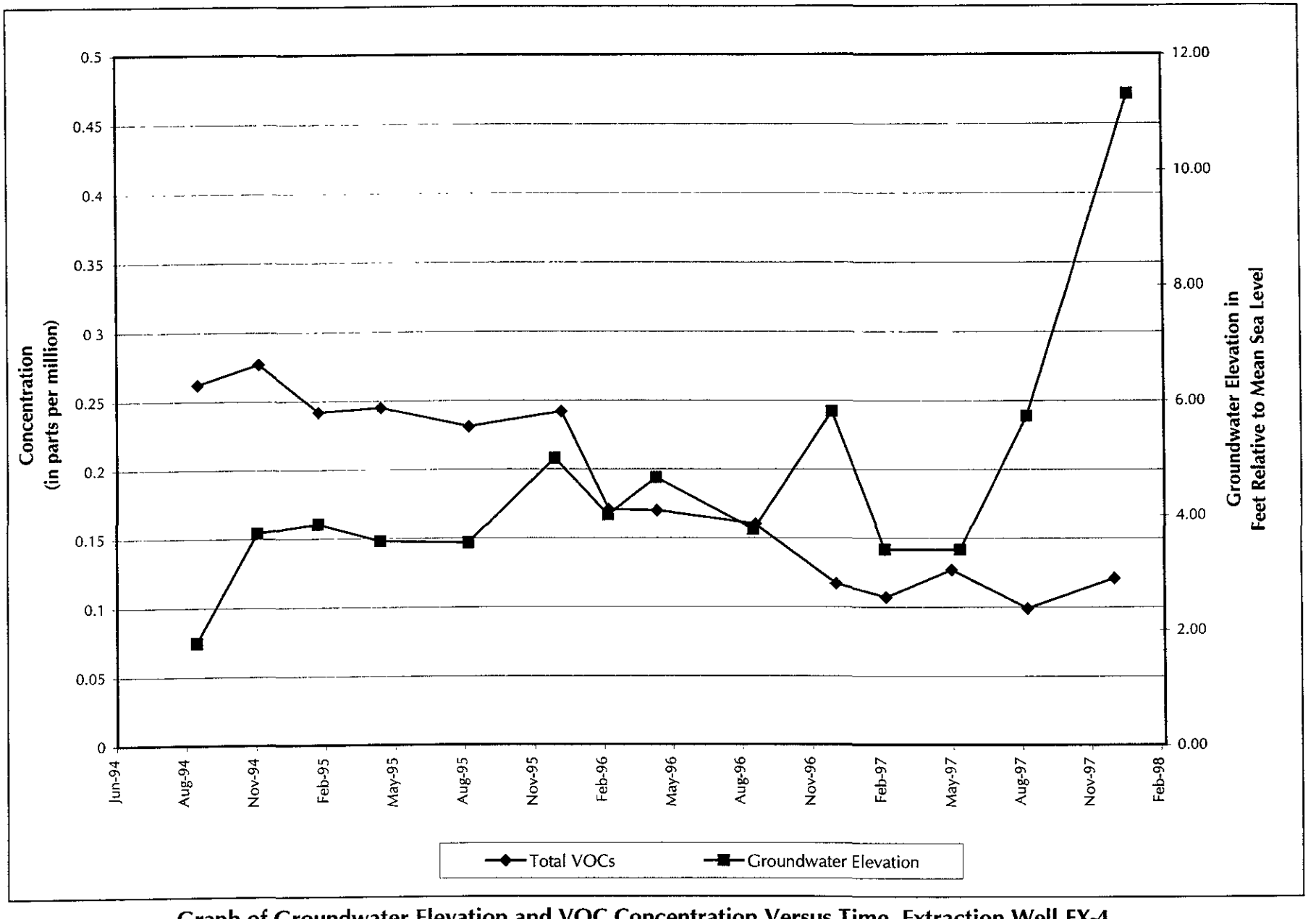


Graph of Groundwater Elevation and VOC Concentration Versus Time, Extraction Well EX-3

