Texaco Refining
and Marketing Inc

ENVIRONMENTAL
PROTECTION
96 JUN 11 PM 2:53

June 7, 1996

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 April 11, 1996, at the site referenced above (see Plate 1, Site Vicinity Map). The gradient map has been reviewed by a registered professional (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.

RBD hs

C \QMR\1127L\QMR LET

Enclosure

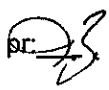
6/20/96
- Keep eye on levels that increased in MW1. Could be due to more effective pumping this qtr.

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

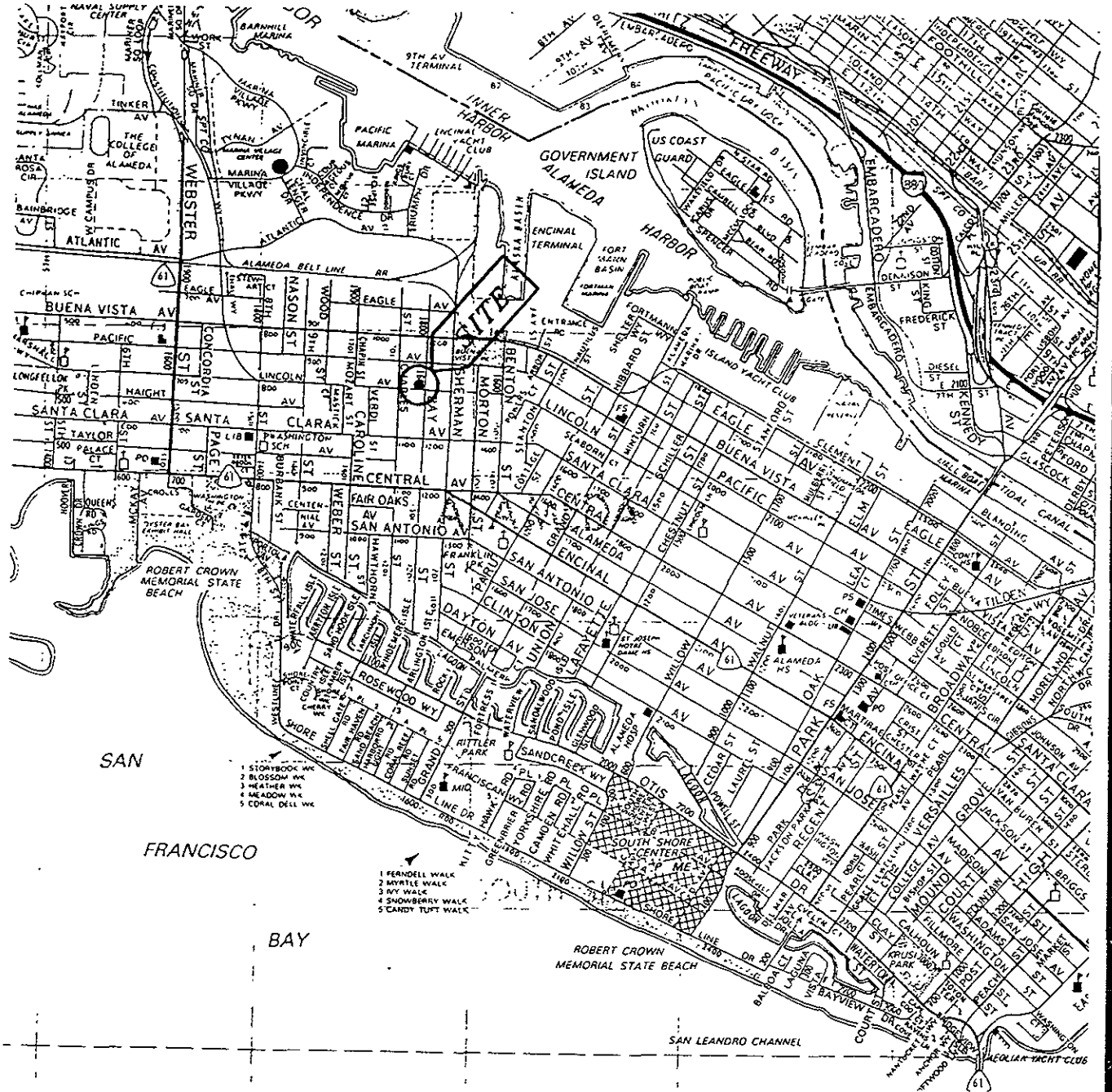
Mr. Leo Pagano
1127 Lincoln Avenue
Alameda, CA 94602

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

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



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



SOURCE:

1993 THE THOMAS GUIDE

ALAMEDA COUNTY PAGE 1 83

TEXACO

REFINING AND MARKETING INC.

