Texaco Refining
and Marketing Inc

108 Castro Boulevard
Richmond, CA 94801

ENVIRONMENTAL
PROTECTION
97 FEB -7 PM 2:57

February 4, 1997

ENV - STUDIES, SURVEYS, & REPORTS
1127 Lincoln Avenue, Alameda, California
Quarterly Monitoring Report

Ms. Juliet Shin
Alameda County
Hazardous Materials
1131 Harbor Bay Pky
Alameda, CA 94502-6577

Dear Ms. Shin:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on November 11, 1996, at the site referenced above (see Plate 1, Site Vicinity Map). Based on groundwater level measurements, the areal hydraulic gradient was estimated to be north-northeast (see Plate 2, Groundwater Gradient Map). TPHg and benzene concentrations are shown on Plate 3. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively.

The certified analytical report, chain-of-custody, field data sheets, bill of lading and quarterly summary report are in the Appendix. Texaco's Standard Operating Procedures may be found in the first quarter, 1995 monitoring report.

If you have any questions or comments regarding this site, please call the Texaco Project Coordinator, Ms. Karen Petryna at (510) 236-9139.

Best Regards,

Rebecca Digerness
Environmental Assistant

Karen E. Petryna, P. E.
Project Coordinator
Texaco Refining and Marketing, Inc.

REGISTERED PROFESSIONAL ENGINEER
KAREN E PETRYNA
C55126
exp 6-30-00
CIVIL
STATE OF CALIFORNIA

2/10/97

RBD hs

C:\QMR\1127L\QMR LET

Enclosure

cc: Mr. Richard Hiett
CRWQCB - San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94621

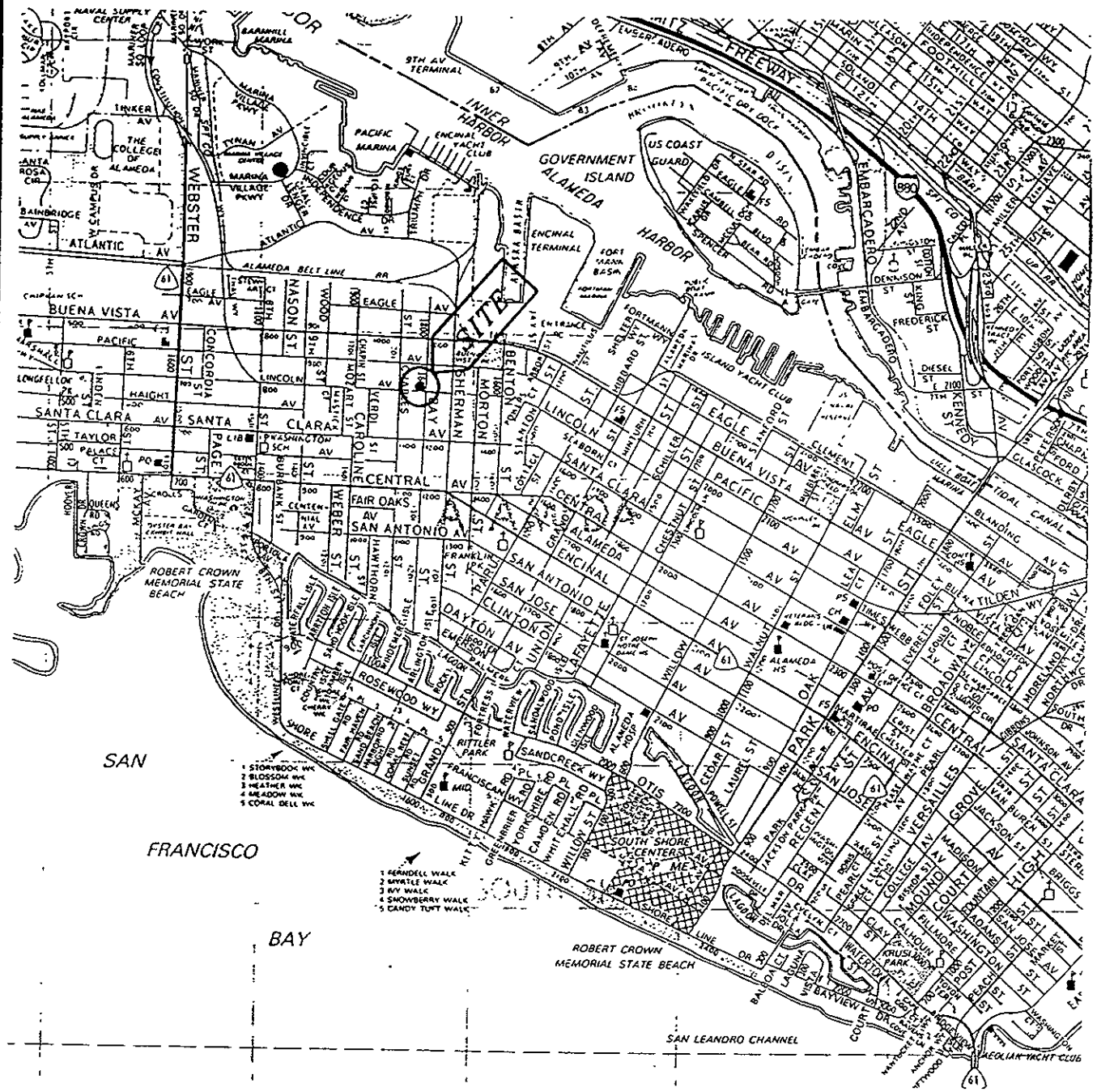
Mr. Leo Pagano
1127 Lincoln Avenue
Alameda, CA 94602

Mr. Sarkis Soghomonian
Kaprealian Engineering, Inc.
2401 Stanwell Dr., Suite 400
Concord, CA 94520

RRZielinski (w/o enclosure) RAOFile-UCPFile (w/enclosure)

pr:

GROUNDWATER MONITORING AND SAMPLING
Fourth Quarter, 1996
at the
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California



