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Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

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

July 31, 1997
1649.97-002

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

Levine·Fricke·Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

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July 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 April 1 through June 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 for April 1 through June 30, 1997, at the Yerba Buena/East Baybridge Center in Emeryville and Oakland, California.

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 on December 19, 1994.

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

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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.

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

7/29/97
Date

1.0 INTRODUCTION

This report presents the results of groundwater monitoring by Levine·Fricke·Recon Inc. (LFR) during the quarterly period from April 1 through June 30, 1997, at the East Baybridge Center in Emeryville and Oakland, California ("the Site"; Figure 1). LFR is performing groundwater monitoring and submitting this report on behalf of the Catellus Development Corporation ("Catellus") in accordance with a December 19, 1994 groundwater monitoring plan submitted to the Alameda County Health Care Services Agency (ACHA; LFR 1994c).

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).

A request for closure for the former Bay Area Warehouse and former Bashland Company sites located on Area C at the Site was sent to the ACHA on June 3, 1997. Based on a conversation with Ms. Susan Hugo of the ACHA during the week of June 16, 1997, samples were not collected from these sites during this quarterly period.

Quarterly monitoring at the Site includes measuring water levels in accessible wells and collecting groundwater samples from selected wells to monitor volatile organic compound (VOC) concentrations in groundwater and assess the effectiveness of a groundwater extraction system installed at the Site during the summer of 1994. In addition, soils affected with total petroleum hydrocarbons (TPH) have been contained on site beneath building pads, and monitoring data are being collected to assess possible effects on groundwater quality beneath the Site from the contained soils.

2.0 BACKGROUND

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 [a complete record of materials stored at the Site is not available]); 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 VOCs were present in shallow groundwater beneath the Site. During site development, underground storage tanks (USTs) were excavated at 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 agency 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 in January 1992 to monitor VOC concentrations in groundwater in Area A. 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 an LFR quarterly self-monitoring report submitted semiannually to the East Bay Municipal Utilities District.

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 an LFR containment plan (LFR 1992a). The removal of soil from this area of the Site was described in LFR's soil remediation activities report for the Site (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 the contained soils (LFR 1994b). 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. One smaller retail store has yet to be constructed in this portion of the development.

VOCs have been detected in groundwater samples collected in Area C of the Site. The distribution of VOCs detected indicates that the VOCs have likely migrated from an off-site source. The RWQCB concurs with this conclusion, according to its letter to Catellus and others dated May 11, 1994.

Several USTs were identified at various locations within Area C during environmental 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 destroyed during site development in June 1994, along with the other wells located west of Hollis Street (except well LF-13).

Replacement wells for those 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 at locations presented on Figure 2 to monitor possible on-site migration of VOCs from a known source located north of the property.

3.0 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

On May 26, 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 6.61 feet below ground surface (bgs) in well MW-10.

3.1 Areas A and B

Figure 3 is a groundwater elevation contour map illustrating water levels measured on May 26, 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 3 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 3, 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 on May 15 and 16, 1997, for chemical analysis. A total of 17 samples were collected from 13 shallow groundwater monitoring wells (less than 25 feet bgs; MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10R, MW-12R, MW-34R, 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).

Before groundwater samples were collected, 3 to 4 well volumes of water was 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, a California state certified laboratory, located in Pleasant Hill, California, under strict chain-of-custody protocols.

Samples were analyzed as follows:

- Samples from wells MW-3, MW-4, MW-5, MW-6, MW-6D, MW-7, MW-7D, MW-7Z, MW-8, MW-9, MW-9D, MW-10R, MW-12R, MW-34R, LF-22, LF-23, EX-3, EX-4, and the groundwater collection trench were analyzed for VOCs using EPA Method 8010.
- Samples from wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-12R, EX-3, EX-4, and the collection trench were 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).
- The sample from well MW-2 was analyzed for TPHd. This sample was also analyzed for TPH as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) to monitor whether TPHg-affected groundwater is migrating onto the Site. Results of chemical analyses are discussed in Section 5.0.

For QA/QC purposes, a duplicate sample was collected from well MW-8 and analyzed for VOCs. Results of the duplicate sample were similar to results of the primary sample. A summary of the analytical and sampling QA/QC for samples collected during this quarterly monitoring period is included as Appendix B.

5.0 GROUNDWATER QUALITY

Table 2 summarizes the analytical results for groundwater samples collected.

5.1 Volatile Organic Compounds

In general, the concentrations of VOCs detected in samples collected during this monitoring period are within the same order of magnitude as samples previously collected at the Site (Table 2). 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.