TEXACO ENVIRONMENTAL SERVICES

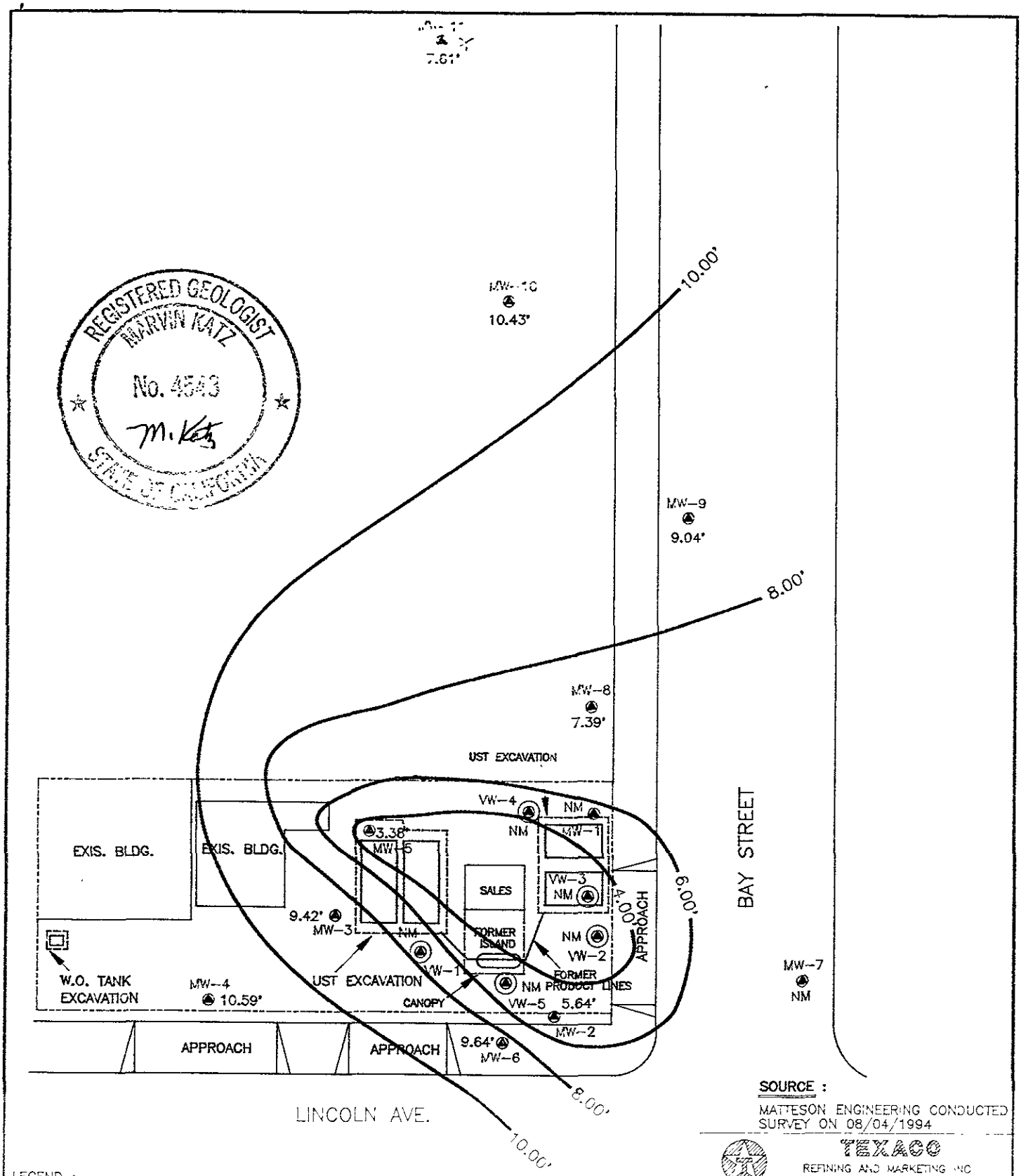
PLATE 1

SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

1125 LINCOLN AVE AT PARK ST

ALAMEDA, CALIFORNIA



LEGEND :

- ▲ MONITORING WELL LOCATION
- MW-1 AND WELL NUMBER
- ⊛ VAPOR EXTRACTION MONITORING WELL LOCATION
- VW-1 AND WELL NUMBER
- GROUNDWATER CONTOUR LINE
- 9.64' GROUNDWATER ELEVATION (ABOVE MSL)
- NM NOT MEASURED
- Y ANOMALOUS DATA POINT

N

0 30

FEET

SOURCE :

MATTESON ENGINEERING CONDUCTED SURVEY ON 08/04/1994

TEXACO

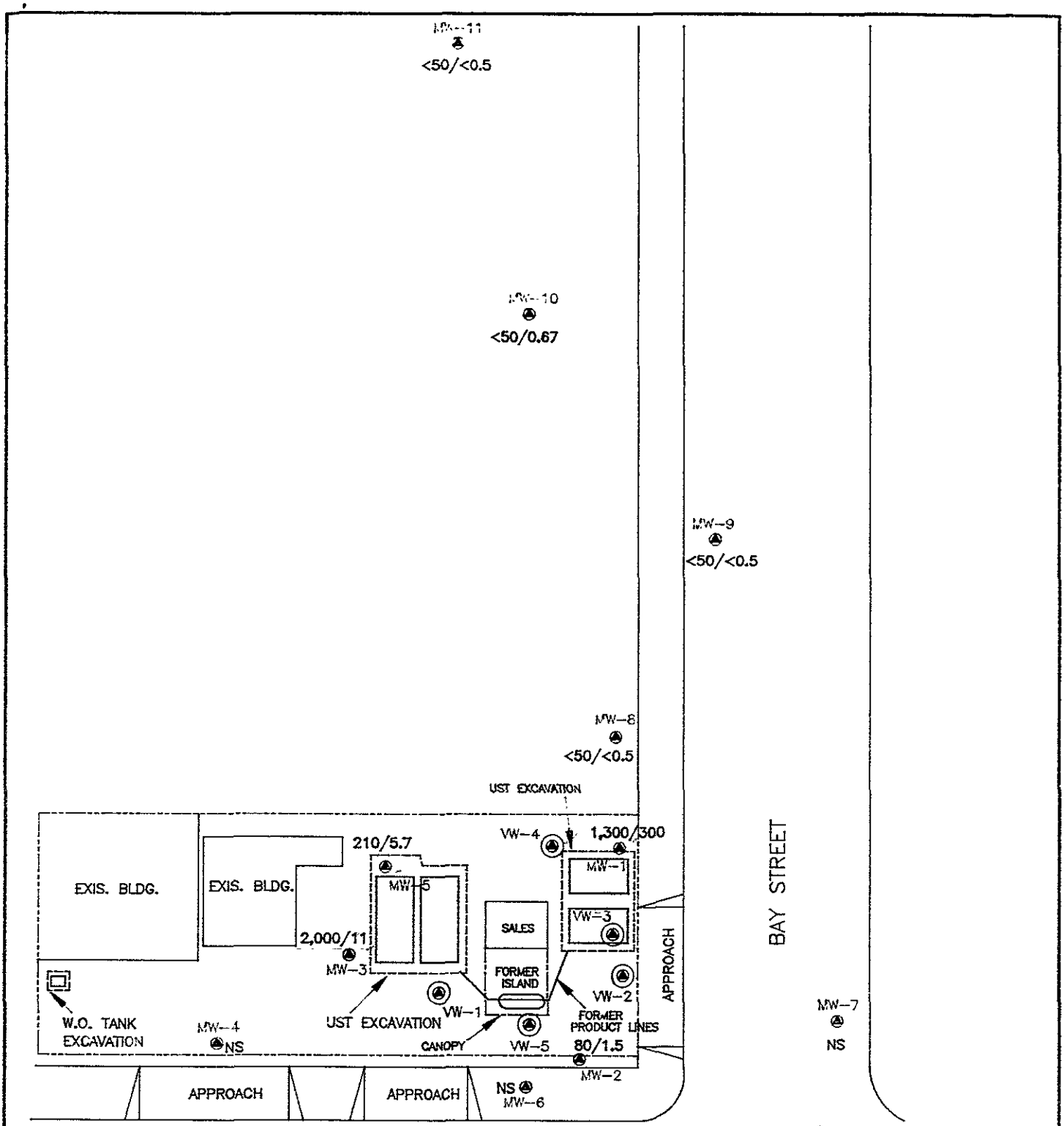
REFINING AND MARKETING INC.
ENVIRONMENT, HEALTH and SAFETY

PLATE 2 GROUNDWATER GRADIENT MAP
(04/11/1996)

FORMER TEXACO SERVICE STATION

1127 LINCOLN AVE. / BAY ST.
ALAMEDA, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-1450
DRAWN BY	AMA	DATE	06/03/1996
CHECKED BY	RD	DATE	6/14/96
DRAWING NO.	(ALAMEDA) U-BY-ALDWG		