SOURCE

1993 THE THOMAS GUIDE
ALAMEDA COUNTY PAGE 61 (B3)

TEXACO

REFINING AND MARKETING INC
TEXACO ENVIRONMENTAL SERVICES

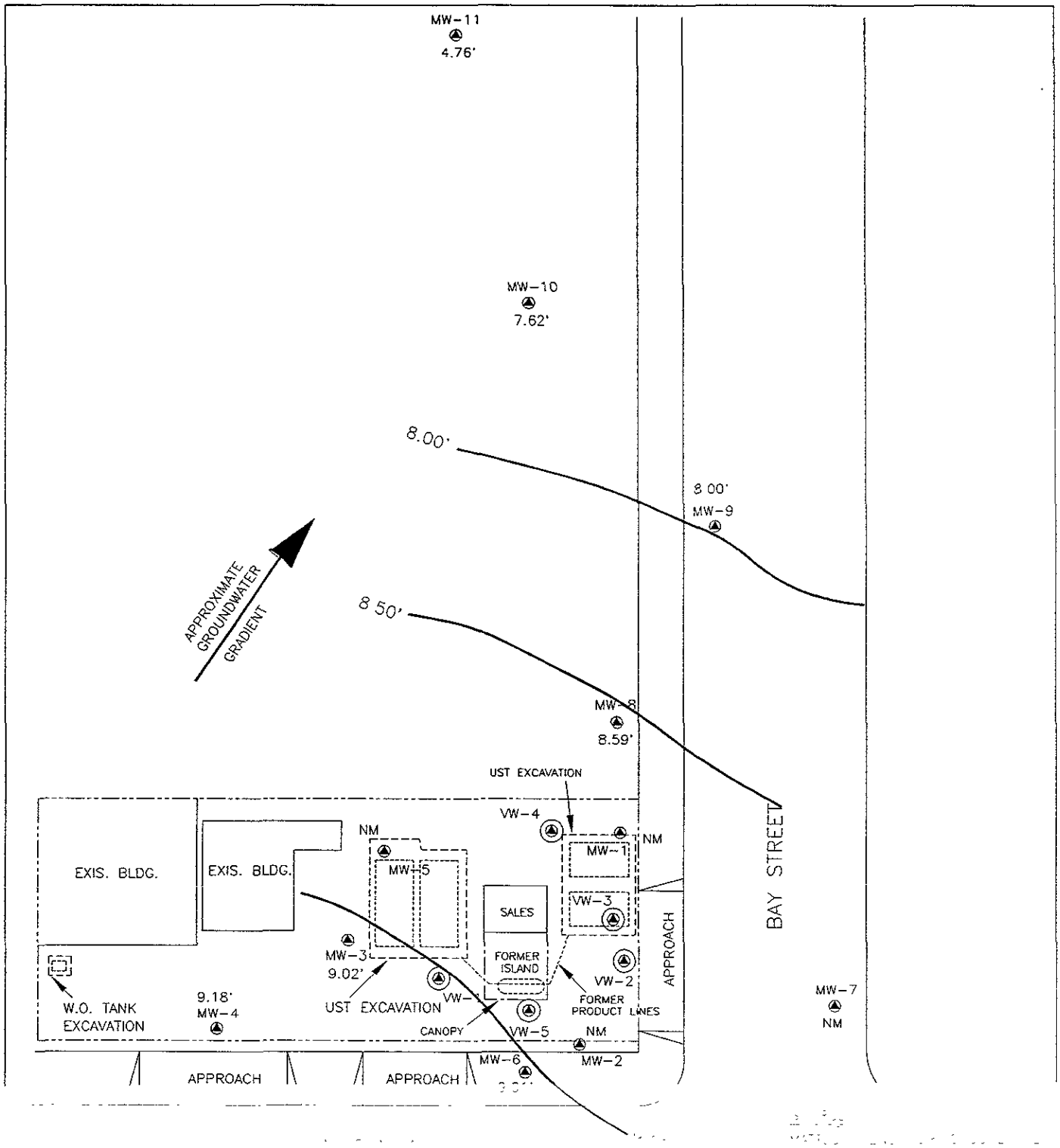
PLATE 1

SITE VICINITY MAP

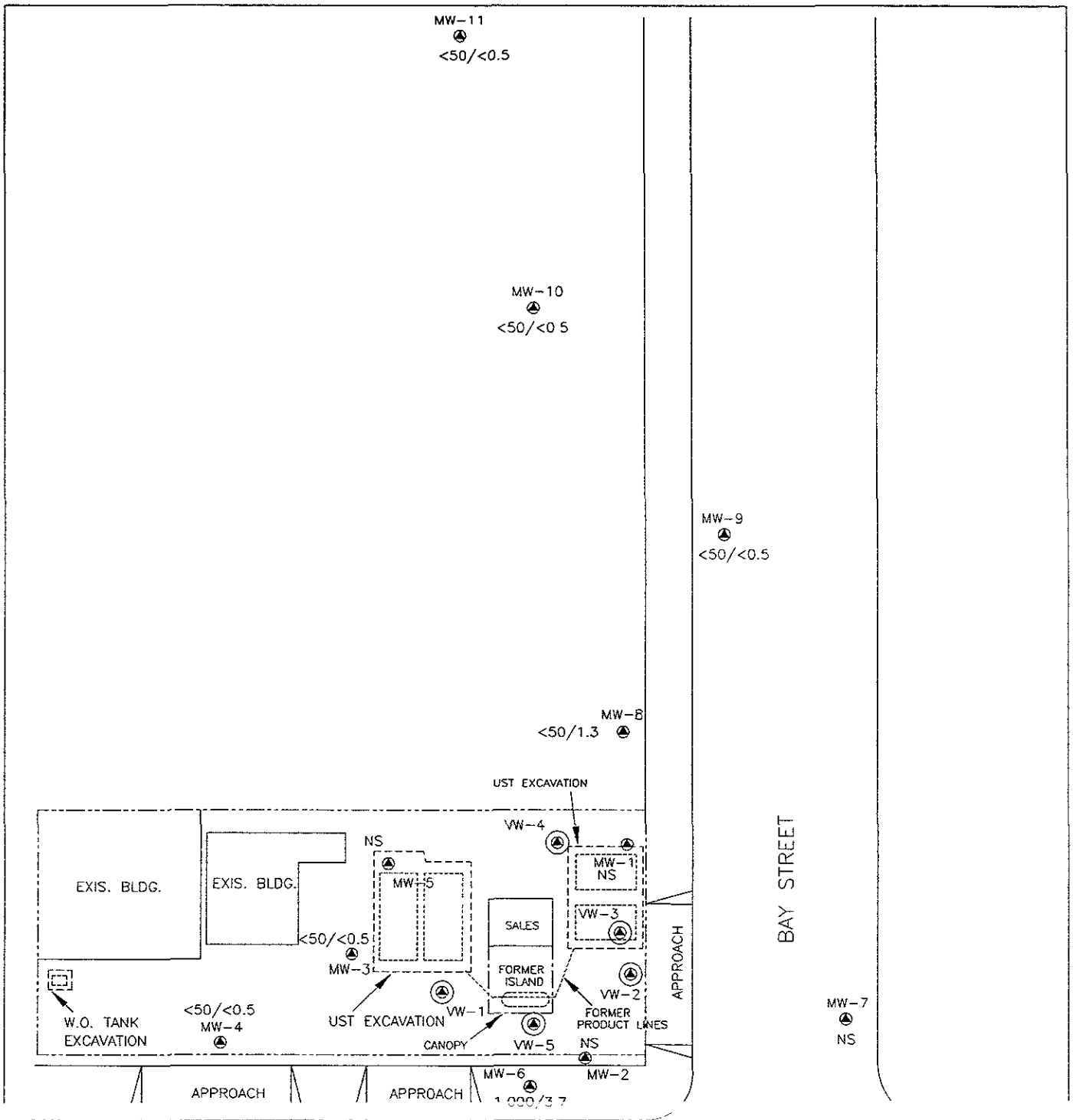
TOPMITE TEXACO SERVICE STATION

1175 LINCOLN AVE / BAY ST

ALAMEDA, CALIFORNIA


MW-11
4.76'
MW-10
7.62'
8.00'
8.00'
MW-9
8.50'
APPROXIMATE GROUNDWATER GRADIENT
MW-8
8.59'
UST EXCAVATION
VW-4
NM
NM
MW-1
MW-5
EXIS. BLDG.
EXIS. BLDG.
SALES
VW-3
BAY STREET
MW-3
9.02'
FORMER ISLAND
VW-2
APPROACH
W.O. TANK EXCAVATION
9.18'
MW-4
UST EXCAVATION
VW-
FORMER PRODUCT LINES
CANOPY
VW-5
NM
MW-7
NM
MW-6
MW-2
APPROACH
APPROACH