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; well MW-5) to 0.230 ppm (well MW-7) and at concentrations of 0.082 ppm, 0.110 ppm, and 0.060 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 0.0023 ppm.

Trichloroethene (TCE) was detected in the samples collected from five shallow monitoring wells at concentrations ranging from 0.0006 ppm in well MW-5 to 0.500 ppm in well MW-10R.

Tetrachloroethene (PCE) was detected in samples collected from shallow monitoring well MW-5 at a concentration of 0.0021 ppm and off-site well LF-23 at 0.0021 ppm. Concentrations of PCE were detected in the samples collected from shallow extraction wells EX-3 (0.0048 ppm), EX-4 (0.008 ppm), and the collection trench (0.0018 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-5, MW-6, MW-7, and MW-9 at concentrations of 0.0005 ppm, 0.018 ppm, 0.014 ppm, and 0.0056 ppm, respectively. 1,1,1-TCA was also detected in samples collected from shallow extraction wells EX-3 (0.007 ppm), EX-4 (0.006 ppm), and the collection trench (0.0041 ppm).

5.2 Total Petroleum Hydrocarbons

TPHd was detected in samples collected from nine wells analyzed this monitoring period at concentrations ranging from 0.08 ppm (collection trench) to 0.45 ppm (MW-4). TPHg was detected at 0.46 ppm in the sample collected from well MW-2. The sample collected from well MW-2 contained benzene (0.0033 ppm), ethylbenzene (0.035 ppm), and total xylenes (0.059 ppm).

5.2.1 Former Bashland Company Property

Well LF-31 was replaced by well LF-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 the response to a request for case closure that was submitted to the ACHA on June 3, 1997, and 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 LF-32R in November 1995. The location of LF-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 the response to a request for case closure that was submitted to the ACHA on June 3, 1997, and a telephone conversation with Ms. Susan Hugo during the week of June 16, 1997.

6.0 SUMMARY

Groundwater gradient and flow direction measured in May 1997 are consistent with the groundwater flow direction previously reported for the Site (LFR 1996). Analytical results for groundwater samples collected in May 1997 are similar to results previously reported for the Site (Table 2). 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. Analysis of samples from well MW-2 indicate that TPHg-affected groundwater is migrating onto the property from the east.

7.0 ACTIVITIES PROPOSED FROM JULY TO SEPTEMBER 1997

Groundwater monitoring planned for July through September 1997 include water-level measurements and quarterly groundwater sampling. The sampling schedule is summarized in Table 3. LFR anticipates submitting a report summarizing those activities to the ACHA by October 31, 1997.

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.

———. 1996. Quarterly Monitoring Report for April 1 through June 30, 1996, 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
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
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
				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

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Emeryville and Oakland, California

Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				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
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
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
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
				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
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

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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	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
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
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
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
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

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Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
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
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
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
LF-22	17.99	20	10-20	12-Sep-94	11.96	6.03
				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
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

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Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
				26-May-97	10.71	7.28
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
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
				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
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
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

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	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
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
				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
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
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

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)
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
				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

Data entered by TGL. Proofed by JCK.

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 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million (ppm))

