



Texaco Refining
and Marketing Inc.

108 Cutting Boulevard
Richmond, CA 94804

ENVIRONMENTAL
PROTECTION

95 NOV 20 PM 3: 54

*after for records
see file # 15
see file # 15
see file # 15*

November 18, 1996

ENV - STUDIES, SURVEYS, & REPORTS
930 Springtown Blvd., Livermore, California
Quarterly Monitoring Report

Ms. Eva Chu
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Fl. 2
Alameda, CA 94502-6577

Dear Ms. Chu:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on August 18, 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-northwest (see Plate 2, Groundwater Gradient Map) at .003 ft. per ft. TPHg and benzene concentrations are shown on Plate 3. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively. As requested by Alameda County Department of Environmental Health, monitoring wells MW-2, MW-4, MW-6, and MW-8 are sampled semi-annually in February and August; monitoring wells MW-1, MW-3, MW-5, MW-A, and MW-B are sampled quarterly; and monitoring wells MW-A, MW-B, and MW-1 through MW-8 are gauged quarterly.

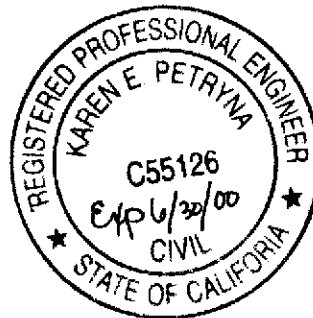
The certified analytical report, chain-of-custody, field data sheets, bill of lading, and quarterly summary report are in the Appendix. Texaco's Standard Operating Procedures may be found in the fourth quarter, 1994 monitoring report.

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.
Civil Engineer
Texaco Refining and Marketing, Inc.



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Enclosure

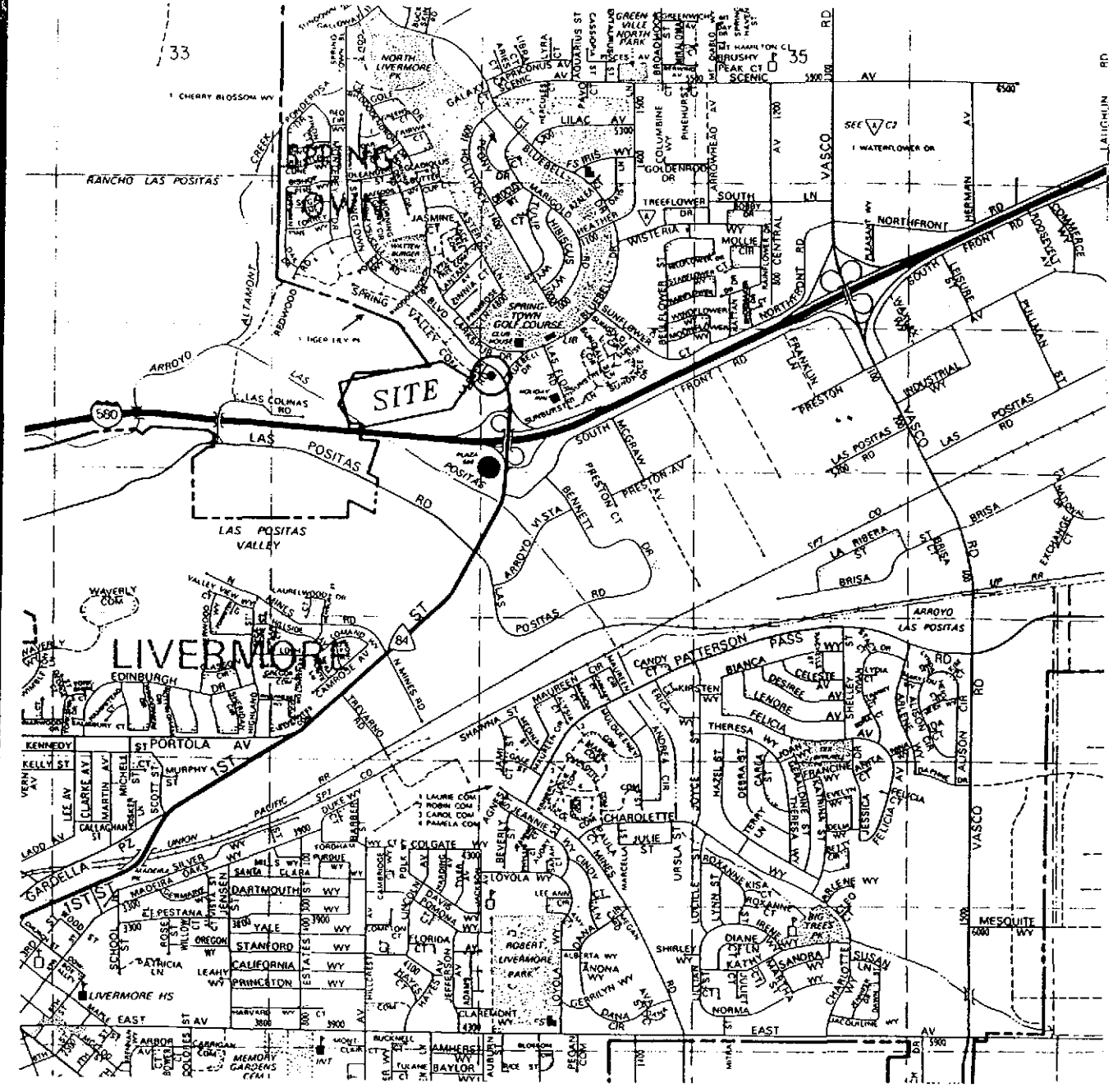
cc: Mr. Timothy Ross
Kaprealian Engineering, Inc.
2401 Stanwell Dr., Suite 400
Concord, CA 94520