RBD
KRP
2-4-97


MW-11
<50/<0.5
MW-10
<50/<0 5
MW-9
<50/<0.5
MW-8
<50/1.3
UST EXCAVATION
VW-4
NS
MW-1
NS
MW-5
VW-3
SALES
FORMER
ISLAND
EXIS. BLDG.
EXIS. BLDG.
<50/<0.5
MW-3
VW-2
APPROACH
BAY STREET
W.O. TANK
EXCAVATION
<50/<0.5
MW-4
UST EXCAVATION
VW-1
FORMER
PRODUCT LINES
CANOPY
VW-5
NS
MW-7
NS
MW-6
MW-2
APPROACH
APPROACH

2-A-97

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casin Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	1/26/1993	16.14	5.63	10.51
MW-1	2/4/1993	16.14	6.02	10.12
MW-1	3/9/1993	16.14	5.92	10.22
MW-1	5/6/1993	16.14	6.76	9.38
MW-1	6/15/1993	16.14	6.81	9.33
MW-1	7/26/1993	16.14	Inaccessible - VES	
MW-1	8/31/1993	16.14	Inaccessible - VES	
MW-1	9/27/1993	16.14	Inaccessible - VES	
MW-1	10/19/1993	16.14	Inaccessible - VES	
MW-1	11/15/1993	16.14	Inaccessible - VES	
MW-1	12/17/1993	16.14	Inaccessible - VES	
MW-1	2/7/1994	16.14	Inaccessible - VES	
MW-1	5/20/1994	16.14	Inaccessible - VES	
MW-1	8/22/1994	16.14	7.78	8.36
MW-1	11/2/1994	16.14	Inaccessible - VES	
MW-1	2/14/1995	16.14	15.16	0.98
MW-1	5/19/1995	16.14	13.90	2.24
MW-1	8/22/1995	16.14	7.06	9.08
MW-1	10/25/1995	16.14	Inaccessible	
MW-1	2/9/1996	16.14	Inaccessible	
MW-1	4/11/1996	16.14	Inaccessible	
MW-1	8/1/1996	16.14	Inaccessible	
MW-1	11/11/1996	16.14	Inaccessible	
MW-2	1/26/1993	16.84	6.29	10.55
MW-2	2/4/1993	16.84	6.60	10.24
MW-2	3/9/1993	16.84	6.36	10.48
MW-2	5/6/1993	16.84	6.37	10.47
MW-2	6/15/1993	16.84	7.04	9.80
MW-2	7/26/1993	16.84	Inaccessible - VES	
MW-2	8/31/1993	16.84	Inaccessible - VES	
MW-2	9/27/1993	16.84	Inaccessible - VES	
MW-2	10/19/1993	16.84	Inaccessible - VES	
MW-2	11/15/1993	16.84	Inaccessible - VES	
MW-2	12/17/1993	16.84	Inaccessible - VES	
MW-2	2/7/1994	16 84	Inaccessible - VES	
MW-2	5/20/1994	16 84	Inaccessible - VES	
MW-2	8/22/1994	16 84	8 08	8 76
MW-2	11/2/1994	16 84	Inaccessible - VES	
MW-2	2/14/1995	16 84	Inaccessible - VES	
MW-2	5/19/1995	16 84	11 77	5 07

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casin Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-2	8/22/1995	16.84	7.22	9.62
MW-2	10/25/1995	16.84	12.11	4.73
MW-2	2/9/1996	16.84	Inaccessible	
MW-2	4/11/1996	16.84	11.20	5.64
MW-2	8/1/1996	16.84	7.00	9.84
MW-2	11/11/1996	16.84	Inaccessible	
MW-3	1/26/1993	16.86	5.82	11.04
MW-3	2/4/1993	16.86	6.01	10.85
MW-3	3/9/1993	16.86	5.88	10.98
MW-3	5/6/1993	16.86	6.38	10.48
MW-3	6/15/1993	16.86	Inaccessible - VES	
MW-3	7/26/1993	16.86	7.22	9.64
MW-3	8/31/1993	16.86	7.87	8.99
MW-3	9/27/1993	16.86	8.58	8.28
MW-3	10/19/1993	16.86	9.13	7.73
MW-3	11/15/1993	16.86	8.84	8.02
MW-3	12/17/1993	16.86	7.80	9.06
MW-3	2/7/1994	16.86	8.43	8.43
MW-3	5/20/1994	16.86	6.79	10.07
MW-3	8/22/1994	16.86	8.32	8.54
MW-3	11/2/1994	16.86	10.98	5.88
MW-3	2/14/1995	16.86	7.93	8.93
MW-3	5/19/1995	16.86	8.44	8.42
MW-3	8/22/1995	16.86	7.54	9.32
MW-3	10/25/1995	16.86	9.03	7.83
MW-3	2/9/1996	16.86	7.05	9.81
MW-3	4/11/1996	16.86	7.44	9.42
MW-3	8/1/1996	16.86	7.08	9.78
MW-3	11/11/1996	16.86	7.84	9.02
MW-4	1/26/1993	17.13	5.91	11.22
MW-4	2/4/1993	17.13	6.14	10.99
MW-4	3/9/1993	17.13	5 81	11.32
MW-4	5/6/1993	17 13	6 49	10 64
MW-4	6/15/1993	17.13	6 34	10 79
MW-4	7/26/1993	17 13	7 29	9 84
MW-4	8/31/1993	17 13	8 02	9 11
MW-4	9/27/1993	17.13	Inaccessible - Car On Well	
MW-4	10/19/1993	17 13	9 14	7 99
MW-4	11/15/1993	17 13	9 01	8 12