Well ID	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	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
MW-1			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
MW-1			17-Feb-95	AEN	<0.05	0.08	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-1			09-May-95	AEN	<0.05	0.20	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-1			31-Aug-95	AEN	<0.05	0.30	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-1			27-Dec-95	AEN	<0.05	0.10	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-1			27-Feb-96	AEN	<0.05	0.18	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-1			01-May-96	AEN	<0.05	0.10	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-1			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	MW-2		01-Dec-94	AEN	7.10	NA	0.065	<0 01	0.13	0.47	NA	NA	NA	NA	NA	NA	NA
MW-2			17-Feb-95	AEN	3.50	0.30	0.045	0.005	0.11	0.35	NA	NA	NA	NA	NA	NA	NA
MW-2			09-May-95	AEN	3.50	0.20	0 025	0.009	0.085	0.25	NA	NA	NA	NA	NA	NA	NA
MW-2			31-Aug-95	AEN	0.90	0.20	0.011	<0.0005	0.032	0.072	NA	NA	NA	NA	NA	NA	NA
MW-2			20-Dec-95	AEN	2.60	<0.05	0.016	0.002	0.079	0.24	NA	NA	NA	NA	NA	NA	NA
MW-2			27-Feb-96	AEN	4.10	0.20	0.076	0.0095	0.21	0.62	NA	NA	NA	NA	NA	NA	NA
MW-2			01-May-96	AEN	2.40	0.23	0.039	0.0047	0.098	0.26	NA	NA	NA	NA	NA	NA	NA
MW-2			04-Sep-96	AEN	0.54	0.22	0.0024	<0.0005	0.018	0.045	NA	NA	NA	NA	NA	NA	NA
MW-2			17-Dec-96	A2AC	0.776	<0.010	0.004	0.009	0.011	0.019	NA	NA	NA	NA	NA	NA	NA
MW-2			18-Feb-97	AEN	1.2	0.24	0.015	0.0009	0.057	0.140	NA	NA	NA	NA	NA	NA	NA
MW-2			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	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
MW-3			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
MW-3			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-3			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
MW-3			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-3			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
MW-3			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-3			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-3			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
MW-3			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
MW-3			18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-3		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
MW-3			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
MW-4	MW-4		01-Dec-94	AEN	NA	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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			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
MW-4			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
MW-4			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	0.0022	<0.0005	<0.0005
MW-4			04-Sep-96	AEN	NA	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4		(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
MW-4			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	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
MW-5			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
MW-5			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.001	0.002	0.008	0.003	<0.0005	<0.0005
MW-5			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
MW-5			31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	0.0007	0.002	0.002	0.013	0.004	<0.0005	<0.0005
MW-5			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
MW-5			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0.0024	0.010	0.0029	<0.0005	<0.0005
MW-5			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.001	0.0051	0.0021	<0.0005	<0.0005
MW-5			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
MW-5			17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	0.002	0.005	0.002	<0.001	<0.001
MW-5			18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0009	0.0079	0.002	<0.0005	<0.0005
MW-5			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
MW-6	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
MW-6		(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
MW-6			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.039	<0.003	0.280	0.003	<0.003	<0.003
MW-6	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
MW-6			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
MW-6			31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.032	<0.003	0.270	0.004	<0.003	<0.003
MW-6			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
MW-6			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.005	0.031	<0.005	0.270	<0.005	<0.005	<0.005
MW-6			01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.026	<0.003	<0.200	0.003	<0.003	<0.003
MW-6			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
MW-6			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
MW-6			18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.029	<0.003	0.260	0.003	<0.003	<0.003
MW-6			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
MW-7	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
MW-7			30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.170	0.003	<0.0005	<0.0005
MW-7			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.011	<0.003	0.120	<0.003	<0.003	<0.003
MW-7			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

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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-7			30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.012	<0.003	0.140	0.003	<0.003	<0.003
MW-7			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
MW-7			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.018	<0.003	0.210	0.0035	<0.003	<0.003
MW-7	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
MW-7			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.016	<0.003	0.220	0.003	<0.003	<0.003
MW-7			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
MW-7			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
MW-7			19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.007	<0.003	0.150	<0.003	<0.003	<0.003
MW-7			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
MW-8	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
MW-8			02-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8			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-8			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-8			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-8			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8			29-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8			04-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8			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			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-8			15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-8	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
MW-9	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
MW-9	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
MW-9			30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.016	<0.0005	0.150	0.0005	<0.0005	<0.0005
MW-9	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
MW-9			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.014	<0.003	0.120	<0.003	<0.003	<0.003
MW-9			08-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.013	<0.0005	0.110	0.005	<0.0005	<0.0005
MW-9			31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.013	<0.003	0.130	0.004	<0.003	<0.003
MW-9			20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.003	0.009	<0.003	0.092	<0.003	<0.003	<0.003
MW-9			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0099	<0.0005	0.087	0.0035	<0.0005	<0.0005
MW-9			03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0083	<0.0005	0.099	0.0030	<0.0005	<0.0005
MW-9	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
MW-9			17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	0.005	<0.001	0.059	0.002	<0.001	<0.001
MW-9		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
MW-9			19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.008	<0.0005	0.087	0.0023	<0.0005	<0.0005

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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-9			15-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	0.0056	<0.0005	0.063	0.0025	<0.0005	<0.0005
MW-10R	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
MW-10R		(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
MW-10R		(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
MW-10R			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	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
MW-12R			27-Feb-96	AEN	<0.05	0.36	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-12R		(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*
MW-12R			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
MW-12R			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	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
MW-31R			27-Feb-96	AEN	<0.05	0.37	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-31R		(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
MW-31R			05-Sep-96	AEN	NA	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R			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
MW-31R			19-Feb-97	AEN	NA	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	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
MW-32R			27-Feb-96	AEN	<0.05	0.26	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA
MW-32R		(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
MW-32R			05-Sep-96	AEN	NA	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R		(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
MW-32R			19-Feb-97	AEN	NA	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R	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
MW-34R		(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
MW-34R			17-Dec-96	AEN	NA	NA	NA	NA	NA	NA	0.018	<0.001	<0.001	0.002	<0.001	<0.001	0.005
MW-34R		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	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
LF-13			28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	0.006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-13			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	0.0031	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-13	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
LF-13		(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