Mr. Bob DeNinno
The Southland Corporation
19033 West Valley Hwy., D-104
Kent, WA 98032

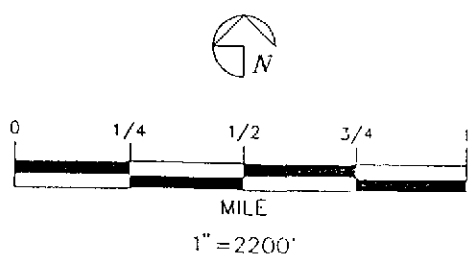
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RE 

GROUNDWATER MONITORING AND SAMPLING
Third Quarter, 1996
at the
Former Texaco Service Station
930 Springtown Boulevard
Livermore, California

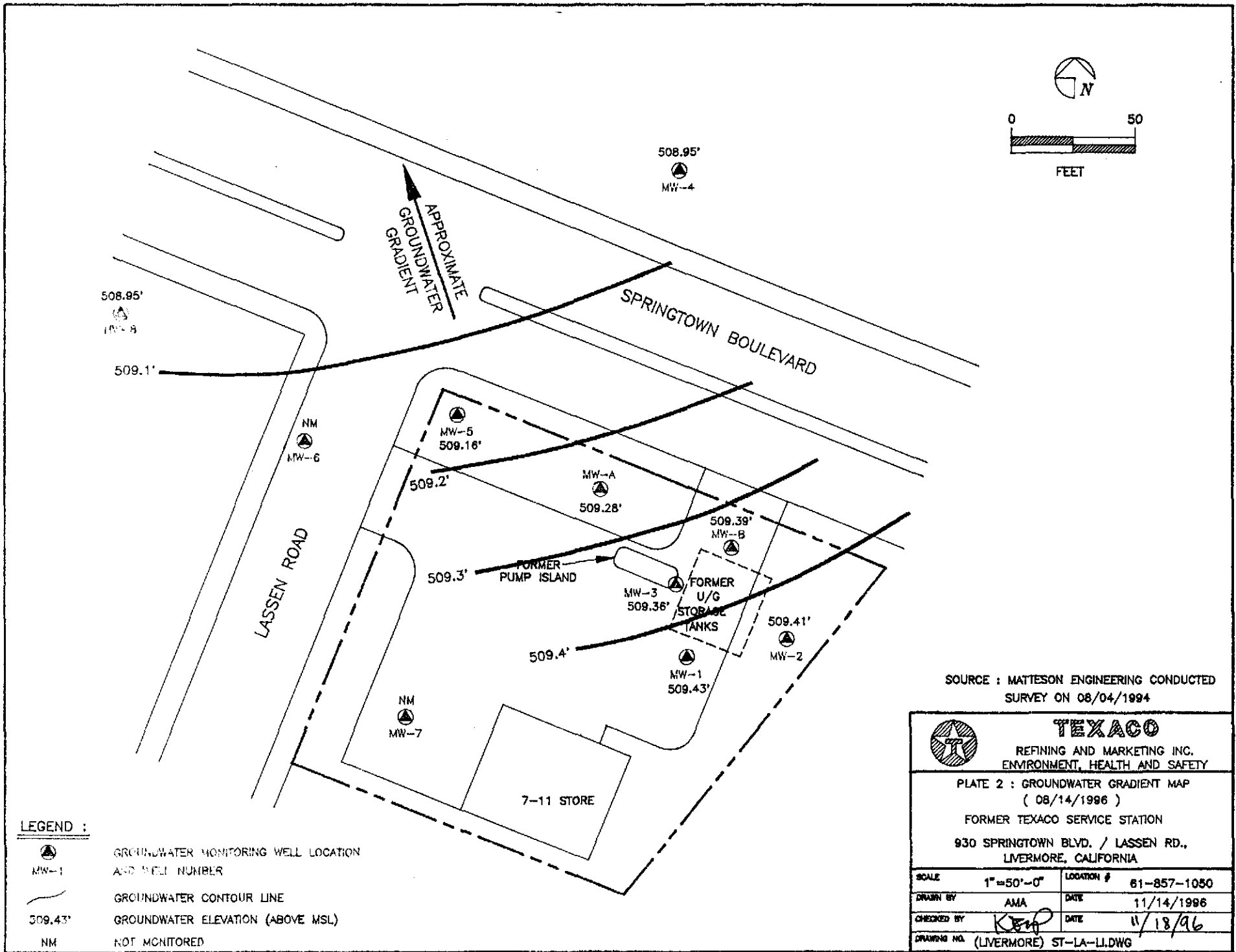


SOURCE:
 1993 THE THOMAS GUIDE
 ALAMEDA COUNTY, PAGE 51 (C3)