SOURCE :

MATTESON ENGINEERING CONDUCTED SURVEY ON 08/04/1994

LEGEND :

- MW-1 — MONITORING WELL LOCATION AND WELL NUMBER
- VW-1 — VAPOR EXTRACTION MONITORING WELL LOCATION AND WELL NUMBER
- <50/<0.5 — TPHg/BENZENE CONCENTRATION IN GROUNDWATER (ppb)
- NS — NOT SAMPLED

0 30 FEET

TEXACO
REFINING AND MARKETING INC.
ENVIRONMENT, HEALTH and SAFETY

PLATE 3 : TPHg/BENZENE CONCENTRATION IN GROUNDWATER
(04/11/1996)
FORMER TEXACO SERVICE STATION
1127 LINCOLN AVE. / BAY ST.,
ALAMEDA, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-1450
DRAWN BY	AMA	DATE	06/03/1996
CHECKED BY		DATE	6/4/96
DRAWING NO.	(ALAMEDA) LI-BY-ALOWG		

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	2/19/92	16.49			
	1/26/93			5.63	10.86
	2/4/93			6.02	10.47
	3/9/93			5.92	10.57
	5/6/93			6.76	9.73
	6/15/93			6.81	9.68
	7/26/93			Inaccessible - VES	
	8/31/93			Inaccessible - VES	
	9/27/93			Inaccessible - VES	
	10/19/93			Inaccessible - VES	
	11/15/93			Inaccessible - VES	
	12/17/93			Inaccessible - VES	
	2/7/94			Inaccessible - VES	
	5/20/94			Inaccessible - VES	
	8/22/94	16.14	*	7.78	8.36
	11/2/94			Inaccessible - VES	
	2/14/95			15.16	0.98
	5/19/95			13.90	2.24
	8/22/95			7.06	9.08
	10/25/95			Inaccessible	
	2/9/96			Inaccessible	
	4/11/96			Inaccessible	

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-2	2/19/92	17.14			
	1/26/93			6.29	10.85
	2/4/93			6.60	10.54
	3/9/93			6.36	10.78
	5/6/93			6.37	10.77
	6/15/93			7.04	10.10
	7/26/93			Inaccessible - VES	
	8/31/93			Inaccessible - VES	
	9/27/93			Inaccessible - VES	
	10/19/93			Inaccessible - VES	
	11/15/93			Inaccessible - VES	
	12/17/93			Inaccessible - VES	
	2/7/94			Inaccessible - VES	
	5/20/94			Inaccessible - VES	
	8/22/94	16.84	*	8.08	8.76
	11/2/94			Inaccessible - VES	
	2/14/95			Inaccessible - VES	
	5/19/95			11.77	5.07
	8/22/95			7.22	9.62
	10/25/95			12.11	4.73
	2/9/96			Inaccessible	
	4/11/96			11.20	5.64

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3	2/19/92	16.91			
	1/26/93			5.82	11.09
	2/4/93			6.01	10.90
	3/9/93			5.88	11.03
	5/6/93			6.38	10.53
	6/15/93			Inaccessible - VES	
	7/26/93			7.22	9.69
	8/31/93			7.87	9.04
	9/27/93			8.58	8.33
	10/19/93			9.13	7.78
	11/15/93			8.84	8.07
	12/17/93			7.80	9.11
	2/7/94			8.43	8.48
	5/20/94			6.79	10.12
	8/22/94	16.86	*	8.32	8.54
	11/2/94			10.98	5.88
	2/14/95			7.93	8.93
	5/19/95			8.44	8.42
	8/22/95			7.54	9.32
	10/25/95			9.03	7.83
	2/9/96			7.05	9.81
	4/11/96			7.44	9.42

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-4	6/25/92	17.18			
	1/26/93			5.91	11.27
	2/4/93			6.14	11.04
	3/9/93			5.81	11.37
	5/6/93			6.49	10.69
	6/15/93			6.34	10.84
	7/26/93			7.29	9.89
	8/31/93			8.02	9.16
	9/27/93			Inaccessible - Car On Well	
	10/19/93			9.14	8.04
	11/15/93			9.01	8.17
	12/17/93			7.91	9.27
	2/7/94			8.02	9.16
	5/20/94			6.85	10.33
	8/22/94	17.13	*	8.48	8.65
	11/2/94			10.52	6.61
	2/14/95			6.99	10.14
	5/19/95			7.61	9.52
	8/22/95			7.62	9.51
	10/25/95			8.62	8.51
	2/9/96			6.60	10.53
	4/11/96			6.54	10.59

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-5	6/25/92	16.37			
	1/26/93			Not Monitored	
	2/4/93			Inaccessible	
	3/9/93			5.45	10.92
	5/6/93			6.00	10.37
	6/15/93			7.81	8.56
	7/26/93			Inaccessible - VES	
	8/31/93			Inaccessible - VES	
	9/27/93			Inaccessible - VES	
	10/19/93			Inaccessible - VES	
	11/15/93			Inaccessible - VES	
	12/17/93			Inaccessible - VES	
	2/7/94			Inaccessible - VES	
	5/20/94			Inaccessible - VES	
	8/22/94	15.59	*	7.27	8.32
	11/2/94			Inaccessible - VES	
	2/14/95			Inaccessible - VES	
	5/19/95			11.55	4.04
	8/22/95			6.02	9.57
	10/25/95			11.05	4.54
	2/9/96			6.70	8.89
	4/11/96			12.21	3.38

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6	6/25/92	17.12			
	1/26/93			6.63	10.49
	2/4/93			6.48	10.64
	3/9/93			6.68	10.44
	5/6/93			6.93	10.19
	6/15/93			7.00	10.12
	7/26/93			7.25	9.87
	8/31/93			7.83	9.29
	9/27/93			8.38	8.74
	10/19/93			8.76	8.36
	11/15/93			8.65	8.47
	12/17/93			7.78	9.34
	2/7/94			7.90	9.22
	5/20/94			6.95	10.17
	8/22/94	17.05	*	8.17	8.88
	11/2/94			10.56	6.49
	2/14/95			8.08	8.97
	5/19/95			8.51	8.54
	8/22/95			7.50	9.55
	10/25/95			8.61	8.44
	2/9/96			7.26	9.79
	4/11/96			7.41	9.64

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-7	6/25/92	16.71			
	1/26/93			6.53	10.18
	2/4/93			6.40	10.31
	3/9/93			6.52	10.19
	5/6/93			Inaccessible	
	6/15/93			6.69	10.02
	7/26/93			Inaccessible	
	8/31/93			Inaccessible	
	9/27/93			7.97	8.74
	10/19/93			8.24	8.47
	11/15/93			8.22	8.49
	12/17/94			Inaccessible	
	2/7/94			Inaccessible	
	5/20/94			Inaccessible	
	8/22/94	16.65	*	7.78	8.87
	11/2/94			9.70	6.95
	2/14/95			Inaccessible	
	5/19/95			7.33	9.32
	8/22/95			6.72	9.93
	10/25/95			Inaccessible	
	2/9/96			7.06	9.59
	4/11/96			Inaccessible	