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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
LF-22	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
LF-22			07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.009	0.0037	0.041	0.0054	0.0011	<0.0005
LF-22			16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0026	0.0018	0.015	0.0021	<0.0005	<0.0005
LF-22		(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
LF-22			20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	0.0008	0.0013	0.0007	0.014	0.004	<0.0005	<0.0005
LF-22			25-May-93	ANA	NA	NA	NA	NA	NA	NA	<0.0005	0.0008	0.0006	0.0061	0.0024	<0.0005	<0.0005
LF-22			13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	0.0007	0.001	0.0009	0.0077	0.0033	<0.0005	<0.0005
LF-22		(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
LF-22			01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0006	0.0009	<0.0005	<0.0005
LF-22			17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0006	0.0007	0.001	<0.0005	<0.0005
LF-22			09-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0007	0.0007	<0.0005	<0.0005
LF-22	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
LF-22		(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
LF-22	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
LF-22			20-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-22		(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
LF-22		(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
LF-22			04-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			17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0 001	<0.001	<0.001	<0.001
LF-22			18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LF-22			16-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	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
LF-23			07-Jan-92	ANA	NA	NA	NA	NA	NA	NA	0.007	0.0023	0.056	0.0034	0.012	0.0013	<0.0005
LF-23			16-Apr-92	ANA	NA	NA	NA	NA	NA	NA	0.0036	0.0007	0.020	0.0044	0.0044	0.0011	<0.0005
LF-23			23-Jul-92	ANA	NA	NA	NA	NA	NA	NA	0.0038	0.0013	0.029	0.0061	0.0044	0.0014	<0.0005
LF-23			20-Oct-92	ANA	NA	NA	NA	NA	NA	NA	0.0033	0.0005	0.023	0.0047	0.002	0.0015	<0.0005
LF-23			25-May-93	ANA	NA	NA	NA	NA	NA	NA	0.0042	0.0007	0.016	0.0035	0.0017	0.0019	<0.0005
LF-23			13-Jul-93	ANA	NA	NA	NA	NA	NA	NA	0.0081	0.0015	0.018	0.0074	0.0033	0.0051	<0.0005
LF-23			13-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	0.0006	0.002	0.003	0.0007	<0.0005
LF-23		(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
LF-23		(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
LF-23		(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
LF-23		(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
LF-23		(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
LF-23		(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
LF-23		(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
LF-23		(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

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Well ID	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
LF-23		(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
LF-23		(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
LF-23		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
	Shallow Extraction Wells (20 to 30 feet below grade)																
EX-3	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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-3			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
EX-4	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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EX-4			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
EXTR	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
EXTR			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
EXTR			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
EXTR			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
EXTR			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
EXTR			15-May-97		NA	0.08	NA	NA	NA	NA	<0.0005	0.0041	0.0018	0.060	0.0021	<0.0005	0.0006

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Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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
	Deeper Wells (40 to 45 feet below grade)																
MW-6D	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
MW-6D			01-Dec-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			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-6D			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-6D			28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			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-6D			18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6D			16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7D	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
MW-7D			30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	<0.0005	<0.0005
MW-7D			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.003	<0.0005	<0.0005	<0.0005
MW-7D			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-7D			30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.002	<0.0005	<0.0005	<0.0005
MW-7D			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-7D	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
MW-7D			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7D			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7D			03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	<0.0005
MW-7D			17-Dec-96	A2AC	NA	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	0.008	<0.001	<0.001	<0.001
MW-7D			19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	0.0009	<0.0005	0.0081	<0.0005	<0.0005	<0.0005
MW-7D			16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0025	<0.0005	<0.0005	0.0023	<0.0005	<0.0005	<0.0005
MW-9D	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
MW-9D			30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9D			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9D			08-May-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9D			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-9D			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-9D			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-9D			01-May-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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-9D			03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-9D			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-9D			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-9D			16-May-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	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
MW-7Z			30-Nov-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z			16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z			30-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z			28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z			27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z			30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z			03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-7Z		(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
MW-7Z			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-7Z			16-May-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Trip Blanks																
TB			17-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB			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
TB			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
TB			28-Dec-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB			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
TB			03-Sep-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB			19-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
TB			15-May-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	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	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	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	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-F	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	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	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	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

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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-8-FB	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-F	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

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

NOTES:

Key to abbreviations:

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

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.

Table 2
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	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

(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.
(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.