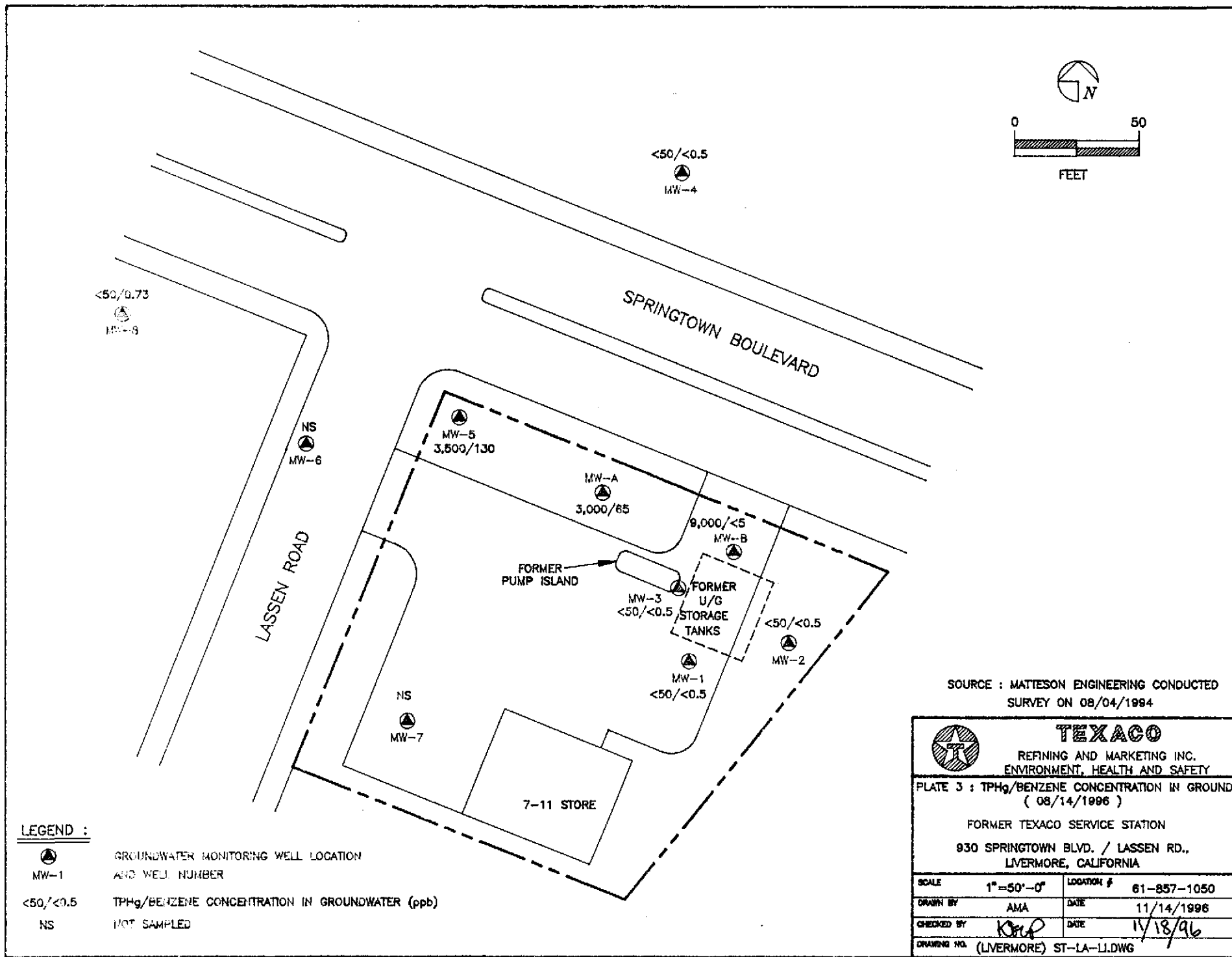
 **TEXACO**
 REFINING AND MARKETING, INC.
 TEXACO ENVIRONMENTAL SERVICES

PLATE 1
 SITE VICINITY MAP
 FORMER TEXACO SERVICE STATION
 930 SPRINGTOWN BLVD. / LASSEN RD.,
 LIVERMORE, CALIFORNIA



LEGEND :

- GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- GROUNDWATER CONTOUR LINE
- 509.43' GROUNDWATER ELEVATION (ABOVE MSL)
- NM NOT MONITORED



LEGEND :

- GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- <50/<0.5 TPHg/BENZENE CONCENTRATION IN GROUNDWATER (ppb)
- NS NOT SAMPLED

SOURCE : MATTESON ENGINEERING CONDUCTED SURVEY ON 08/04/1994

TEXACO REFINING AND MARKETING INC. ENVIRONMENT, HEALTH AND SAFETY	
PLATE 3 : TPHg/BENZENE CONCENTRATION IN GROUND (08/14/1996)	
FORMER TEXACO SERVICE STATION 930 SPRINGTOWN BLVD. / LASSEN RD., LIVERMORE, CALIFORNIA	
SCALE	1" = 50'-0"
LOCATION #	61-857-1050
DRAWN BY	AMA
DATE	11/14/1996
CHECKED BY	KRP
DATE	11/18/96
DRAWING NO. (LIVERMORE) ST-LA-LI.DWG	

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-A					
	1/10/91	519.85			
	1/2/92		13.61	506.24	---
	4/2/92		12.44	507.41	---
	7/21/92		13.35	506.50	---
	10/9/92		12.92	506.93	SD
	1/11/93		11.78	508.07	SD
	5/5/93		11.39	508.46	SD
	8/9/93		12.80	507.05	SD
	10/14/93		13.48	506.37	SD
	1/24/94		12.74	507.11	SD
	5/31/94		12.28	507.57	---
	8/31/94	520.10 *	13.20	506.90	SD
	11/2/94		13.15	506.95	SD
	2/20/95		11.71	508.39	---
	5/9/95		12.37	507.73	---
	8/21/95		11.37	508.73	---
	10/20/95		12.04	508.06	---
	2/7/96		10.11	509.99	---
	4/30/96		10.28	509.82	---
	8/14/96		10.82	509.28	---
MW-B					
	1/10/91	518.16			
	1/2/92		11.27	506.89	---