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-8	6/25/92	15.91			
	1/26/93			5.30	10.61
	2/4/93			5.62	10.29
	3/9/93			5.56	10.35
	5/6/93			5.99	9.92
	6/15/93			6.32	9.59
	7/26/93			6.75	9.16
	8/31/93			7.35	8.56
	9/27/93			7.86	8.05
	10/19/93			8.27	7.64
	11/15/93			8.17	7.74
	12/17/93			7.14	8.77
	2/7/94			7.26	8.65
	5/20/94			6.17	9.74
	8/22/94	15.87	*	7.63	8.24
	11/2/94			10.16	5.71
	2/14/95			7.32	8.55
	5/19/95			7.83	8.04
	8/22/95			6.98	8.89
	10/25/95			8.16	7.71
	2/9/96			4.89	10.98
	4/11/96			8.48	7.39

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

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-9	8/22/95	14.44	**	6.00	8.44
	10/25/95			6.71	7.73
	2/9/96			4.87	9.57
	4/11/96			5.40	9.04
MW-10	8/22/95	15.04	**	6.86	8.18
	10/25/95			7.91	7.13
	2/9/96			4.45	10.59
	4/11/96			4.61	10.43
MW-11	8/22/95	10.61	**	5.12	5.49
	10/25/95			Inaccessible	
	2/9/96			2.73	7.88
	4/11/96			3.00	7.61
VW-1	2/19/92	16.83			
	1/26/93 - 4/1196			Not Monitored	
VW-2	2/19/92	17.00			
	1/26/93 - 4/1196			Not Monitored	
VW-3	2/19/92	16.94			
	1/26/93 - 4/1196			Not Monitored	
VW-4	2/19/92	16.81		5.76	11.05
	1/26/93 - 4/1196			Not Monitored	
VW-5	2/19/92	17.20			
	1/26/93 - 4/1196			Not Monitored	
MSL = Mean Sea Level					
TOC = Top of Casing					
VES = Vapor Extraction System					
* = Wells resurveyed 8/4/94					
** = Wells surveyed 6/9/95					

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)
MW-1	2/4/93	120	22	3.1	3.3	10
	5/6/93	710	320	3.1	4.2	20
	9/28/93	Not Accessible - Connected to Vapor Extraction System				
	11/15/93	Not Accessible - Connected to Vapor Extraction System				
	2/7/94	Not Accessible - Connected to Vapor Extraction System				
	5/20/94	Not Accessible - Connected to Vapor Extraction System				
	8/22/94	Not Accessible - Connected to Vapor Extraction System				
	11/3/94	<50	<0.5	<0.5	<0.5	<0.5
	2/14/95	350	40	1.6	15	31
	5/19/95	220	35	2.4	7.2	23
	8/22/95	330	44	1.2	14	21
	10/25/95	<50	1.6	<0.5	<0.5	<0.5
	2/9/96	160	3.2	1.5	0.89	2.7
	4/11/96	1,300	300	85	25	110
MW-2	2/4/93	430	45	0.5	20	30
	5/6/93	2,000	460	2.4	160	66
	9/28/93	Not Accessible - Connected to Vapor Extraction System				
	11/15/93	Not Accessible - Connected to Vapor Extraction System				
	2/7/94	Not Accessible - Connected to Vapor Extraction System				
	5/20/94	Not Accessible - Connected to Vapor Extraction System				
	8/22/94	Not Accessible - Connected to Vapor Extraction System				
	11/2/94	Not Sampled				
	2/14/95	Not Sampled				
	5/19/95	580	75	19	5.1	30
	8/22/95	1,200	130	8.3	84	86
	10/25/95	350	79	1.2	55	13
	2/9/96	<50	1.5	0.53	1.1	1.5
	4/11/96	80	1.5	<0.5	<0.5	<0.5
MW-3	2/4/93	2,900	180	13	210	350
	5/6/93	2,700	270	6.2	300	720
	9/28/93	1,800	92	1.7	99	240
	11/15/93	1,900	100	2.4	85	280
	2/7/94	1,400	69	3.3	100	320
	5/20/94	1,100	64	19	120	180
	8/22/94	77	4.3	<0.5	2.0	5.6
	11/2/94	<50	0 75	<0 5	<0 5	<0 5
	2/14/95	1,300	24	5 2	85	360
	5/19/95	5,300	98	28	650	1,700
	8/22/95	700	4 1	1 1	50	72
	10/25/95	<50	2 4	<0 5	<0 5	1.6
	2/9/96	<50	<0 5	<0 5	<0 5	<0 5
	4/11/96	2,000	11	3 9	190	500

levels drastically increased this qtr. Why?

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)
MW-4	2/4/93	<50	<0.5	<0.5	<0.5	<0.5
	5/6/93	<50	1.6	<0.5	1	2.1
	9/28/93	Not Accessible - Auto on Well				
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5
	2/7/94	<50	<0.5	<0.5	<0.5	2.6
	5/20/94	82	6.2	7.6	3.3	17
	8/22/94	<50	<0.5	<0.5	<0.5	<0.5
	11/2/94	<50	<0.5	0.56	<0.5	<0.5
	2/14/95	<50	<0.5	<0.5	<0.5	<0.5
	5/19/95	66	0.77	0.63	0.87	3.6
	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	Not Sampled				
MW-5	2/4/93	Not Sampled				
	5/6/93	6,200	460	980	300	1,200
	9/28/93	Not Accessible - Connected to Vapor Extraction System				
	11/15/93	Not Accessible - Connected to Vapor Extraction System				
	2/7/94	Not Accessible - Connected to Vapor Extraction System				
	5/20/94	Not Accessible - Connected to Vapor Extraction System				
	8/22/94	Not Accessible - Connected to Vapor Extraction System				
	11/3/94	5,700	800	400	4.7	600
	2/14/95	1,300	290	76	21	140
	5/19/95	600	83	20	5.7	33
	8/22/95	8,100	650	720	54	1,700
	10/25/95	1,500	290	85	15	170
	2/9/96	1,000	120	49	26	130
	4/11/96	210	5.7	<0.5	9.2	22
MW-6	2/4/93	2,300	19	5.4	27	220
	5/6/93	540	44	0.9	7	6.7
	9/28/93	180	2.7	0.73	6.3	13
	11/15/93	180	2.2	0.91	5.4	16
	2/7/94	240	2.9	1.2	3.9	7.1
	5/20/94	600	4.5	2.2	24	66
	8/22/94	400	3.2	1	7.9	40
	11/2/94	150	16	13	65	27
	2/14/95	770	40	29	42	130
	5/19/95	2,400	69	11	99	350
	8/22/95	190	10	17	52	18
	10/25/95	910	55	33	50	160
	2/9/96	4,100	38	99	60	270
	4/11/96	Not Sampled				