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casin Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-4	12/17/1993	17.13	7.91	9.22
MW-4	2/7/1994	17.13	8.02	9.11
MW-4	5/20/1994	17.13	6.85	10.28
MW-4	8/22/1994	17.13	8.48	8.65
MW-4	11/2/1994	17.13	10.52	6.61
MW-4	2/14/1995	17.13	6.99	10.14
MW-4	5/19/1995	17.13	7.61	9.52
MW-4	8/22/1995	17.13	7.62	9.51
MW-4	10/25/1995	17.13	8.62	8.51
MW-4	2/9/1996	17.13	6.60	10.53
MW-4	4/11/1996	17.13	6.54	10.59
MW-4	8/1/1996	17.13	7.04	10.09
MW-4	11/11/1996	17.13	7.95	9.18
MW-5	1/26/1993	15.59	Not Monitored	
MW-5	2/4/1993	15.59	Inaccessible	
MW-5	3/9/1993	15.59	5.45	10.14
MW-5	5/6/1993	15.59	6.00	9.59
MW-5	6/15/1993	15.59	7.81	7.78
MW-5	7/26/1993	15.59	Inaccessible - VES	
MW-5	8/31/1993	15.59	Inaccessible - VES	
MW-5	9/27/1993	15.59	Inaccessible - VES	
MW-5	10/19/1993	15.59	Inaccessible - VES	
MW-5	11/15/1993	15.59	Inaccessible - VES	
MW-5	12/17/1993	15.59	Inaccessible - VES	
MW-5	2/7/1994	15.59	Inaccessible - VES	
MW-5	5/20/1994	15.59	Inaccessible - VES	
MW-5	8/22/1994	15.59	7.27	8.32
MW-5	11/2/1994	15.59	Inaccessible - VES	
MW-5	2/14/1995	15.59	Inaccessible - VES	
MW-5	5/19/1995	15.59	11.55	4.04
MW-5	8/22/1995	15.59	6.02	9.57
MW-5	10/25/1995	15.59	11.05	4.54
MW-5	2/9/1996	15 59	6.70	8 89
MW-5	4/11/1996	15 59	12 21	3.38
MW-5	8/1/1996	15 59	2 80	12 79
MW-5	11/11/1996	15.59	Inaccessible	
MW-6	1/26/1993	17 05	6.63	10 42
MW-6	2/4/1993	17.05	6.48	10 57
MW-6	3/9/1993	17 05	6.68	10 37

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casin Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6	5/6/1993	17.05	6.93	10.12
MW-6	6/15/1993	17.05	7.00	10.05
MW-6	7/26/1993	17.05	7.25	9.80
MW-6	8/31/1993	17.05	7.83	9.22
MW-6	9/27/1993	17.05	8.38	8.67
MW-6	10/19/1993	17.05	8.76	8.29
MW-6	11/15/1993	17.05	8.65	8.40
MW-6	12/17/1993	17.05	7.78	9.27
MW-6	2/7/1994	17.05	7.90	9.15
MW-6	5/20/1994	17.05	6.95	10.10
MW-6	8/22/1994	17.05	8.17	8.88
MW-6	11/2/1994	17.05	10.56	6.49
MW-6	2/14/1995	17.05	8.08	8.97
MW-6	5/19/1995	17.05	8.51	8.54
MW-6	8/22/1995	17.05	7.50	9.55
MW-6	10/25/1995	17.05	8.61	8.44
MW-6	2/9/1996	17.05	7.26	9.79
MW-6	4/11/1996	17.05	7.41	9.64
MW-6	8/1/1996	17.05	7.10	9.95
MW-6	11/11/1996	17.05	8.04	9.01
MW-7	1/26/1993	16.65	6.53	10.12
MW-7	2/4/1993	16.65	6.40	10.25
MW-7	3/9/1993	16.65	6.52	10.13
MW-7	5/6/1993	16.65	Inaccessible	
MW-7	6/15/1993	16.65	6.69	9.96
MW-7	7/26/1993	16.65	Inaccessible	
MW-7	8/31/1993	16.65	Inaccessible	
MW-7	9/27/1993	16.65	7.97	8.68
MW-7	10/19/1993	16.65	8.24	8.41
MW-7	11/15/1993	16.65	8.22	8.43
MW-7	12/17/1994	16.65	Inaccessible	
MW-7	2/7/1994	16.65	Inaccessible	
MW-7	5/20/1994	16 65	Inaccessible	
MW-7	8/22/1994	16 65	7 78	8 87
MW-7	11/2/1994	16 65	9.70	6 95
MW-7	2/14/1995	16.65	Inaccessible	
MW-7	5/19/1995	16 65	7 33	9 32
MW-7	8/22/1995	16 65	6 72	9 93
MW-7	10/25/1995	16 65	Inaccessible	
MW-7	2/9/1996	16 65	7.06	9 59

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casin Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-7	4/11/1996	16.65	Inaccessible	
MW-7	8/1/1996	16.65	6.94	9.71
MW-7	11/11/1996	16.65	Inaccessible	
MW-8	1/26/1993	15.87	5.30	10.57
MW-8	2/4/1993	15.87	5.62	10.25
MW-8	3/9/1993	15.87	5.56	10.31
MW-8	5/6/1993	15.87	5.99	9.88
MW-8	6/15/1993	15.87	6.32	9.55
MW-8	7/26/1993	15.87	6.75	9.12
MW-8	8/31/1993	15.87	7.35	8.52
MW-8	9/27/1993	15.87	7.86	8.01
MW-8	10/19/1993	15.87	8.27	7.60
MW-8	11/15/1993	15.87	8.17	7.70
MW-8	12/17/1993	15.87	7.14	8.73
MW-8	2/7/1994	15.87	7.26	8.61
MW-8	5/20/1994	15.87	6.17	9.70
MW-8	8/22/1994	15.87	7.63	8.24
MW-8	11/2/1994	15.87	10.16	5.71
MW-8	2/14/1995	15.87	7.32	8.55
MW-8	5/19/1995	15.87	7.83	8.04
MW-8	8/22/1995	15.87	6.98	8.89
MW-8	10/25/1995	15.87	8.16	7.71
MW-8	2/9/1996	15.87	4.89	10.98
MW-8	4/11/1996	15.87	8.48	7.39
MW-8	8/1/1996	15.87	6.60	9.27
MW-8	11/11/1996	15.87	7.28	8.59
MW-9	8/22/1995	14.44	6.00	8.44
MW-9	10/25/1995	14.44	6.71	7.73
MW-9	2/9/1996	14.44	4.87	9.57
MW-9	4/11/1996	14.44	5.40	9.04
MW-9	8/1/1996	14.44	5.69	8.75
MW-9	11/11/1996	14.44	6 44	8 00
MW-10	8/22/1995	15 04	6.86	8 18
MW-10	10/25/1995	15 04	7.91	7 13
MW-10	2/9/1996	15 04	4 45	10 59
MW-10	4/11/1996	15 04	4 61	10 43
MW-10	8/1/1996	15 04	6 25	8.79
MW-10	11/11/1996	15 04	7 42	7 62

Table 1
Groundwater Elevation Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Gauged	Top of Casin Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-11	8/22/1995	10.61	5.12	5.49
MW-11	10/25/1995	10.61	Inaccessible	
MW-11	2/9/1996	10.61	2.73	7.88
MW-11	4/11/1996	10.61	3.00	7.61
MW-11	8/1/1996	10.61	4.66	5.95
MW-11	11/11/1996	10.61	5.85	4.76
VW-1	2/19/1992	16.83		
VW-1	1/26/93 - 11/11/96	16.83	Not Monitored	
VW-2	2/19/1992	17.00		
VW-2	1/26/93 - 11/11/96	17.00	Not Monitored	
VW-3	2/19/1992	16.94		
VW-3	1/26/93 - 11/11/96	16.94	Not Monitored	
VW-4	2/19/1992	16.81	5.76	11.05
VW-4	1/26/93 - 11/11/96	16.81	Not Monitored	
VW-5	2/19/1992	17.20		
VW-5	1/26/93 - 11/11/96	17.20	Not Monitored	
MSL = Mean Sea Level				
TOC = Top of Casing				
VES = Vapor Extraction System				