	4/2/92		10.18	507.98	---
	7/21/92		11.27	506.89	---
	10/9/92		11.64	506.52	SD
	1/11/93		9.65	508.51	SD
	5/5/93		9.28	508.88	SD
	8/9/93		11.02	507.14	SD
	10/14/93		11.34	506.82	SD
	1/24/94		10.54	507.62	SD
	5/31/94		10.19	507.97	---
	8/31/94	518.05 *	10.98	507.07	SD
	11/2/94		10.90	507.15	SD
	2/20/95		9.47	508.58	---
	5/9/95		10.58	507.47	---
	8/21/95		9.34	508.71	---
	10/20/95		9.83	508.22	---
	2/7/96		7.85	510.20	SD
	4/30/96		8.02	510.03	---
	8/14/96		8.66	509.39	SD

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-1	1/10/91	520.76			
	1/2/92		14.11	506.65	---
	4/2/92		12.98	507.78	---
	7/21/92		13.92	506.84	---
	10/9/92		14.25	506.51	---
	1/11/93		12.30	508.46	---
	5/5/93		11.88	508.88	---
	8/9/93		13.63	507.13	---
	10/14/93		13.91	506.85	---
	1/24/93		13.12	507.64	---
	5/31/94		12.74	508.02	---
	8/31/94	520.61 *	13.68	506.93	---
	11/2/94		13.48	507.13	---
	2/20/95		12.02	508.59	---
	5/9/95		12.83	507.78	---
	8/21/95		11.93	508.68	---
	10/20/95		12.40	508.21	---
	2/7/96		10.42	510.19	---
	4/30/96		10.48	510.13	---
	8/14/96		11.18	509.43	---
MW-2	1/10/91	518.46			
	1/2/92		11.96	506.50	---
	4/2/92		10.89	507.57	---
	7/21/92		11.55	506.91	---
	10/9/92		Not Monitored		
	1/11/93		Not Monitored		
	5/5/93		Not Monitored		
	8/9/93		Not Monitored		
	10/14/93		Not Monitored		
	1/24/94		Not Monitored		
	5/31/94		10.37	508.09	---
	8/31/94	518.29 *	11.16	507.13	---
	11/2/94		11.07	507.22	---
	2/20/95		9.66	508.63	---
	5/9/95		10.14	508.15	---
	8/21/95		9.58	508.71	---
	10/20/95		9.91	508.38	---
	2/7/96		8.00	510.29	---
	4/30/96		8.21	510.08	---
	8/14/96		8.88	509.41	---