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)
MW-7	2/4/93	<50	<0.5	<0.5	<0.5	<0.5
	5/6/93	Not Sampled				
	9/28/93	<50	<0.5	<0.5	<0.5	<0.5
	11/15/93	<50	<0.5	<0.5	<0.5	<0.5
	2/7/94	Not Sampled				
	5/20/94	Not Sampled				
	8/22/94	130	<0.5	<0.5	<0.5	<0.5
	11/2/94	73	<0.5	<0.5	<0.5	<0.5
	2/14/95	Not Sampled				
	5/19/95	<50	<0.5	<0.5	<0.5	2.3
	8/22/95	400	<0.5	<0.5	<0.5	0.76
	10/25/95	Not Sampled				
	2/9/96	Not Sampled				
	4/11/96	Not Sampled				
MW-8	2/4/93	540	150	3.7	5.2	10
	5/6/93	22,000	9,400	46	390	520
	9/28/93	8,000	1,700	22	30	75
	11/15/93	2,000	840	8.8	15	42
	2/7/94	1,700	460	0.6	13	5
	5/20/94	110	98	1.4	1.3	3.4
	8/22/94	51	16	<0.5	<0.5	<0.5
	11/2/94	<50	<0.5	<0.5	<0.5	<0.5
	2/14/95	<50	<0.5	<0.5	<0.5	<0.5
	5/19/95	<50	<0.5	<0.5	<0.5	<0.5
	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	<50	<0.5	<0.5	<0.5	<0.5
MW-9	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	<50	<0.5	<0.5	<0.5	<0.5

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)
MW-10	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	<50	0.67	1.8	1.3	7.7
MW-11	8/22/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	Not Sampled				
	2/9/96	<50	<0.5	<0.5	<0.5	<0.5
	4/11/96	<50	<0.5	<0.5	<0.5	<0.5
< = Less than the detection limit for the specified method of analysis						
ppb = parts per billion						

APPENDIX

B C Analytical

801 Western Avenue
Glendale, CA 91201
818/247-6337
Fax: 818/247-9797

ANALYTICAL REPORT

LOG NO: G96-04-272

Received: 11 APR 96

Mailed: APR 25 1996

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP1001L

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

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	Total Xylenes Isomers ug/L	Carbon Range
RD.			1	50	0.5	0.5	0.5	0.5	
1*MW-1	04/11/96	04/16/96	1	1300	300	85	25	110	C6-C12
2*MW-2	04/11/96	04/16/96	1	80	1.5	<0.5	<0.5	<0.5	C6-C12
3*MW-3	04/11/96	04/16/96	1	2000	11	3.9	190	500	C6-C12
4*MW-5	04/11/96	04/16/96	1	210	5.7	<0.5	9.2	22	C6-C12
5*MW-8	04/11/96	04/16/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
6*MW-9	04/11/96	04/17/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
7*MW-10	04/11/96	04/16/96	1	<50	0.67	1.8	1.3	7.7	C6-C12
8*MW-11	04/11/96	04/16/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Karen Petryna
1127 Lincoln Ave., Alameda
ALAMEDA COUNTY.

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G96-04-272

Received: 11 APR 96

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

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP1001L

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	Total Xylenes Isomers ug/L	Carbon Range
RDL			1	50	0.5	0.5	0.5	0.5	
9*FB	04/11/96	04/16/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
10*TB	04/11/96	04/16/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Dick Swenson, 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.

ORDER PLACED FOR CLIENT: Texaco Environmental Services 9604272 :
BC ANALYTICAL : GLEN LAB : 15:05:36 24 APR 1996 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
)604272*1	MW-1	GAS.BTX.TESNC	04.16.96	8015M.TX	536-21	96242	8171
)604272*2	MW-2	GAS.BTX.TESNC	04.16.96	8015M.TX	536-21	96243	8501
)604272*3	MW-3	GAS.BTX.TESNC	04.16.96	8015M.TX	536-21	96243	8501
)604272*4	MW-5	GAS.BTX.TESNC	04.16.96	8015M.TX	536-21	96243	8501
)604272*5	MW-8	GAS.BTX.TESNC	04.16.96	8015M.TX	536-21	96243	8501
)604272*6	MW-9	GAS.BTX.TESNC	04.17.96	8015M.TX	536-23	96555	8171
)604272*7	MW-10	GAS.BTX.TESNC	04.16.96	8015M.TX	536-30	96915	8501
)604272*8	MW-11	GAS.BTX.TESNC	04.16.96	8015M.TX	536-30	96915	8501
)604272*9	EB	GAS.BTX.TESNC	04.16.96	8015M.TX	536-30	96915	8501
)604272*10	TB	GAS.BTX.TESNC	04.16.96	8015M.TX	536-30	96915	8501