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-1	2/4/1993	120	22	3.1	3.3	10	NA
MW-1	5/6/1993	710	320	3.1	4.2	20	NA
MW-1	9/28/1993	Not Accessible - Connected to Vapor Extraction System					
MW-1	11/15/1993	Not Accessible - Connected to Vapor Extraction System					
MW-1	2/7/1994	Not Accessible - Connected to Vapor Extraction System					
MW-1	5/20/1994	Not Accessible - Connected to Vapor Extraction System					
MW-1	8/22/1994	Not Accessible - Connected to Vapor Extraction System					
MW-1	11/3/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	2/14/1995	350	40	1.6	15	31	NA
MW-1	5/19/1995	220	35	2.4	7.2	23	NA
MW-1	8/22/1995	330	44	1.2	14	21	<10
MW-1	10/25/1995	<50	1.6	<0.5	<0.5	<0.5	NA
MW-1	2/9/1996	160	3.2	1.5	0.89	2.7	NA
MW-1	4/11/1996	1,300	300	85	25	110	NA
MW-1	8/1/1996	3,700	1,100	80	46	210	NA
MW-1	11/11/1996	Not Sampled					
MW-2	2/4/1993	430	45	0.5	20	30	NA
MW-2	5/6/1993	2,000	460	2.4	160	66	NA
MW-2	9/28/1993	Not Accessible - Connected to Vapor Extraction System					
MW-2	11/15/1993	Not Accessible - Connected to Vapor Extraction System					
MW-2	2/7/1994	Not Accessible - Connected to Vapor Extraction System					
MW-2	5/20/1994	Not Accessible - Connected to Vapor Extraction System					
MW-2	8/22/1994	Not Accessible - Connected to Vapor Extraction System					
MW-2	11/2/1994	Not Sampled					
MW-2	2/14/1995	Not Sampled					
MW-2	5/19/1995	580	75	19	5.1	30	NA
MW-2	8/22/1995	1,200	130	8.3	84	86	<10
MW-2	10/25/1995	350	79	1.2	55	13	NA
MW-2	2/9/1996	<50	1.5	0.53	1.1	1.5	NA
MW-2	4/11/1996	80	1.5	<0.5	<0.5	<0.5	NA
MW-2	8/1/1996	330	42	0.55	20	8.1	NA
MW-2	11/11/1996	Not Sampled					
MW-3	2/4/1993	2,900	180	13	210	350	NA
MW-3	5/6/1993	2,700	270	6.2	300	720	NA
MW-3	9/28/1993	1,800	92	1.7	99	240	NA
MW-3	11/15/1993	1,900	100	2.4	85	280	NA
MW-3	2/7/1994	1,400	69	3.3	100	320	NA
MW-3	5/20/1994	1,100	64	19	120	180	NA
MW-3	8/22/1994	77	4.3	<0.5	2.0	5.6	NA
MW-3	11/2/1994	<50	0.75	<0.5	<0.5	<0.5	NA
MW-3	2/14/1995	1,300	24	5.2	85	360	NA
MW-3	5/19/1995	5,300	98	28	650	1,700	NA
MW-3	8/22/1995	700	4.1	1.1	50	72	<10

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-3	10/25/1995	<50	2.4	<0.5	<0.5	1.6	NA
MW-3	2/9/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	4/11/1996	2,000	11	3.9	190	500	NA
MW-3	8/1/1996	1,500	8.4	<0.5	160	150	NA
MW-3	11/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-4	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/6/1993	<50	1.6	<0.5	1	2.1	NA
MW-4	9/28/1993	Not Accessible - Auto on Well					
MW-4	11/15/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	2/7/1994	<50	<0.5	<0.5	<0.5	2.6	NA
MW-4	5/20/1994	82	6.2	7.6	3.3	17	NA
MW-4	8/22/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	11/2/1994	<50	<0.5	0.56	<0.5	<0.5	NA
MW-4	2/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	5/19/1995	66	0.77	0.63	0.87	3.6	NA
MW-4	8/22/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-4	10/25/1995	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	2/9/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	4/11/1996	Not Sampled					
MW-4	8/1/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-4	11/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-5	2/4/1993	Not Sampled					
MW-5	5/6/1993	6,200	460	980	300	1,200	NA
MW-5	9/28/1993	Not Accessible - Connected to Vapor Extraction System					
MW-5	11/15/1993	Not Accessible - Connected to Vapor Extraction System					
MW-5	2/7/1994	Not Accessible - Connected to Vapor Extraction System					
MW-5	5/20/1994	Not Accessible - Connected to Vapor Extraction System					
MW-5	8/22/1994	Not Accessible - Connected to Vapor Extraction System					
MW-5	11/3/1994	5,700	800	400	4.7	600	NA
MW-5	2/14/1995	1,300	290	76	21	140	NA
MW-5	5/19/1995	600	83	20	5.7	33	NA
MW-5	8/22/1995	8,100	650	720	54	1,700	<50
MW-5	10/25/1995	1,500	290	85	15	170	NA
MW-5	2/9/1996	1,000	120	49	26	130	NA
MW-5	4/11/1996	210	5.7	<0.5	9.2	22	NA
MW-5	8/1/1996	86	<0.5	<0.5	<0.5	5.3	NA
MW-5	11/11/1996	Not Sampled					
MW-6	2/4/1993	2,300	19	5.4	27	220	NA
MW-6	5/6/1993	540	44	0.9	7	6.7	NA
MW-6	9/28/1993	180	2.7	0.73	6.3	13	NA
MW-6	11/15/1993	180	2.2	0.91	5.4	16	NA
MW-6	2/7/1994	240	2.9	1.2	3.9	7.1	NA