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-3	1/10/91	519.30			
	1/2/92		12.87	506.43	---
	4/2/92		11.97	507.33	---
	7/21/92		12.60	506.70	---
	10/9/92		12.93	506.37	---
	1/11/93		11.16	508.14	---
	5/5/93		10.72	508.58	---
	8/9/93		12.34	506.96	---
	10/14/93		12.71	506.59	---
	1/24/94		12.03	507.27	---
	5/31/94		11.54	507.76	---
	8/31/94	519.60 *	12.60	507.00	---
	11/2/94		12.16	507.44	---
	2/20/95		11.05	508.55	---
	5/9/95		11.97	507.63	---
	8/21/95		7.60	512.00	---
	10/20/95		11.46	508.14	---
	2/7/96		9.42	510.18	---
	4/30/96		9.60	510.00	---
	8/14/96		10.24	509.36	---
MW-4	1/10/91	518.75			
	1/2/92		12.22	506.53	---
	4/2/92		11.03	507.72	---
	7/21/92		12.36	506.39	---
	10/9/92		12.40	506.35	---
	1/11/93		10.72	508.03	---
	5/5/93		10.21	508.54	---
	8/9/93		12.25	506.50	---
	10/14/93		12.58	506.17	---
	1/24/94		11.72	507.03	---
	5/31/94		11.29	507.46	---
	8/31/94	518.79 *	12.00	506.79	---
	11/2/94		11.96	506.83	---
	2/20/95		10.42	508.37	---
	5/9/95		11.22	507.57	---
	8/21/95		10.51	508.28	---
	10/20/95		10.86	507.93	---
	2/7/96		8.93	509.86	---
	4/30/96		9.03	509.76	---
	8/14/96		9.84	508.95	---

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-5					
	1/10/91	520.50			
	1/2/92		14.56	505.94	---
	4/2/92		13.58	506.92	---
	7/21/92		13.77	506.73	---
	10/9/92		14.09	506.41	---
	1/11/93		12.24	508.26	---
	5/5/93		11.90	508.60	---
	8/9/93		13.35	507.15	---
	10/14/93		13.89	506.61	---
	1/24/94		13.32	507.18	---
	5/31/94		12.75	507.75	---
	8/31/94	521.19 *	14.34	506.85	---
	11/2/94		14.22	506.97	---
	2/20/95		12.78	508.41	SD
	5/9/95		13.41	507.78	---
	8/21/95		12.32	508.87	---
	10/20/95		13.28	507.91	---
	2/7/96		11.31	509.88	---
	4/30/96		11.52	509.67	---
	8/14/96		12.03	509.16	---
MW-6					
	1/10/91	522.26			
	1/2/92		16.64	505.62	---
	4/2/91		15.61	506.65	---
	7/21/92		15.53	506.73	---
	10/9/92		15.69	506.57	---
	1/11/93		Not Monitored		
	5/5/93		Not Monitored		
	8/9/93		14.50	507.76	---
	10/14/93		Not Monitored		
	1/24/94		15.09	507.17	---
	5/31/94		14.64	507.62	---
	8/31/94	522.18 *	15.32	506.86	---
	11/2/94		15.32	506.86	---
	2/20/95		14.07	508.11	---
	5/9/95		14.30	507.88	---
	8/21/95		Well Inaccessible		
	10/20/95		14.31	507.87	---
	2/7/96		Not Monitored		
	4/30/96		Not Monitored		
	8/14/96		Not Monitored		