-**

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

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

BC ANALYTICAL

ORDER QC REPORT FOR G9604272

)ATE REPORTED : 04/24/96

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER		DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. GRO	C6041360*1						
Date Analyzed		04.15.96	96242	04/15/96	04/15/96	Date	N/A
Benzene		04.15.96	96242	18.2	15.2	ug/L	120
Toluene		04.15.96	96242	100	97.4	ug/L	103
Ethylbenzene		04.15.96	96242	18.5	20.4	ug/L	91
Total Xylene Isomers		04.15.96	96242	105	119	ug/L	88
TPH (Gasoline Range)		04.15.96	96242	1020	1100	ug/L	93
a,a,a-Trifluorotoluene	Rep.	04.15.96	96242	42.0	50.0	ug/L	84
a,a,a-Trifluorotoluene	Th.	04.15.96	96242	50.0	50.0	ug/L	100
2. GRO	C6041610*1						
Date Analyzed		04.16.96	96243	04/16/96	04/16/96	Date	N/A
Benzene		04.16.96	96243	17.6	15.2	ug/L	116
Toluene		04.16.96	96243	100	97.4	ug/L	103
Ethylbenzene		04.16.96	96243	17.9	20.4	ug/L	88
Total Xylene Isomers		04.16.96	96243	102	119	ug/L	86
TPH (Gasoline Range)		04.16.96	96243	1060	1100	ug/L	96
a,a,a-Trifluorotoluene	Rep.	04.16.96	96243	41.6	50.0	ug/L	83
a,a,a-Trifluorotoluene	Th.	04.16.96	96243	50.0	50.0	ug/L	100
3. GRO (8020)	C6041783*1						
Date Analyzed		04.17.96	96555	04/17/96	04/17/96	Date	N/A
Benzene		04.17.96	96555	16.0	15.2	ug/L	105
Toluene		04.17.96	96555	94.7	97.4	ug/L	97
Ethylbenzene		04.17.96	96555	19.9	20.4	ug/L	98
Total Xylene Isomers		04.17.96	96555	119	119	ug/L	100
TPH (Gasoline Range)		04.17.96	96555	1150	1100	ug/L	105
a,a,a-Trifluorotoluene	Rep.	04.17.96	96555	53.9	50.0	ug/L	108
a,a,a-Trifluorotoluene	Th.	04.17.96	96555	50.0	50.0	ug/L	100
4. GRO (8020)	C6041784*1						
Date Analyzed		04.17.96	96555	04/17/96	04/17/96	Date	N/A
Benzene		04.17.96	96555	15.1	15.2	ug/L	99
Toluene		04.17.96	96555	92.9	97.4	ug/L	95
Ethylbenzene		04.17.96	96555	19.2	20.4	ug/L	94
Total Xylene Isomers		04.17.96	96555	114	119	ug/L	96
TPH (Gasoline Range)		04.17.96	96555	1130	1100	ug/L	103
a,a,a-Trifluorotoluene	Rep.	04.17.96	96555	55.0	50.0	ug/L	110
a,a,a-Trifluorotoluene	Th.	04.17.96	96555	50.0	50.0	ug/L	100
5. GRO	C6041616*1						
Date Analyzed		04.16.96	96915	04/16/96	04/16/96	Date	N/A
Benzene		04.16.96	96915	16.8	15.2	ug/L	111
Toluene		04.16.96	96915	96.8	97.4	ug/L	99
Ethylbenzene		04.16.96	96915	22.0	20.4	ug/L	108
Total Xylene Isomers		04.16.96	96915	121	119	ug/L	102
TPH (Gasoline Range)		04.16.96	96915	1000	1100	ug/L	91
a,a,a-Trifluorotoluene	Rep.	04.16.96	96915	51.7	50.0	ug/L	103
a,a,a-Trifluorotoluene	Th.	04.16.96	96915	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9604272

ATE REPORTED : 04/24/96

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

ARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
. GRO (8020)							
Date Analyzed		04.17.96	96555	04/17/96	04/17/96	Date	N/A
Benzene		04.17.96	96555	16.0	15.1	ug/L	6
Toluene		04.17.96	96555	94.7	92.9	ug/L	2
Ethylbenzene		04.17.96	96555	19.9	19.2	ug/L	4
Total Xylene Isomers		04.17.96	96555	119	114	ug/L	4
TPH (Gasoline Range)		04.17.96	96555	1150	1130	ug/L	2
a,a,a-Trifluorotoluene Rep.		04.17.96	96555	53.9	55.0	ug/L	2
a,a,a-Trifluorotoluene Th.		04.17.96	96555	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9604272

ATE REPORTED : 04/24/96

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

ARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
. GRO	9604187*1						
Benzene		04.15.96	96242	116	113	15.2	ug/L
Toluene		04.15.96	96242	98	98	98.5	ug/L
Ethylbenzene		04.15.96	96242	88	88	20.4	ug/L
Total Xylene Isomers		04.15.96	96242	85	85	120	ug/L
TPH (Gasoline Range)		04.15.96	96242	97	97	1100	ug/L
a,a,a-Trifluorotoluene	Rep.	04.15.96	96242	81	82	50.0	ug/L
a,a,a-Trifluorotoluene	Th.	04.15.96	96242	100	100	50.0	ug/L
. GRO	9604245*9						
Benzene		04.16.96	96243	115	119	15.2	ug/L
Toluene		04.16.96	96243	105	108	97.4	ug/L
Ethylbenzene		04.16.96	96243	91	92	20.4	ug/L
Total Xylene Isomers		04.16.96	96243	88	91	119	ug/L
TPH (Gasoline Range)		04.16.96	96243	98	98	1100	ug/L
a,a,a-Trifluorotoluene	Rep.	04.16.96	96243	84	83	50.0	ug/L
a,a,a-Trifluorotoluene	Th.	04.16.96	96243	100	100	50.0	ug/L
. GRO	9604272*7						
Benzene		04.16.96	96915	109	115	15.9	ug/L
Toluene		04.16.96	96915	114	121	99.2	ug/L
Ethylbenzene		04.16.96	96915	115	122	21.7	ug/L
Total Xylene Isomers		04.16.96	96915	108	113	127	ug/L
TPH (Gasoline Range)		04.16.96	96915	96	92	1100	ug/L
a,a,a-Trifluorotoluene	Rep.	04.16.96	96915	114	116	50.0	ug/L
a,a,a-Trifluorotoluene	Th.	04.16.96	96915	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9604272

ATE REPORTED : 04/24/96

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

ARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
. GRO	9604187*1						
Date Analyzed		04.15.96	96242	04/15/96	04/15/96	Date	N/A
Benzene		04.15.96	96242	17.6	17.2	ug/L	2
Toluene		04.15.96	96242	96.6	96.2	ug/L	0
Ethylbenzene		04.15.96	96242	17.9	17.9	ug/L	0
Total Xylene Isomers		04.15.96	96242	102	102	ug/L	0
TPH (Gasoline Range)		04.15.96	96242	1070	1070	ug/L	0
a,a,a-Trifluorotoluene	Rep.	04.15.96	96242	40.5	41.2	ug/L	2
a,a,a-Trifluorotoluene	Th.	04.15.96	96242	50.0	50.0	ug/L	0
. GRO	9604245*9						
Date Analyzed		04.16.96	96243	04/16/96	04/16/96	Date	N/A
Benzene		04.16.96	96243	17.5	18.1	ug/L	3
Toluene		04.16.96	96243	102	105	ug/L	3
Ethylbenzene		04.16.96	96243	18.5	18.8	ug/L	2
Total Xylene Isomers		04.16.96	96243	105	108	ug/L	3
TPH (Gasoline Range)		04.16.96	96243	1080	1080	ug/L	0
a,a,a-Trifluorotoluene	Rep.	04.16.96	96243	42.1	41.7	ug/L	1
a,a,a-Trifluorotoluene	Th.	04.16.96	96243	50.0	50.0	ug/L	0
. GRO	9604272*7						
Date Analyzed		04.16.96	96915	04/16/96	04/16/96	Date	N/A
Benzene		04.16.96	96915	17.3	18.2	ug/L	5
Toluene		04.16.96	96915	113	120	ug/L	6
Ethylbenzene		04.16.96	96915	24.7	26.1	ug/L	6
Total Xylene Isomers		04.16.96	96915	136	143	ug/L	5
TPH (Gasoline Range)		04.16.96	96915	1060	1010	ug/L	5
a,a,a-Trifluorotoluene	Rep.	04.16.96	96915	57.0	58.2	ug/L	2
a,a,a-Trifluorotoluene	Th.	04.16.96	96915	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9604272