Levine•Fricke•Recon

Figure 9

Project No. 1649

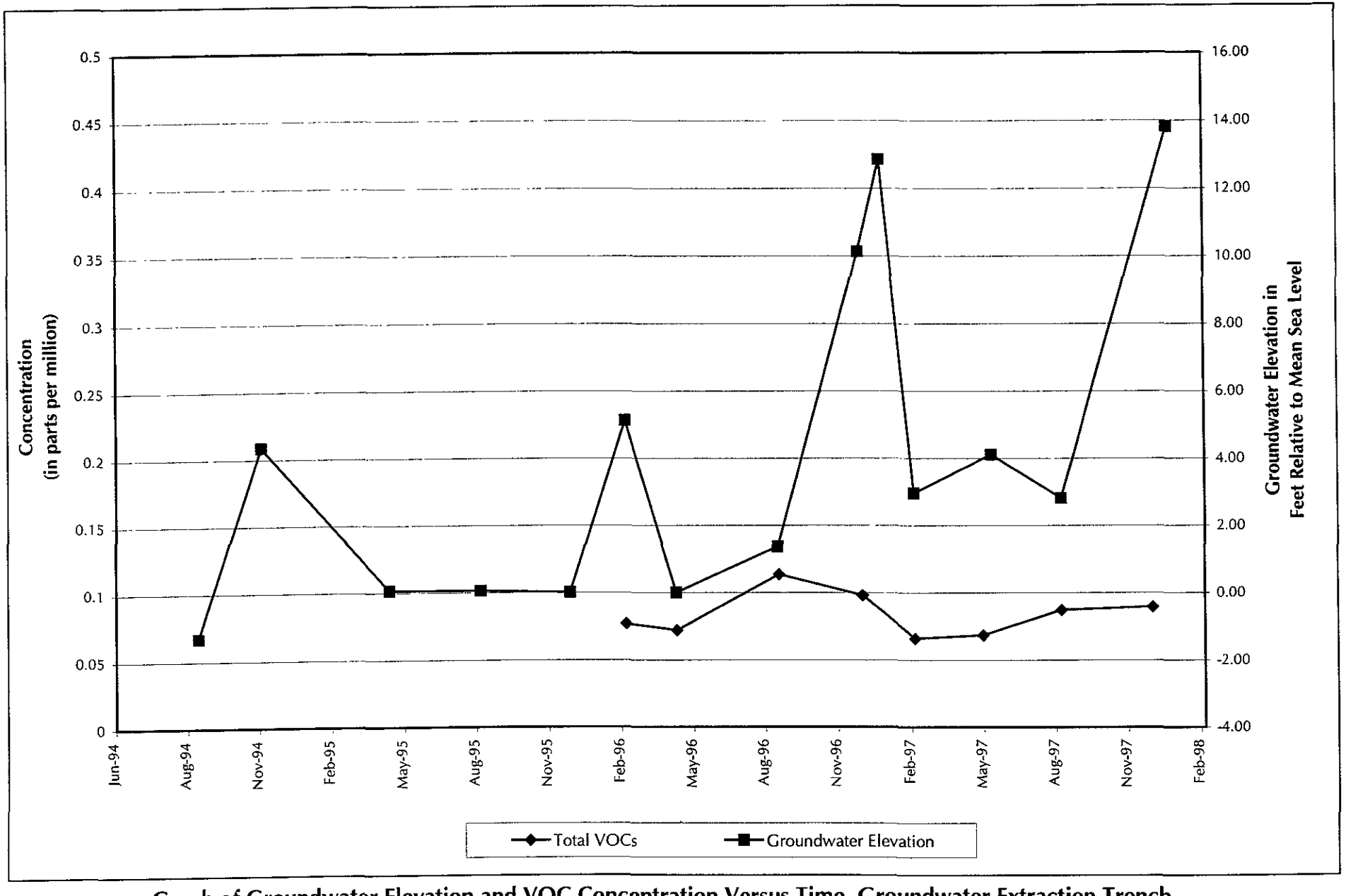


Graph of Groundwater Elevation and VOC Concentration Versus Time, Extraction Well EX-4