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-7					
	1/10/91	522.17			
	1/2/92		11.17	511.00	---
	4/2/92		10.34	511.83	---
	7/21/92		9.02	513.15	---
	10/9/92		Not Monitored		
	1/11/93		Not Monitored		
	5/5/93		Not Monitored		
	8/9/93		Not Monitored		
	10/14/93		Not Monitored		
	1/24/94		Not Monitored		
	5/31/94		9.42	512.75	---
	8/31/94	522.19 *	6.84	515.35	---
	11/2/94		6.48	515.71	---
	2/20/95		7.71	514.48	---
	5/9/95		7.65	514.54	---
	8/21/95		7.83	514.36	---
	10/20/95		8.61	513.58	---
	2/7/96		Not Monitored		
	4/30/96		Not Monitored		
	8/14/96		Not Monitored		

Table 1
Groundwater Elevation Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	Floating Product
MW-8					
	1/10/91	524.04			
	1/2/92		18.42	505.62	---
	4/2/92		17.39	506.65	---
	7/21/92		14.02	510.02	---
	10/9/92		Not Monitored		
	1/11/93		Not Monitored		
	5/5/93		Not Monitored		
	8/9/93		Not Monitored		
	10/14/93		Not Monitored		
	1/24/94		Not Monitored		
	5/31/94		19.65	504.39	---
	8/31/94	524.03 *	17.40	506.63	---
	11/2/94		17.38	506.65	---
	2/20/95		15.99	508.04	---
	5/9/95		16.54	507.49	---
	8/21/95		15.77	508.26	---
	10/20/95		16.24	507.79	---
	2/7/96		14.42	509.61	---
	4/30/96		14.65	509.38	---
	8/14/96		15.08	508.95	---
*Wells resurveyed on 8/4/94					
MSL = Mean Sea Level					
TOC = Top of Casing					
--- = None Present					
SD = Sheen detected in purge water					

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-A							
	1/2/92	SP	SP	SP	SP	SP	NA
	4/2/92	27,000	1,200	570	1,700	2,300	NA
	7/21/92	57,000	1,500	1,800	2,700	7,100	NA
	10/9/92	56,000	2,900	2,600	4,600	12,000	NA
	1/11/93	NS	NS	NS	NS	NS	NA
	5/5/93	NS	NS	NS	NS	NS	NA
	8/9/93	NS	NS	NS	NS	NS	NA
	10/14/93	NS	NS	NS	NS	NS	NA
	1/24/94	1,400,000	6,900	2,100	15,000	38,000	NA
	5/31/94	48,000	1,200	900	1,900	4,200	NA
	8/31/94	24,000	140	120	830	1,500	NA
	11/2/94	15,000	230	360	1,100	1,800	NA
	2/20/95	12,000	290	330	570	1,300	NA
	5/9/95	1,200	6.1	5.9	12	15	NA
	8/21/95	9,600	85	140	250	860	160
	10/20/95	360	5.2	7.9	15	43	NA
	2/7/96	6,100	130	180	320	840	NA
	4/30/96	410	1.2	0.67	1.2	1.5	NA
	8/14/96	3,000	65	75	170	460	57
MW-B							
	1/2/92	SP	SP	SP	SP	SP	NA
	4/2/92	1,900	ND	39	24	35	NA
	7/21/92	16,000	180	1,600	270	1,100	NA
	10/9/92	38,000	490	8,300	1,400	5,100	NA
	1/11/93	NS	NS	NS	NS	NS	NA
	5/5/93	NS	NS	NS	NS	NS	NA
	8/9/93	NS	NS	NS	NS	NS	NA
	10/14/93	NS	NS	NS	NS	NS	NA
	1/24/94	23,000	110	1,700	600	1,900	NA
	5/31/94	13,000	780	310	370	1,400	NA
	8/31/94	35,000	160	2,800	1,000	4,500	NA
	11/2/94	2,500	170	3,200	1,100	4,700	NA
	2/20/95	10,000	46	1,400	330	1,200	NA
	5/9/95	4,100	9.1	47	26	30	NA
	8/21/95	4,000	9.6	110	120	270	98
	10/20/95	9,300	35	1,300	370	1,300	NA
	2/7/96	8,900	33	700	110	360	NA
	4/30/96	5,500	17	460	120	400	NA
	8/14/96	9,000	<5	260	120	320	<300