ATE REPORTED : 04/24/96

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

ARAMETER		DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
. GRO	B604708*1						
Date Analyzed		04.15.96	96242	04/15/96	NA	Date	8015M.TX
Benzene		04.15.96	96242	0	0.5	ug/L	8015M.TX
Toluene		04.15.96	96242	0	0.5	ug/L	8015M.TX
Ethylbenzene		04.15.96	96242	0	0.5	ug/L	8015M.TX
Total Xylene Isomers		04.15.96	96242	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)		04.15.96	96242	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Rep.	04.15.96	96242	48.8	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Th.	04.15.96	96242	50.0	NA	ug/L	8015M.TX
. GRO	B604833*1						
Date Analyzed		04.16.96	96243	04/16/96	NA	Date	8015M.TX
Benzene		04.16.96	96243	0	0.5	ug/L	8015M.TX
Toluene		04.16.96	96243	0	0.5	ug/L	8015M.TX
Ethylbenzene		04.16.96	96243	0	0.5	ug/L	8015M.TX
Total Xylene Isomers		04.16.96	96243	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)		04.16.96	96243	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Rep.	04.16.96	96243	50.8	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Th.	04.16.96	96243	50.0	NA	ug/L	8015M.TX
. GRO (8020)	B604920*1						
Date Analyzed		04.17.96	96555	04/17/96	NA	Date	8015M
Benzene		04.17.96	96555	0	0.3	ug/L	8015M
Toluene		04.17.96	96555	0	0.3	ug/L	8015M
Ethylbenzene		04.17.96	96555	0	0.3	ug/L	8015M
Methyl-tert-butylether		04.17.96	96555	0	30	ug/L	8015M
Total Xylene Isomers		04.17.96	96555	0	0.6	ug/L	8015M
TPH (Gasoline Range)		04.17.96	96555	0	100	ug/L	8015M
a,a,a-Trifluorotoluene	Rep.	04.17.96	96555	47.6	0.5	ug/L	8015M
a,a,a-Trifluorotoluene	Th.	04.17.96	96555	50.0	NA	ug/L	8015M
. GRO	B604837*1						
Date Analyzed		04.16.96	96915	04/16/96	NA	Date	8015M.TX
Benzene		04.16.96	96915	0	0.5	ug/L	8015M.TX
Toluene		04.16.96	96915	0	0.5	ug/L	8015M.TX
Ethylbenzene		04.16.96	96915	0	0.5	ug/L	8015M.TX
Total Xylene Isomers		04.16.96	96915	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)		04.16.96	96915	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Rep.	04.16.96	96915	60.7	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Th.	04.16.96	96915	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 15:06:47 24 APR 1996 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
8604272*1							
8015M.TX	a,a,a-Trifluorotoluene	Re96242	04/16/96	50.6	50.0	101	
8604272*2							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	56.8	50.0	114	
8604272*3							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	50.6	50.0	101	
8604272*4							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	50.0	50.0	100	
8604272*5							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	50.7	50.0	101	
8604272*6							
8015M.TX	a,a,a-Trifluorotoluene	Re96555	04/17/96	50.7	50.0	101	
8604272*7							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	50.4	50.0	101	
8604272*8							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	50.0	50.0	100	
8604272*9							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	50.9	50.0	102	
8604272*10							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	52.3	50.0	105	

SURROGATE, RECOVERIES :
BC ANALYTICAL : GLEN LAB : 15:06:54 24 APR 1996 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
604187*1*R1							
8015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	48.3	50.0	97	
604187*1*S1							
8015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	40.5	50.0	81	
604187*1*S2							
8015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	41.2	50.0	82	
604187*1*T							
8015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	50.0	50.0	100	
604245*9*R1							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	48.1	50.0	96	
604245*9*S1							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	42.1	50.0	84	
604245*9*S2							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	41.7	50.0	83	
604245*9*T							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	50.0	50.0	100	
604272*7*R1							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	50.4	50.0	101	
604272*7*S1							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	57.0	50.0	114	
604272*7*S2							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	58.2	50.0	116	
604272*7*T							
8015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	50.0	50.0	100	
604708*1*MB							
8015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	48.8	50.0	98	
604833*1*MB							
8015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	50.8	50.0	102	

SURROGATE,RECOVERIES :
BC ANALYTICAL : GLEN LAB : 15:06:55 24 APR 1996 - P. 2 :

ETHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
504837*1*MB							
015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	60.7	50.0	121	
504920*1*MB							
015M	a,a,a-Trifluorotoluene	Re96555	04/17/96	47.6	50.0	95	
5041360*1*LC							
015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	42.0	50.0	84	
5041360*1*LT							
015M.TX	a,a,a-Trifluorotoluene	Re96242	04/15/96	50.0	50.0	100	
5041610*1*LC							
015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	41.6	50.0	83	
5041610*1*LT							
015M.TX	a,a,a-Trifluorotoluene	Re96243	04/16/96	50.0	50.0	100	
6041616*1*LC							
015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	51.7	50.0	103	
6041616*1*LT							
015M.TX	a,a,a-Trifluorotoluene	Re96915	04/16/96	50.0	50.0	100	
6041783*1*LC							
015M	a,a,a-Trifluorotoluene	Re96555	04/17/96	53.9	50.0	108	
6041783*1*LT							
015M	a,a,a-Trifluorotoluene	Re96555	04/17/96	50.0	50.0	100	
5041784*1*LC							
015M	a,a,a-Trifluorotoluene	Re96555	04/17/96	55.0	50.0	110	
5041784*1*LT							
015M	a,a,a-Trifluorotoluene	Re96555	04/17/96	50.0	50.0	100	

Chain of Custody

Page 1 of 1

Texaco Environmental Services
108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 236-3541
FAX: (510) 237-7821

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: 960411.5
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): Shawn Howell
Sampler Signature:
Date Samples Collected: 04/11/96

4°C. Condition good

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 8240/824	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead	Comments
MW-1		4/11 1216	3	VOA	W	HCL	X								
MW-2		1227	3				X								
MW-3		1134	3				X								
MW-5		1235	3				X								
MW-8		1104	3				X								
MW-9		1044	3				X								
MW-10		1010	3				X								
MW-11		0942	3				X								
EB		0958	3				X								
TB		"	2				X								

Relinquished by: (Signature)	Date: 4-12-96	Time: 1115	Received by: (Signature) Bill Leyva
Relinquished by: (Signature) Bill Leyva	Date: 4-12-96	Time: 125	Received by: (Signature) S. Vanderberg
Relinquished by: (Signature) S. Vanderberg	Date: 4-12-96	Time: 4:80	Received by: (Signature)
Method of Shipment:			Lab Comments:

Received by: Bill Leyva — Date: 4-12-96 — Time: 1115
Received by: S. Vanderberg — Date: 4-12-96 — Time: 3:80