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-6	5/20/1994	600	4.5	2.2	24	66	NA
MW-6	8/22/1994	400	3.2	1	7.9	40	NA
MW-6	11/2/1994	150	1.6	1.3	6.5	27	NA
MW-6	2/14/1995	770	4.0	2.9	42	130	NA
MW-6	5/19/1995	2,400	6.9	11	99	350	NA
MW-6	8/22/1995	190	1.0	1.7	5.2	18	<10
MW-6	10/25/1995	910	5.5	3.3	50	160	NA
MW-6	2/9/1996	4,100	3.8	9.9	60	270	NA
MW-6	4/11/1996	Not Sampled					
MW-6	8/1/1996	2,200	5.1	2.4	160	170	NA
MW-6	11/11/1996	1,000	3.7	1.5	38	1,100	<30
MW-7	2/4/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-7	5/6/1993	Not Sampled					
MW-7	9/28/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-7	11/15/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-7	2/7/1994	Not Sampled					
MW-7	5/20/1994	Not Sampled					
MW-7	8/22/1994	130	<0.5	<0.5	<0.5	<0.5	NA
MW-7	11/2/1994	73	<0.5	<0.5	<0.5	<0.5	NA
MW-7	2/14/1995	Not Sampled					
MW-7	5/19/1995	<50	<0.5	<0.5	<0.5	2.3	NA
MW-7	8/22/1995	400	<0.5	<0.5	<0.5	0.76	<10
MW-7	10/25/1995	Not Sampled					
MW-7	2/9/1996	Not Sampled					
MW-7	4/11/1996	Not Sampled					
MW-7	8/1/1996	460	<0.5	<0.5	<0.5	<0.5	NA
MW-7	11/11/1996	Not Sampled					
MW-8	2/4/1993	540	150	3.7	5.2	10	NA
MW-8	5/6/1993	22,000	9,400	46	390	520	NA
MW-8	9/28/1993	8,000	1,700	22	30	75	NA
MW-8	11/15/1993	2,000	840	8.8	15	42	NA
MW-8	2/7/1994	1,700	460	0.6	13	5	NA
MW-8	5/20/1994	110	98	1.4	1.3	3.4	NA
MW-8	8/22/1994	51	16	<0.5	<0.5	<0.5	NA
MW-8	11/2/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-8	2/14/1995	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	5/19/1995	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	8/22/1995	<50	<0 5	<0 5	<0 5	<0 5	<10
MW-8	10/25/1995	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	2/9/1996	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	4/11/1996	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	8/1/1996	<50	<0 5	<0 5	<0 5	<0 5	NA
MW-8	11/11/1996	<50	1 3	<0 5	<0 5	0 67	<30

Table 2
Groundwater Analytical Data
1127 Lincoln Avenue, Alameda, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-9	8/22/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-9	10/25/1995	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	2/9/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	4/11/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	8/1/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9	11/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-10	8/22/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-10	10/25/1995	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-10	2/9/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-10	4/11/1996	<50	0.67	1.8	1.3	7.7	NA
MW-10	8/1/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-10	11/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-11	8/22/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-11	10/25/1995	Not Sampled					
MW-11	2/9/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-11	4/11/1996	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-11	8/1/1996	76	6.8	5.3	2.7	9.1	NA
MW-11	11/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<30

MTBE = Methyl-tert-butylether
< = Less than the detection limit for the specified method of analysis
NA = Not available
ppb = parts per billion

APPENDIX

B C Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247 9797

ANALYTICAL REPORT

LOG NO: G96-11-378

Received: 15 NOV 96

Mailed: NOV 22 1996

Ms. Rebecca Digerness
Texaco Environmental Services
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)								
		Date Analyzed Date	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range .
PDL			1	50	0.5	0.5	0.5	30	0.5	
1*MW-3	11/11/96	11/19/96	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
2*MW-4	11/11/96	11/20/96	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
3*MW-6	11/11/96	11/20/96	1	1000	3.7	1.5	38	<30	1100	C6-C12
4*MW-8	11/11/96	11/20/96	1	<50	1.3	<0.5	<0.5	<30	0.67	C6-C12
5*MW-9	11/11/96	11/20/96	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
6*MW-10	11/11/96	11/20/96	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
*MW- 1	11/11/96	11/20/96	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12

Karen Petryna
1127 Lincoln Ave., Alameda
Alameda County

HCA

B C Analytical

801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

ANALYTICAL REPORT

LOG NO: G96-11-378

Received: 15 NOV 96

Ms. Rebecca Digerness
Texaco Environmental Services
108 Cutting Boulevard
Richmond, CA 94804

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP9001L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020) Date Analyzed	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range
PQL			1	50	0.5	0.5	0.5	30	0.5	
3*EB	11/11/96	11/20/96	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12

Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

BCA

)RDER PLACED FOR CLIENT: Texaco Environmental Services 9611378 :
3C ANALYTICAL : GLEN LAB : 10:13:53 22 NOV 1996 - P. 1 :

MPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
11378*1	MW-3	GAS.MTBE.TESNC	11.19.96	8015M.TX	536-23	965156	6843
11378*2	MW-4	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-23	965156	6843
11378*3	MW-6	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-23	965156	6843
11378*4	MW-8	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-23	965156	6843
11378*5	MW-9	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-23	965156	6843
11378*6	MW-10	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-23	965156	6843
11378*7	MW-11	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-36	966181	6843
11378*8	EB	GAS.MTBE.TESNC	11.20.96	8015M.TX	536-36	966181	6843

*

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

QC REPORT FOR 9611328
DATE PRINTED: 22 NOV 1996

[illegible] SAMPLES

		METHOD BLANK			LAB CONTROL									MATRIX QC								
	UNITS	RESULT	RDL	FLG	LCS %REC	FLG	LCSD %REC	FLG	LCL	UCL	RPD	RPD UCL	RPD FLG	MS %REC	FLG	MSD %REC	FLG	LCL	UCL	RPD	RPD UCL	RPD FLG
Batch: GAS*966156 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	99	-	-	-	76	155	-	-	-	103	-	107	-	70	153	4	25	-
Toluene	ug/L	0	0.5	-	104	-	-	-	72	121	-	-	-	101	-	102	-	69	119	1	25	-
Ethylbenzene	ug/L	0	0.5	-	101	-	-	-	72	115	-	-	-	104	-	104	-	68	116	0	25	-
Methyl tert-butylether	ug/L	0	30	-	86	-	-	-	62	159	-	-	-	116	-	114	-	80	176	1	25	-
Total Xylene Isomers	ug/L	0	0.5	-	97	-	-	-	68	115	-	-	-	106	-	107	-	61	118	1	25	-
TPH (Gasoline Range)	ug/L	0	50	-	88	-	-	-	85	120	-	-	-	89	-	89	-	78	124	0	25	-
[a,a,a-Trifluorotoluene]	Percent	97	-	-	101	-	-	-	85	118	-	-	-	105	-	107	-	85	118	-	-	-
Batch: GAS*966181 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	122	-	-	-	76	155	-	-	-	114	-	114	-	70	153	1	25	-
Toluene	ug/L	0	0.5	-	109	-	-	-	72	121	-	-	-	97	-	102	-	69	119	4	25	-
Ethylbenzene	ug/L	0	0.5	-	113	-	-	-	72	115	-	-	-	100	-	105	-	68	116	5	25	-
Methyl tert-butylether	ug/L	0	30	-	86	-	-	-	62	159	-	-	-	87	-	97	-	80	176	11	25	-
Total Xylene Isomers	ug/L	0	0.5	-	110	-	-	-	68	115	-	-	-	107	-	105	-	61	118	2	25	-
TPH (Gasoline Range)	ug/L	0	50	-	104	-	-	-	85	120	-	-	-	99	-	100	-	78	124	1	25	-
[a,a,a-Trifluorotoluene]	Percent	122	-	Q	135	Q	-	-	85	118	-	-	-	133	Q	127	Q	85	118	-	-	-

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 10:14:39 22 NOV 1996 - P. 1 :

THOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
11378*1							
15M.TX	a,a,a-Trifluorotoluene	Re965156	11/19/96	44.3	50.0	89	
11378*2							
15M.TX	a,a,a-Trifluorotoluene	Re965156	11/20/96	46.7	50.0	93	
11378*3							
15M.TX	a,a,a-Trifluorotoluene	Re965156	11/20/96	46.7	50.0	93	
11378*4							
15M.TX	a,a,a-Trifluorotoluene	Re965156	11/20/96	45.8	50.0	92	
11378*5							
15M.TX	a,a,a-Trifluorotoluene	Re965156	11/20/96	43.6	50.0	87	
11378*6							
15M.TX	a,a,a-Trifluorotoluene	Re965156	11/20/96	45.6	50.0	91	
11378*7							
15M.TX	a,a,a-Trifluorotoluene	Re966181	11/20/96	58.4	50.0	117	
11378*8							
15M.TX	a,a,a-Trifluorotoluene	Re966181	11/20/96	56.9	50.0	114	

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 10:14:46 22 NOV 1996 - P. 1 :

THOD ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
11378*1*R1						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/19/96	44.3	50.0	89	
11378*1*S1						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/19/96	52.7	50.0	105	
11378*1*S2						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/20/96	53.7	50.0	107	
11378*1*T						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/20/96	50.0	50.0	100	
11378*7*R1						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	58.4	50.0	117	
11378*7*S1						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	66.5	50.0	133	
11378*7*S2						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	63.4	50.0	127	
11378*7*T						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	50.0	50.0	100	
111374*1*MB						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/19/96	48.6	50.0	97	
111427*1*MB						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	61.1	50.0	122	
112609*1*LC						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/19/96	50.5	50.0	101	
112609*1*LT						
15M.TXa,a,a-Trifluorotoluene	Re965156	11/19/96	50.0	50.0	100	
112710*1*LC						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	67.5	50.0	135	
112710*1*LT						
15M.TXa,a,a-Trifluorotoluene	Re966181	11/20/96	50.0	50.0	100	

Q96-11-378

Chain-of-Custody

Page 1 of 1

Texaco Environmental Services
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 236-3541
FAX: (510) 237-7021

Forward Results to the Attention of Rebecca Digerness

Texaco Project Coordinator: Karen Petryna

Site Name: Texaco Loc.# 624881450
Site Address: 1127 Lincoln Ave. Alameda, CA
Contractor Project Number: 961111-42
Contractor Name: Blaine Tech Services, Inc.
Address: 985 Timothy Dr., San Jose, CA 95133
Project Contact: Jim Keller
Phone/FAX: (408) 995-5535 / (408) 293-8773

Laboratory: B C Analytical
Turn Around Time: normal (10 day)
Samplers (PRINT NAME): TROY N. HORNER
Sampler Signature: Troy N. Horner
Date Samples Collected: 11/11/96

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (C8-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead			Comments
MW-3		11/11 1235	3	VOA	W	HCL	X										
MW-4		11/11 1220	3	"	W	"	X										
MW-6		11/11 1300	3	"	W	"	X										
MW-8		11/11 1205	3	"	W	"	X										
MW-9		11/11 1150	3	"	W	"	X										
MW-10		11/11 1135	3	"	W	"	X										
MW-11		11/11 1115	3	"	W	"	X										
EB		11/11 1125	3	"	W	"	X										

Relinquished by: (Signature) Troy N. Horner	Date: 11-15-96	Time: 1220	Received by: (Signature) Bill Kyone	Date: 11-15-96	Time: 1220
Relinquished by: (Signature) Bill Kyone	Date: 11-15-96	Time: 340	Received by: (Signature)	Date: 11-16-96	Time: 9:15
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Method of Shipment			Lab Comments:		

P:\GW\PM\FORMS\TEX COC.XLS

Well Gauging Data

Project Name: 1127 LINCOLN AVE
Project Number: 62488450

Date: 11/11/96
Recorded By: TNH

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-1		—	4		—		COULD NOT GAUGE WITH SLOPE SOUNDER PUMP IN WAY
MW-2		—	4		—		" " " " " " " " "
MW-3		19.54	4		7.84		
MW-4		20.14			7.95		
MW-5		—	4		—		" " " " " " " " "
MW-6		19.82			8.04		
MW-7	INACCESSIBLE CAR OVER WELL						
MW-8		19.68	4		7.28		
MW-9		14.46	4		6.44		
MW-10		14.25	4		7.42		
MW-11		14.45	4		5.85		

TOC = Top of casing
DTB = Depth to bottom in feet below TOC
DTP = Depth to product in feet below TOC
DTW = Depth to water in feet below TOC
PT = Product thickness in feet

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 6248804150
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.65	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- S.S. Bailer
- Teflon Bailer
- Extraction Port
- Other: _____

_____ (1 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
		SEE	MW-5	DATA SHEET		

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date: 11/11/96
Sample I.D.: MW-1	Laboratory: BC Analytical
Analyzed for: (Tph-G) (BTEX) Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 62488/450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer
Teflon Bailer
Middleburg
Electric Submersible
Extraction Pump
Other: _____

Sampling Method: S.S. Bailer
Teflon Bailer
Extraction Port
Other: _____

_____ X _____ = _____ Gals.
1 Case Volume (Gals.) Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
		SEE	MW-5	DATA SHEET		

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date: 11/11/96
Sample I.D.: MW-2	Laboratory: BC Analytical
Analyzed for: (Tph-G) (BTEX) Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 96111-H1	Texaco ID#: 624881450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.54	Depth to Water: 7.84
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible ✓
- Extraction Pump
- Other: _____

Sampling Method: S.S. Bailer ✓
- Teflon Bailer
- Extraction Port
- Other: _____

7.6	x	3	=	22.8 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1226	71.2	7.1	480	67	8	
1227	69.8	6.9	420	41	16	
1228	70.1	6.7	440	13	23	

Did well dewater? Yes (No) Gallons actually evacuated: 23

Sampling Time: 1235 Sampling Date: 11/11/96

Sample I.D.: MW-3 Laboratory: BC Analytical

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 624891450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.14	Depth to Water: 7.95
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: ___

Sampling Method: S.S. Bailer ✓ / Teflon Bailer / Extraction Port / Other: ___

7.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 23.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1213	71.2	7.0	460	53.1	8	
1214	70.8	6.8	420	78.4	16	
1215	69.8 ✓	6.9 ✓	440 ✓	93.6	24	

Did well dewater? Yes (No)	Gallons actually evacuated: 24
Sampling Time: 1220	Sampling Date: 11/11/96
Sample I.D.: MW-4	Laboratory: BC Analytical
Analyzed for: (Tph-G) (BTEX) Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 96111-H2	Texaco ID#: 6248814450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-5	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer, Teflon Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: _____

Sampling Method: S.S. Bailer, Teflon Bailer, Extraction Port, Other: _____

_____ X _____ = _____ Gals.
1 Case Volume (Gals.) Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
	NOT SAMPLED SYSTEM DOWN UPON ARRIVAL					
	COULD NOT RESTART SYSTEM - SYSTEM					
	APPEARED OPERATIONAL UPON ARRIVAL					