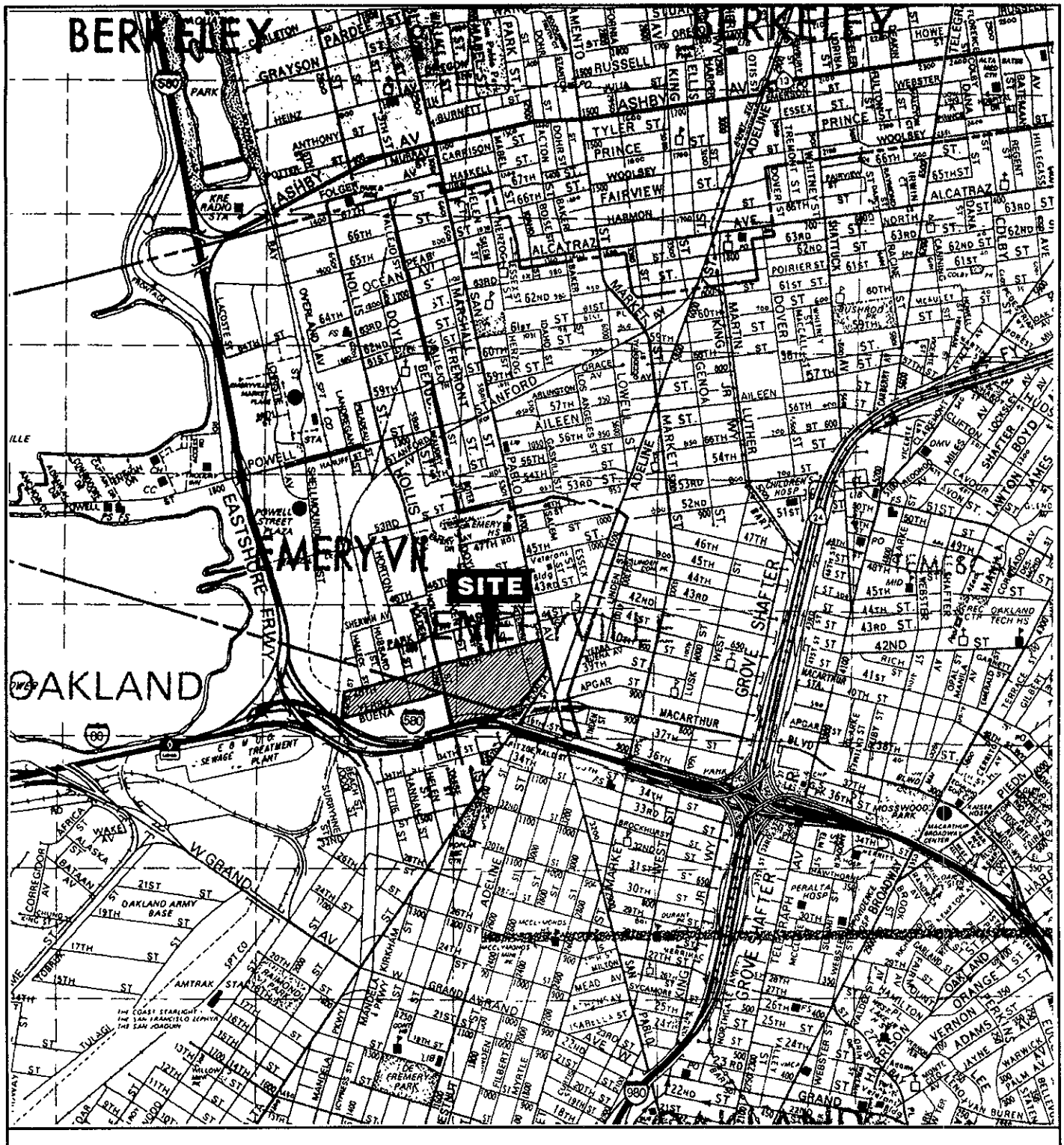
Table 3
Groundwater Sampling Schedule
East Baybridge Center
Emeryville and Oakland, California

Quarterly Period	Area	Well Depth	Well Identification	Analysis
JULY through SEPTEMBER 1997	Area A	20' to 25'	MW-2	TPHg, TPHd, BTEX
			MW-3, MW-5, MW-6, MW-7,	VOCs
			MW-8, MW-9, LF-22, LF-23	VOCs
			EX-3 & EX-4	TPHd, TPHo, VOCs
		40' to 45'	MW-6D, MW-7D, MW-9D	VOCs
		60'	MW-7Z	VOCs

NOTES:
The sampling proposed is in accordance with LFR'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