Levine•Fricke•Recon

Project No. 1649

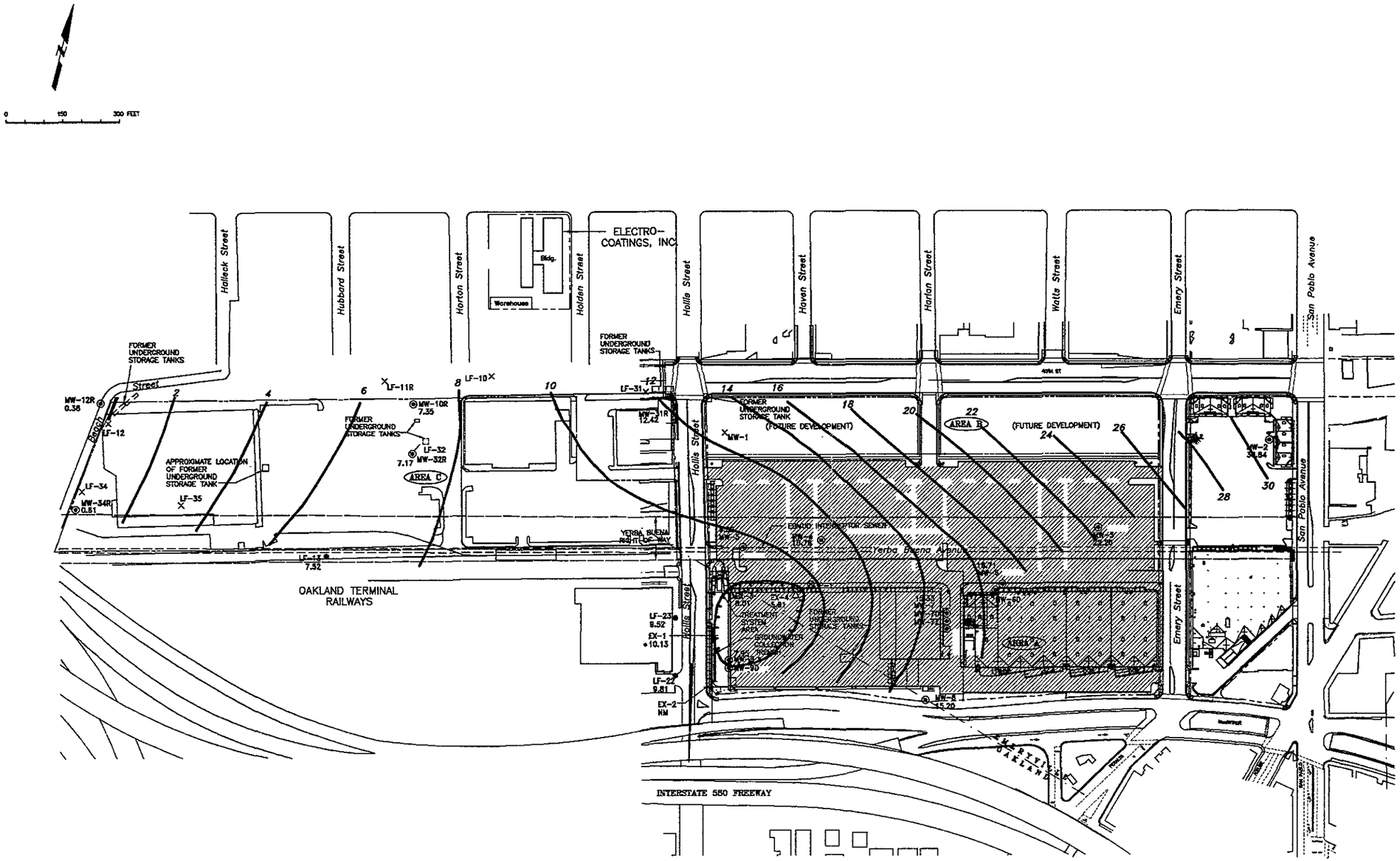
Figure 10



Graph of Groundwater Elevation and VOC Concentration Versus Time, Groundwater Extraction Trench