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date: 11/11/96
Sample I.D.: MW-5	Laboratory: BC Analytical
Analyzed for: (Tph-G) (BTEX) Tph-D	Other:
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 624881450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-6	Well Diameter: ~~2~~ 3 4 6 8 ___
Total Well Depth: 19.82	Depth to Water: 8.04
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius² * 0.164

Purge Method: S.S. Bailer ✓ / Teflon Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: S.S. Bailer ✓ / Teflon Bailer / Extraction Port / Other: ___

1.9 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.7 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1246	69.8	7.0	280	7200	2	
1250	70.1	7.1	240	7200	4	
1253	69.6 ✓	7.1 ✓	260 ✓	7200	6	

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 1300 Sampling Date: 11/11/96

Sample I.D.: MW-6 Laboratory: BC Analytical

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 6248B1450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.68	Depth to Water: 7.28
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method:
- S.S. Bailer
- Teflon Bailer
- Middleburg
- Electric Submersible ✓
- Extraction Pump
- Other: _____

Sampling Method: S.S. Bailer ✓
- Teflon Bailer
- Extraction Port
- Other: _____

8.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 24 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1156	68.1	7.1	300	161.4	8	
1157	67.3	7.0	310	7200	16	
1158	67.6 ✓	6.9 ✓	320 ✓	7200	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Time: 1205 Sampling Date: 11/11/96

Sample I.D.: MW-8 Laboratory: BC Analytical

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 624881450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.46	Depth to Water: 6.44
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer; Teflon Bailer; Middleburg; Electric Submersible ✓; Extraction Pump; Other: ___

Sampling Method: S.S. Bailer ✓; Teflon Bailer; Extraction Port; Other: ___

5.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 15.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1141	69.6	7.2	330	163.7	5	
1142	70.2	7.0	320	7200	11	
1143	69.9	7.1	320	7200	16	

Did well dewater? Yes (No) Gallons actually evacuated: 16

Sampling Time: 1150 Sampling Date: 11/11/96

Sample I.D.: MW-9 Laboratory: BC Analytical

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-42	Texaco ID#: 6248B1450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.25	Depth to Water: 7.42
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer / Teflon Bailer / Middleburg / Electric Submersible ✓ / Extraction Pump / Other: _____

Sampling Method: S.S. Bailer ✓ / Teflon Bailer / Extraction Port / Other: _____

4.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 13.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1131	66.6	6.8	730	7200	5	
1132	68.6	6.7	700	7200	10	
1133	68.1 ✓	6.8 ✓	740 ✓	7200	13	

Did well dewater? Yes (No) Gallons actually evacuated: 13

Sampling Time: ~~1139~~ 1135 Sampling Date: 11/11/96

Sample I.D.: MW-10 Laboratory: BC Analytical

Analyzed for: (Tph-G) (BTEX) Tph-D Other: ~~EB~~

Equipment Blank I.D.: EB @ 1125 Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 961111-H2	Texaco ID#: 624881450
Sampler: TNH	Date: 11/11/96
Well I.D.: MW-11	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.45	Depth to Water: 5.85
Depth to Free Product:	Thickness of Free Product:

All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.17	5"	1.02
3"	0.38	6"	1.50
4"	0.66	8"	2.60
4.5"	0.83	Other	radius^2 * 0.164

Purge Method: S.S. Bailer; Teflon Bailer; Middleburg; Electric Submersible X; Extraction Pump; Other: ___

Sampling Method: S.S. Bailer X; Teflon Bailer; Extraction Port; Other: ___

5.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 16.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1110	64.4	7.6	280	86.5	6	
1111	68.8	7.4	260	7200	12	
1112	69.2	7.3	280	7200	17	

Did well dewater? Yes (No) Gallons actually evacuated: 17

Sampling Time: 1115 Sampling Date: 11/11/96

Sample I.D.: MW-11 Laboratory: BC Analytical

Analyzed for: (Tph-G) (BTEX) Tph-D Other:

Equipment Blank I.D.: Analyzed for same as primary sample

SOURCE RECORD . # BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT TEXACO FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED TO THE DESTINATION DESIGNATED BY TEXACO ENVIRONMENTAL SERVICES (TES).

Contractor: Blaine Tech Services, Inc.
Address: 985 Timothy Drive
City, State, ZIP: San Jose, CA 95133
Phone: (408) 995-5535

is authorized by Texaco Environmental Services to recover, collect, apportion into loads, and haul the NON-HAZARDOUS WELL PURGEWATER that is drawn from wells at the Texaco facility listed below and to deliver that purgewater to an appropriate destination designated by TEXACO ENVIRONMENTAL SERVICES in either Redwood City, California or in Richmond, California. Transport routing of the Non-Hazardous Well Purgewater may be directed from one Texaco facility to the designated destination point; from one Texaco facility to the designated destination point via another Texaco facility; from a Texaco facility via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of Texaco Environmental Services (TES).

This SOURCE RECORD BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Texaco facility described below:

TEXACO #: 624881450
Address: 1127 LINCOLN AVE
City, State, ZIP: ALAMEDA CA

Well I.D.	Gals.	Well I.D.	Gals.
	/		/
	/		/
	/		/
PURGE WATER	123		/
	/		/
	/		/
	/		/
	/		/
	/		/
	/		/

Total gals. 143

added rinse water 20

Total Gals. Recovered 143

Job #: 961111-H2
Date 11/11/96
Time 1330
Signature: Craig M. Howard

REC'D AT: BTS
Date: 11/11/96
Time: 1430
Signature: Craig M. Howard

QUARTERLY SUMMARY REPORT

Former Texaco Service Station
1127 Lincoln Avenue, Alameda, California
Alameda County
Third Quarter, 1996

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS

Four underground fuel tanks and one underground waste oil tank were removed in September 1989. Eleven soil borings were drilled in March 1981 and eight of the borings were converted into three groundwater monitoring wells (MW-1 through MW-3) and five vapor extraction wells (VW-1 through VW-5). Five additional ground water monitoring wells (MW-4 through MW-8) and (MW-9 through MW-11) were installed in June 1992 and May 1995, respectively. Nine soil borings were also drilled in February 1995. A dual soil vapor extraction and groundwater extraction remedial system operated from September 1993 through September 1996. Monitoring well MW-5 were connected to the vapor extraction system in September 1993 and MW-1 and MW-2 were connected to the extraction system in November 1993. MW-1, MW-2, and MW-5 act as combined extraction/recovery wells.

WORK PERFORMED DURING THIS QUARTER

Ground water monitoring and sampling of the monitoring wells. With the approval of the ACDEH, the remediation system was turned off.

CHARACTERIZATION STATUS

SOIL: The extent of petroleum hydrocarbons in soil have been delineated.

GROUND WATER: The extent of petroleum hydrocarbons is delineated based on the April 11, 1996 sample results.

REMEDIATION STATUS

A dual soil vapor extraction and groundwater extraction system previously operated at the site (see above).

WORK TO BE PERFORMED NEXT QUARTER

Continuation of the quarterly ground water monitoring and sampling program.

SITE CONTACTS

Texaco:	Karen Petryna (510) 236-9139
Property Owner:	Leo Pagano
Lead Agency:	Juliet Shin (510) 567-6763 (ACDEH)