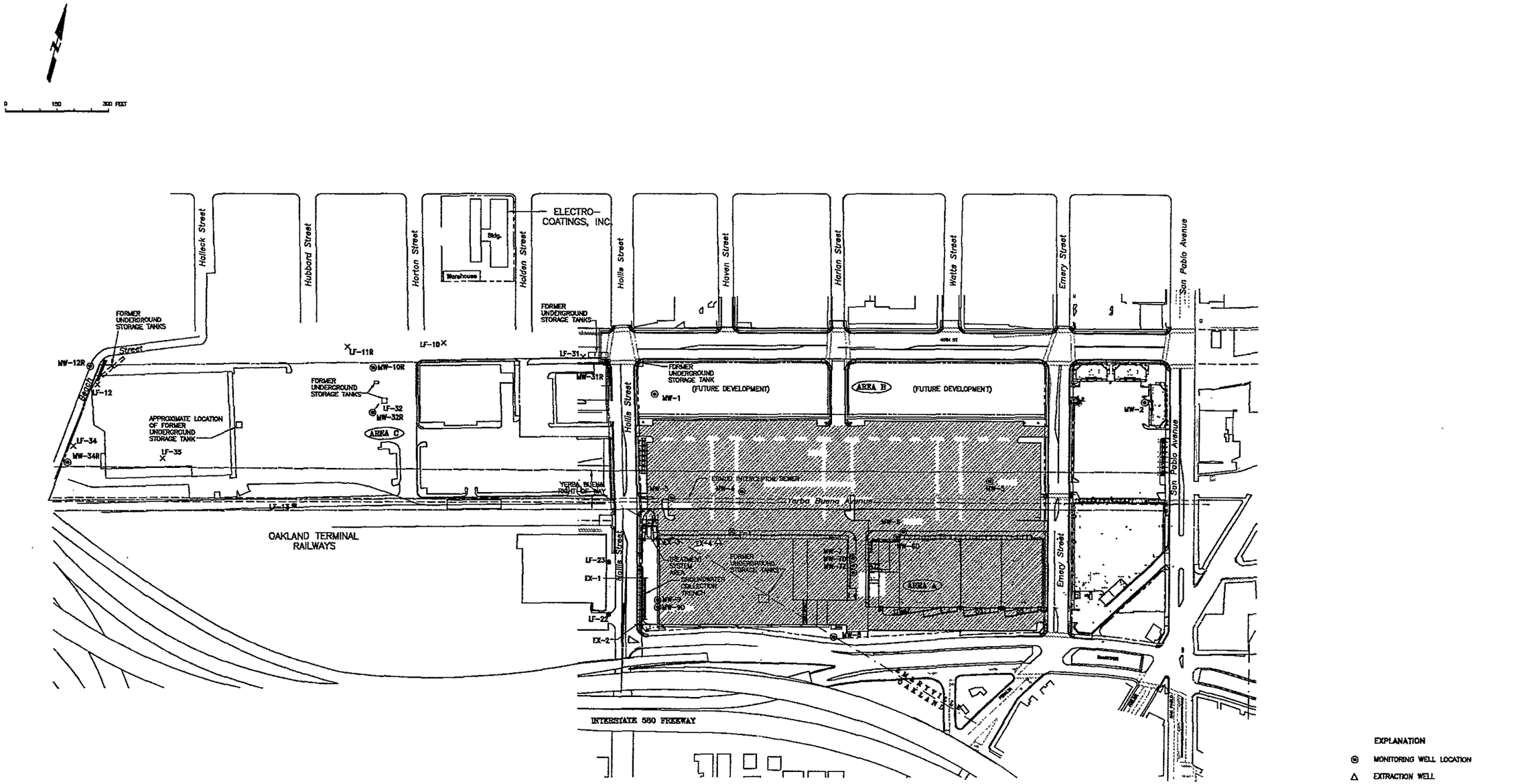
Site Location Map

Levine·Fricke·Recon

Figure 1

Project No. 1649

1649SV01.CDR 102296RYL:JCK



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- △ EXTRACTION WELL
- ⊗ PROPOSED MONITORING WELL LOCATION
- × ABANDONED GROUNDWATER MONITORING WELL
- APPROXIMATE AREA OF VOC-AFFECTED GROUNDWATER
- APPROXIMATE PROPERTY LINE
- 29.31 GROUNDWATER ELEVATION
- APPROXIMATE LOCATION OF PETROLEUM-AFFECTED SOIL CONTAINED ON SITE