Appendix A

Site Plans Showing Groundwater Elevations in Shallow Wells for 1997 (four maps)



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- △ EXTRACTION WELL
- ⊗ PROPOSED MONITORING WELL LOCATION
- × ABANDONED GROUNDWATER MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (FEET MSL)
- APPROXIMATE PROPERTY LINE
- 29.31 GROUNDWATER ELEVATION
- APPROXIMATE LOCATION OF PETROLEUM-AFFECTED SOIL CONTAINED ON SITE
- • ELEVATION NOT USED IN CONTOURING
- DEPRESSION IN GROUNDWATER ELEVATION
- NM NOT MEASURED

△	REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE : _____
DESIGN : _____
DRAWN : _____
CHECKED : _____

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ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS
Emeryville, California

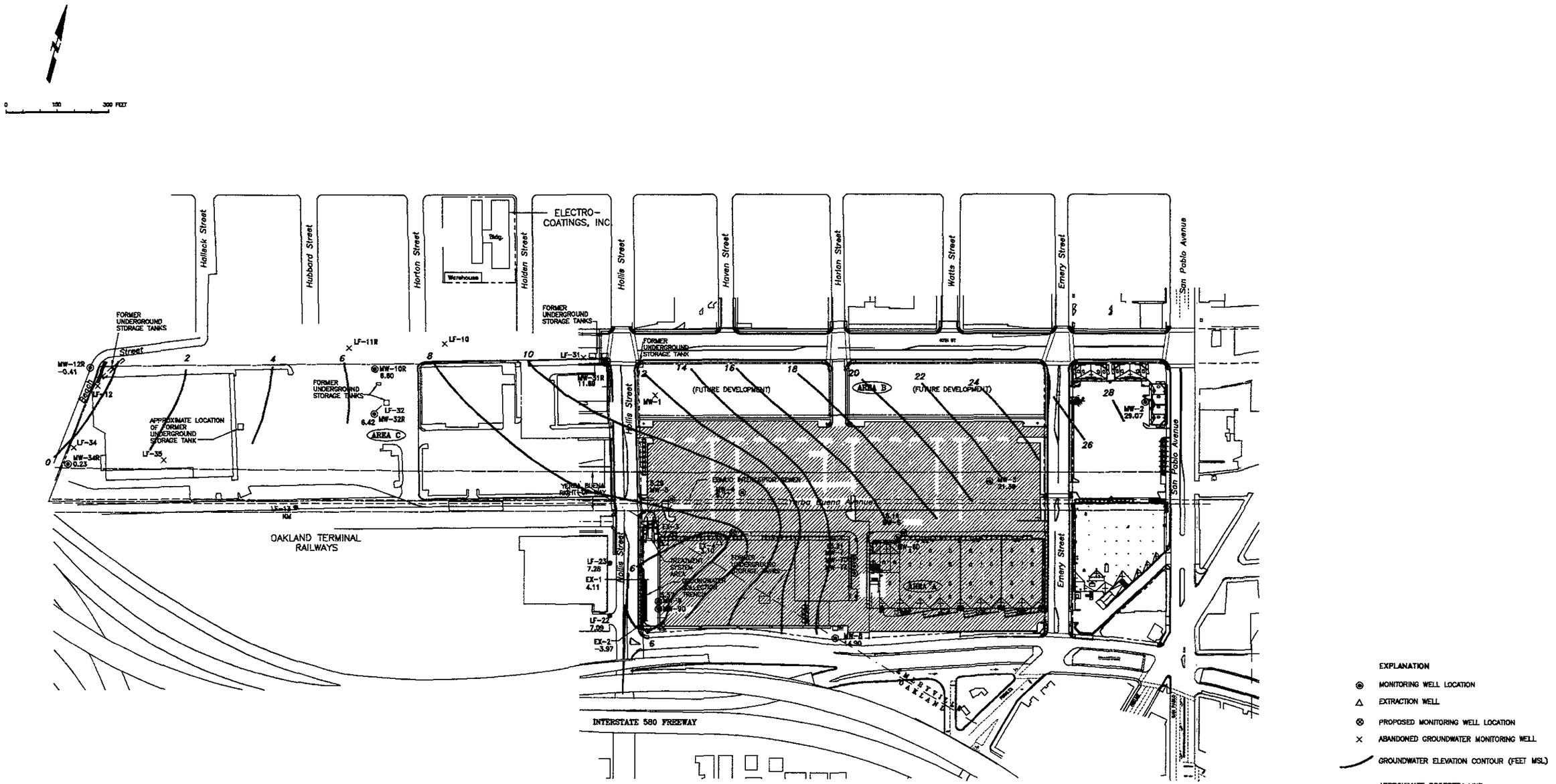
CATELLUS DEVELOPMENT CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure A-1
SITE PLAN SHOWING
GROUNDWATER ELEVATIONS IN SHALLOW WELLS
DECEMBER 13, 1996