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-1							
	1/2/92	16	6	ND	ND	ND	NA
	4/2/92	ND	ND	ND	ND	ND	NA
	7/21/92	<50	3.2	<0.5	<0.5	<0.5	NA
	10/9/92	<50	8.5	<0.5	<0.5	<0.5	NA
	1/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/5/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/9/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/14/93	440	16	2.9	2.9	11	NA
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/9/95	450	22	25	23	100	NA
	8/21/95	58	<0.5	1.5	1.8	4.5	<10
	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
	4/30/96	NS	NS	NS	NS	NS	NA
	8/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-2							
	1/2/92	ND	ND	ND	ND	ND	NA
	4/2/91	ND	ND	ND	ND	ND	NA
	7/21/92	NS	NS	NS	NS	NS	NA
	10/9/92	NS	NS	NS	NS	NS	NA
	1/11/93	NS	NS	NS	NS	NS	NA
	5/5/93	NS	NS	NS	NS	NS	NA
	8/9/93	NS	NS	NS	NS	NS	NA
	10/14/93	NS	NS	NS	NS	NS	NA
	1/24/94	NS	NS	NS	NS	NS	NA
	5/31/94	NS	NS	NS	NS	NS	NA
	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	NS	NS	NS	NS	NS	NA
	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/9/95	NS	NS	NS	NS	NS	NA
	8/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/20/95	NS	NS	NS	NS	NS	NA
	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
	4/30/96	NS	NS	NS	NS	NS	NA
	8/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-3							
	1/2/92	340	0.4	ND	ND	ND	NA
	4/2/92	160	5	ND	0.3	0.5	NA
	7/21/92	260	1.7	<0.5	<0.5	<0.5	NA
	10/9/92	88	<0.5	<0.5	<0.5	<0.5	NA
	1/11/93	130	<0.5	<0.5	<0.5	<0.5	NA
	5/5/93	340	1.8	<0.5	1.3	<0.5	NA
	8/9/93	610	18	<0.5	2.4	0.9	NA
	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	1/24/94	320	3.5	<0.5	<0.5	<0.5	NA
	5/31/94	830	11	12	5.0	1.2	NA
	8/31/94	660	2	<0.5	1	<0.5	NA
	11/2/94	1,500	260	36	34	76	NA
	2/20/95	410	1.2	1.9	1.4	2.2	NA
	5/9/95	730	23	43	21	95	NA
	8/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
	4/30/96	NS	NS	NS	NS	NS	NA
	8/14/96	<50	<0.5	0.60	<0.5	<0.5	<30
MW-4							
	1/2/92	ND	ND	ND	ND	ND	NA
	4/2/92	ND	ND	ND	ND	ND	NA
	7/21/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/9/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	1/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/5/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/9/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	1/24/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/31/94	NS	NS	NS	NS	NS	NA
	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	NS	NS	NS	NS	NS	NA
	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/9/95	NS	NS	NS	NS	NS	NA
	8/21/95	<50	<0.5	<0.5	<0.5	<0.5	<10
	10/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/7/96	<50	<0.5	<0.5	<0.5	<0.5	NA
	4/30/96	NS	NS	NS	NS	NS	NA
	8/14/96	<50	<0.5	<0.5	<0.5	<0.5	<30

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-5							
	1/2/92	1,800	74	41	84	94	NA
	4/2/92	ND	ND	ND	ND	ND	NA
	7/21/92	1,000	69	16	40	31	NA
	10/9/92	3,400	890	51	110	110	NA
	1/11/93	15,000	460	110	900	370	NA
	5/5/93	4,500	160	19	280	110	NA
	8/9/93	2,300	180	19	130	80	NA
	10/14/93	2,200	160	27	90	64	NA
	1/24/94	2,600	69	11	65	25	NA
	5/31/94	3,100	130	64	140	120	NA
	8/31/94	600	20	2.9	14	7.1	NA
	11/2/94	2,300	68	18	52	54	NA
	2/20/95	12,000	130	<30	240	138	NA
	5/9/95	2,500	57	60	54	37	NA
	8/21/95	11,000	91	28	140	120	<100
	10/20/95	2,300	38	3.8	28	19	NA
	2/7/96	1,800	35	8.1	37	20	NA
	4/30/96	NS	NS	NS	NS	NS	NA
	8/14/96	3,500	130	22	170	47	71
MW-6							
	1/2/92	23	ND	0.3	0.6	3	NA
	4/2/92	ND	ND	ND	ND	ND	NA
	7/21/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/9/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	1/11/93	NS	NS	NS	NS	NS	NA
	5/5/93	NS	NS	NS	NS	NS	NA
	8/9/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/14/93	NS	NS	NS	NS	NS	NA
	1/24/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/31/94	NS	NS	NS	NS	NS	NA
	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	NS	NS	NS	NS	NS	NA
	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/9/95	NS	NS	NS	NS	NS	NA
	8/21/95	NS	NS	NS	NS	NS	NA
	10/20/95	NS	NS	NS	NS	NS	NA
	2/7/96	NS	NS	NS	NS	NS	NA
	4/30/96	NS	NS	NS	NS	NS	NA
	8/14/96	NS	NS	NS	NS	NS	NA