△	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 OCT. 96
Sheet of

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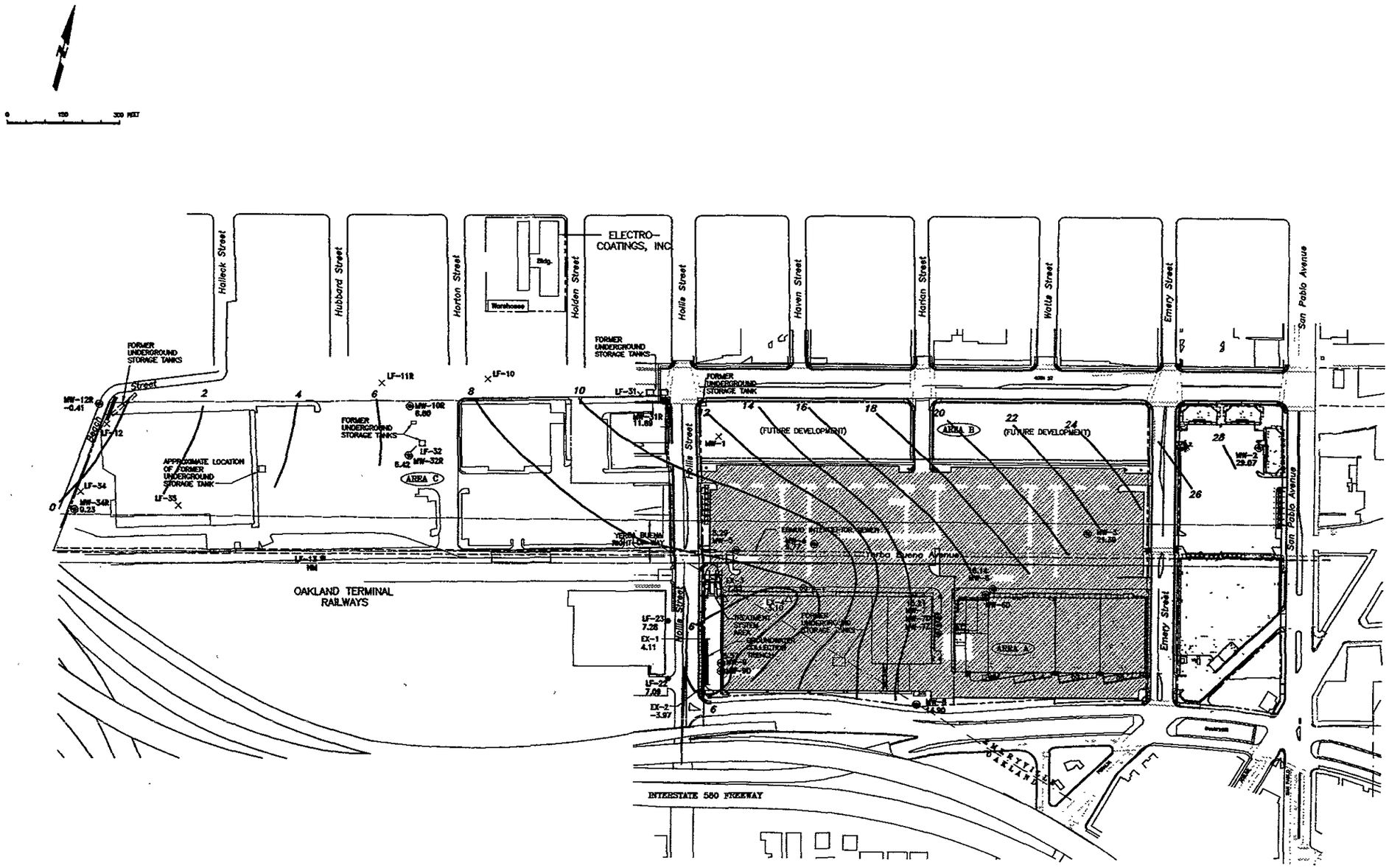

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Levine-Fricke-Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS
Emeryville, California

CATELLUS DEVELOPMENT CORPORATION

YERBA BUENA/EAST BAYBRIDGE DEVELOPMENT

Figure 3
SITE PLAN SHOWING
GROUNDWATER ELEVATIONS IN SHALLOW WELLS
MAY 26, 1997

Project No. 1649
Date JUNE 97
Sheet of

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. Three to five well-casing volumes of groundwater was then purged from each well using a centrifugal pump or a bailer until indicator parameter readings (pH, specific conductance, and temperature) stabilized. Indicator parameters were measured using portable field instruments and measurements were 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.

Groundwater samples were submitted to American Environmental Network, a California state-certified laboratory, under strict chain-of-custody protocols. For quality assurance/quality control, a duplicate sample was collected from well MW-8 and analyzed for VOCs using EPA Method 8010.