Project No 1649
Date JAN. 97
Sheet of

DRAWING CODE J:\ENGCAD\1649\STBASE2.DWG



EXPLANATION

- MONITORING WELL LOCATION
- EXTRACTION WELL
- PROPOSED MONITORING WELL LOCATION
- ABANDONED GROUNDWATER MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (FEET MSL)
- APPROXIMATE PROPERTY LINE
- 29.31 GROUNDWATER ELEVATION
- APPROXIMATE LOCATION OF PETROLEUM-AFFECTED SOIL CONTAINED ON SITE
- NM NOT MEASURED

△	REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE :
DESIGN
DRAWN :
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Emeryville, California

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Figure A-2
SITE PLAN SHOWING
GROUNDWATER ELEVATIONS IN SHALLOW WELLS
MAY 26, 1997

Project No 1649
Date JUNE 97
Sheet of

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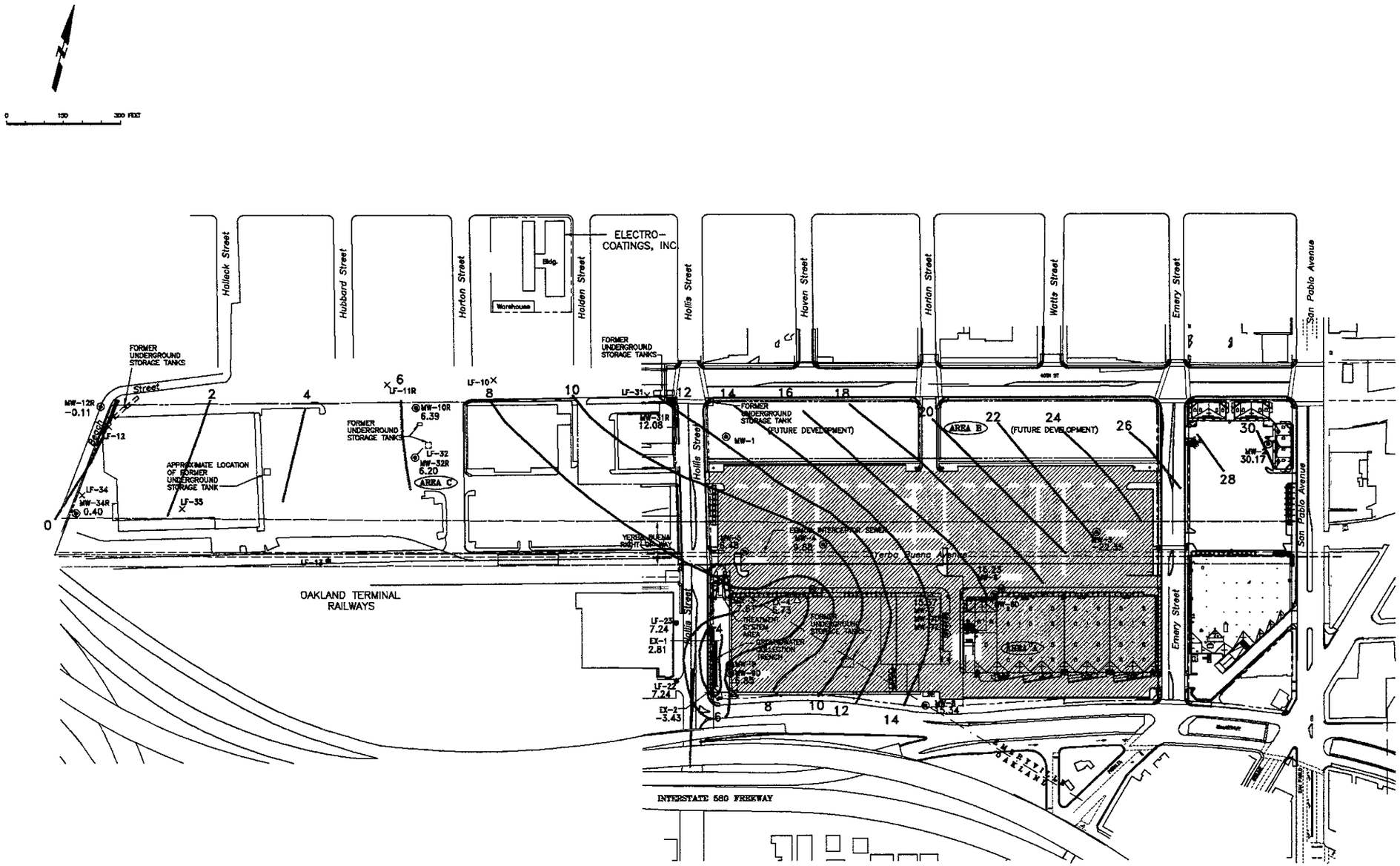

△	REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE
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DRAWN
CHECKED

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Emeryville, California

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YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure A-3
SITE PLAN SHOWING GROUNDWATER ELEVATIONS IN SHALLOW WELLS AUGUST 21, 1997