P:\GWMP\FORMS\TEX-COC XLS

Well Gauging Data

Project Name: 24881450
Project Number: 960411 51

Date: 04/11/96
Recorded By: SHAWN

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-1		—	—		—		INACCESSIBLE TO GAUGE
MW-2		—	4		11.20		GRT. SYSTEM
MW-3		19.60	4		7.44		
MW-4		20.29 ~~20.30~~	4		~~7.44~~	6.54	WSPA
MW-5		—	4		12.21		
MW-6		19.48	2		7.41		WSPA
MW-7		—	—		—	—	INACCESSIBLE
MW-8		19.72	4		8.48		
MW-9		14.50	4		5.40		
MW-10		14.25	4		4.61		
MW-11		13.75	4		3.0		

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 #: 96041151	Texaco ID#: 6246814500
Sampler: SUSAN	Date: 04/11/96
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8 ____
Total Well Depth:	Depth to Water: UNABLE TO GAUGE
Depth to Free Product:	Thickness of Free Product: WELL UNDER WRECKED AUTO

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 X
- Other: _____

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

How much water purged?

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1215	71.0	6.8	600	29.8	—	→ Should've measured more than once. Due to fact that it is hooked up to extraction system

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

Sampling Time: 1216 Sampling Date: 04/11/96

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 #: 96041151	Texaco ID#: 624861450
Sampler: SHAWN	Date: 04/11/96
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 11.20
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 X
- Other: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1225	70.8	6.8	800	12.9	—	CLR 1.

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

Sampling Time: 1227 Sampling Date: 04/11/96

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 #: 96041151	Texaco ID#: 6248/1459
Sampler: SMAW	Date: 04/11/96
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.60	Depth to Water: 7.44
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	radius² * 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: ___

6.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 24 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1125	66.6	7.0	1000	25.9	8	LR 2
1127	66.6	6.6	900	13.4	16	
1129	67.0	6.8	900	6.3	24	

Did well dewater? Yes (No)

Gallons actually evacuated: 24

Sampling Time: 1134

Sampling Date: 04/11/96

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 #: 96041151	Texaco ID#: 6248/450
Sampler: SHAWN	Date: 04/11/96
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: —	Depth to Water: 12.21
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 X
- Other: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1232	65.8	6.8	800	18.8	—	CLR 2

Did well dewater? Yes (No)	Gallons actually evacuated: —
Sampling Time: 1235	Sampling Date: 04/11/96
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 #: 96041151	Texaco ID#: 6248814 50
Sampler: SHAWN	Date: 04/11/96
Well I.D.: MW-7	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: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
	CLR	ODOR	WELL	DURING	ENTIRE	SAMPLE
	EVENT					

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	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 #: 96041151	Texaco ID#: 624881450
Sampler: SHAWN	Date: 04 | 11 | 96
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.72	Depth to Water: 8.48
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 X
- Extraction Pump
- Other: _____

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

7.41 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 22.25 (Calculated Volume) Gals. ✓

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1052	64.2	6.0	200	7200	7.5	
1054	64.2	6.0	200	7200	15.0	
1056	64.0	6.4	200	7200	23.	

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

Sampling Time: ~~04/11/96~~ 1104 Sampling Date: 04/11/96

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 #: 96041151	Texaco ID#: 624881450
Sampler: SHAUN	Date: 04/11/96
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.50	Depth to Water: 5.40
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 X
- Extraction Pump
- Other: _____

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

6.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 18.0 (Calculated Volume) Gals. ✓

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1036	66.0	6.8	200	7200	6	
1038	65.4	6.8	200	7200	12	
1040	65.8	6.6	200	7200	18	

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Time: 1044 Sampling Date: 04/11/96

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 #: 960411 S1	Texaco ID#: 624 8814 50
Sampler: SNOWL	Date: 04/11/96
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.25	Depth to Water: 4.61
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 X
- Extraction Pump
- Other: _____

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

6.36 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 19.0 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1000	62.8	6.2	800	7200	7	
1002	61.4	6.2	1000	7200	14	
1004	61.6	6.4	1000	7200	19	

Did well dewater? Yes (No)

Gallons actually evacuated: 19.0

Sampling Time: 1010

Sampling Date: 04/11/96

Sample I.D.: MW-10

Laboratory: BC Analytical

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

Equipment Blank I.D.: EB AT 0958 Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 96041151	Texaco ID#: 6248814 50
Sampler: SHAWN	Date: 04/11/96
Well I.D.: MW-11	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 13.75	Depth to Water: 3.0
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: _____

7.0	x	3	=	21	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
0934	63.8	7.0	700	7202	7.	BRN
0936	64.6	7.0	600	7200	14.	
0938	64.6	7.0	800	7200	21	

Did well dewater? Yes (No)	Gallons actually evacuated: 21
Sampling Time: 0942	Sampling Date: 04/11/96
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 #: 624661450
Address: 1127 LINCOLN AVE.
City, State, ZIP: ALAMEDA, CA.

Well I.D.	Gals.	Well I.D.	Gals.
MW3	24		
MW4	28		
MW6	6		
MW-8	23		
MW9	18		
MW10	19		
MW11	21		
Total gals.	139	added rinse water	20
Total Gals. Recovered	159		

Job #: 9604151
Date: 04/11/96
Time: 1400
Signature:

REC'D AT:
Date: 04/11/96
Time: 1900
Signature:

QUARTERLY SUMMARY REPORT
Former Texaco Service Station
1127 Lincoln Avenue, Alameda, California
Alameda County
First 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, were installed in June 1992 and three additional monitoring wells MW-9, MW-10, and MW-11 were installed in May 1995. Nine soil borings were also drilled in February 1995. A dual soil vapor extraction and groundwater extraction remedial system has been operating since September 1993. Monitoring well MW-5 was 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

Monitoring and sampling of the monitoring wells. Summary of the monitoring and sampling results is presented in Texaco's report dated January 22, 1996. Operation and maintenance of the dual soil vapor extraction and ground water extraction system was performed on a weekly basis.

CHARACTERIZATION STATUS

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

GROUND WATER: The extent of petroleum hydrocarbons in the groundwater has been delineated in the down gradient direction. Downgradient wells MW-8 through MW-11 have indicated no detectable concentrations of TPH as gasoline, BTEX or MTBE since November 1994. However upgradient monitoring wells MW-2 and MW-6 have shown detectable concentrations of petroleum hydrocarbons.

REMEDIATION STATUS

A dual soil vapor extraction and groundwater extraction system is in operation (see above). Vapors are extracted from five vapor extraction wells and three combination wells and groundwater is extracted from the three combination wells.

WORK TO BE PERFORMED NEXT QUARTER

Continuation of the quarterly ground water monitoring and sampling program and the operation and maintenance of the dual soil vapor extraction and ground water extraction system on a weekly basis.

SITE CONTACTS

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