APPENDIX B

Summary of Analytical and Sampling QA/QC

Summary of Analytical QA/QC

Site Name:	Site Address:	Monitoring Period Covered:
East Baybridge	East Baybridge Center Emeryville and Oakland CA	January 1 through March 31, 1997

Analysis performed by:
Lab name: American Environmental Network
Lab address: 3400 Vincent Road, Pleasant Hill, CA 94523
Lab contact: Dean Peters
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)
- ☐ 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 oil by EPA Method 8015 modified
- ☒ TPH diesel by EPA Method 8015 modified

Is the lab state-certified for the above analytical method(s)?	☒ Yes ☐ No
Were analyses 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

Data entered by JCK. Data proofed by JCK. QA/QC by SXS.

* 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.

Summary of Sampling QA/QC

Site Name:	Site Address:	Monitoring Period Covered:
East Baybridge	East Baybridge Center Emeryville and Oakland CA	January 1 through March 31, 1997

Sampling performed by: Levine-Fricke-Recon
Firm name: Levine - Fricke - Recon
Firm address: 1900 Powell Street, Emeryville, CA
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:

Data entered by JCK. Data proofed by JCK. QA/QC by SXS.

Common Reporting Limits For Groundwater Analyses
Groundwater Treatment System

EPA 8010 Water Matrix	CAS #	Reporting Limits
Bromodichloromethane	75-27-4	3 mg/l
Bromoform	75-25-2	3 mg/l
Bromomethane	74-83-9	10 mg/l
Carbon Tetrachloride	56-23-5	3 mg/l
Chlorobenzene	108-90-7	3 mg/l
Chloroethane	75-00-3	10 mg/l
2-Chloroethyl Vinyl Ether	110-75-8	3 mg/l
Chloroform	67-66-3	3 mg/l
Chloromethane	74-87-3	10 mg/l
Dibromochloromethane	124-48-1	3 mg/l
1,2-Dichlorobenzene	95-50-1	3 mg/l
1,3-Dichlorobenzene	541-73-1	3 mg/l
1,4-Dichlorobenzene	106-46-7	3 mg/l
Dichlorodifluoromethane	75-71-8	10 mg/l
1,1-Dichloroethane	75-34-3	3 mg/l
1,2-Dichloroethane	107-06-2	3 mg/l
1,1-Dichloroethene	75-35-4	3 mg/l
cis-1,2-Dichloroethene	156-60-5	3 mg/l
trans-1,2-Dichloroethene	156-60-5	3 mg/l
1,2-Dichloropropane	78-87-5	3 mg/l
cis-1,3-Dichloropropene	10061-01-5	3 mg/l
trans-1,3-Dichloropropene	10061-02-6	3 mg/l
Methylene Chloride	75-09-2	10 mg/l
1,1,2,2-Tetrachloroethane	79-34-5	3 mg/l
Tetrachloroethene	127-18-4	3 mg/l
1,1,1-Trichloroethane	71-55-6	3 mg/l
1,1,2-Trichloroethane	79-00-5	3 mg/l
Trichloroethene	79-01-6	3 mg/l
Trichlorofluoromethane	75-69-4	10 mg/l
1,1,2-Trichlorotrifluoroetha	76-13-1	3 mg/l
Vinyl Chloride	75-01-4	10 mg/l

Common Reporting Limits For Groundwater Analyses
Groundwater Treatment System

EPA 8015 modified Total Extractable PetroleumHydrocarbons (TEPH)		
	CAS #	Reporting Limits
TEPH as Diesel		50 mg/l
TEPH as Gasoline		50 mg/l

EPA 504 (Modified)	CAS #	Reporting Limits
Dibromochloropropane (DBCP)		0.010 mg/l
Ethylene Dibromide (EDB)		0.020 mg/l

Inorganics	Method	Reporting Limits
Arsenic	EPA 206.2	0.002 mg/l
Cadmium	EPA 200.7	0.001 mg/l
Chromium	EPA 200.7	0.01 mg/l
Copper	EPA 200.7	0.002 mg/l
Lead	EPA 239.2	0.002 mg/l
Mercury	EPA 245.1	0.0002 mg/l
Nickel	EPA 200.7	0.002 mg/l
Selenium	EPA 270.2	0.004 mg/l
Silver	EPA 200.7	0.001 mg/l
Zinc	EPA 200.7	0.005 mg/l
Chromium, Hexavalent	SM 307B	0.01 mg/l
Ammonia-Nitrogen, Total	EPA 350.3	0.05 mg/l
Un-ionized Ammonia-N	EPA 350.3 cal	0.0003 mg/l
Total Dissolved Solids	EPA 160.1	10 mg/l
Turbidity	EPA 180.1	0.05 NTU