Project No 1649
Date OCT. 97
Sheet of

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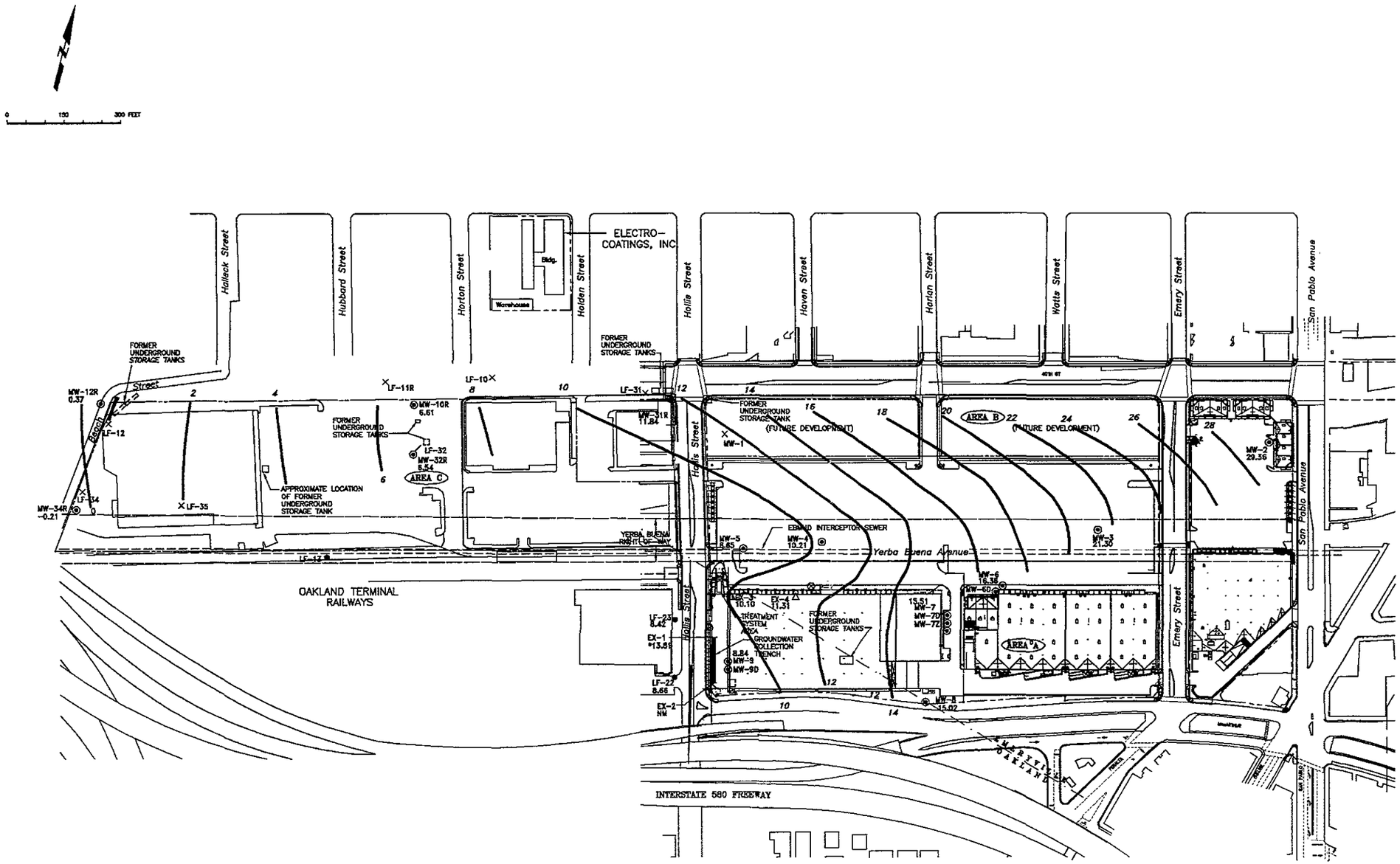

△	REVISION	DESIGN	DRAWN	CHECKED	DATE

SCALE :
DESIGN :
DRAWN :
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Emeryville, California

CATELLUS DEVELOPMENT CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure A-4
SITE PLAN SHOWING
GROUNDWATER ELEVATIONS IN SHALLOW WELLS
JANUARY 2, 1998

Project No. 1649
Date JAN. 98
Sheet of

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Appendix B

Sample Collection Procedures

SAMPLE COLLECTION PROCEDURES

Before sample collection, depth to static water will be measured in each well and the volume of water in the well casing calculated. Purging and sampling equipment will be steam cleaned before use at each well. Three to five well casing volumes of groundwater will then be purged from each well using a centrifugal pump or a bailer until indicator parameter readings (pH, specific conductance, and temperature) have stabilized. Indicator parameters will be measured using portable field instruments and measurements will be recorded on water-quality sampling forms. If a well is pumped dry during purging, it will be allowed to recover to 80 percent of the original volume (or after maximum of 2 hours) and will be sampled. Purged groundwater will be pumped into the on-site groundwater treatment system.

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

All samples will be labeled with the collector's initials, a unique sample identification number (well identification), time of sampling, date, location, analytical method, and preservative used, if any. Complete chain-of-custody forms will accompany the samples to the designated laboratory.

Groundwater samples will be submitted to a state-certified laboratory, under strict chain-of-custody protocol. For quality assurance/quality control measures, a duplicate sample will be collected from 10% of the samples collected.