Table 2
Groundwater Analytical Data
930 Springtown Boulevard, Livermore, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-7							
	1/2/92	NS	NS	NS	NS	NS	NA
	4/2/92	ND	ND	ND	ND	ND	NA
	7/21/92 - 8/14/96	NS	NS	NS	NS	NS	NA
MW-8							
	1/2/92	12,000	32	980	200	760	NA
	4/2/92	ND	ND	ND	ND	ND	NA
	7/21/92	NS	NS	NS	NS	NS	NA
	10/9/93	NS	NS	NS	NS	NS	NA
	1/11/93	NS	NS	NS	NS	NS	NA
	5/5/93	NS	NS	NS	NS	NS	NA
	8/9/93	NS	NS	NS	NS	NS	NA
	10/14/93	NS	NS	NS	NS	NS	NA
	1/24/94	NS	NS	NS	NS	NS	NA
	5/31/94	NS	NS	NS	NS	NS	NA
	8/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/2/94	NS	NS	NS	NS	NS	NA
	2/20/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/9/95	NS	NS	NS	NS	NS	NA
	8/21/95	<50	<0.5	<0.5	0.67	0.62	<10
	10/20/95	NS	NS	NS	NS	NS	NA
	2/7/96	<50	7.0	<0.5	<0.5	<0.5	NA
	4/30/96	61	9.6	<0.5	<0.5	<0.5	NA
	8/14/96	<50	0.73	<0.5	<0.5	<0.5	<30
NS = Not Sampled							
ND = None Detected							
SP = Separate-phase petroleum hydrocarbons							
TPHg = Total petroleum hydrocarbons as gasoline							
< = Less than the detection limit for the specified method of analysis							

ANALYTICAL REPORT

B C Analytical

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

LOG NO: G96-08-393

Received: 15 AUG 96
 Mailed SEP 3 1996

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

Purchase Order: 94-1446346+4370

Requisition: 618571050
 Project: FKEP1012L

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	08-393-1	08-393-2	08-393-3
DATE SAMPLED	14 AUG 96	14 AUG 96	14 AUG 96
SAMPLE DESCRIPTION	MW-A	MW-B	MW-1
AQUEOUS			
GRO (8015M.TX)			
Date Analyzed	08/20/96	08/20/96	08/20/96
Dilution Factor, Times	1	10	1
Benzene, ug/L	65	<5	<0.5
Toluene, ug/L	75	260	<0.5
Ethylbenzene, ug/L	170	120	<0.5
Methyl-tert-butylether, ug/L	57	<300	<30
Total Xylene Isomers, ug/L	460	320	<0.5
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	3000	9000	<50
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	51.7	566	55.9
a,a,a-Trifluorotoluene Th., ug/L	50.0	500	50.0

Karen Petryna
 930 Springtown Blvd., Livermore
 Alameda County



LOG NO: G96-08-393

Received: 15 AUG 96

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

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP1012L

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	08-393-4	08-393-5	08-393-6
DATE SAMPLED	14 AUG 96	14 AUG 96	14 AUG 96
SAMPLE DESCRIPTION	MW-2	MW-3	MW-4
AQUEOUS			

GRO (8015M.TX)			
Date Analyzed	08/20/96	08/21/96	08/20/96
Dilution Factor, Times	1	1	1
Benzene, ug/L	<0.5	<0.5	<0.5
Toluene, ug/L	<0.5	0.60	<0.5
Ethylbenzene, ug/L	<0.5	<0.5	<0.5
Methyl-tert-butylether, ug/L	<30	<30	<30
Total Xylene Isomers, ug/L	<0.5	<0.5	<0.5
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<50	<50	<50
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	56.6	51.6	56.9
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0

LOG NO: G96-08-393

Received: 15 AUG 96

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

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP1012L

REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	08-393-7	08-393-8
DATE SAMPLED	14 AUG 96	14 AUG 96
SAMPLE DESCRIPTION	MW-5	MW-8
AQUEOUS		
GRO (8015M.TX)		
Date Analyzed	08/21/96	08/21/96
Dilution Factor, Times	1	1
Benzene, ug/L	130	0.73
Toluene, ug/L	22	<0.5
Ethylbenzene, ug/L	170	<0.5
Methyl-tert-butylether, ug/L	71	<30
Total Xylene Isomers, ug/L	47	<0.5
Carbon Range, .	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	3500	<50
Surrogates **		
a,a,a-Trifluorotoluene Rep., ug/L	45.0	50.6
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0

LOG NO: G96-08-393

Received: 15 AUG 96

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

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP1012L

REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	08-393-9
DATE SAMPLED	14 AUG 96
SAMPLE DESCRIPTION	EB
AQUEOUS	
GRO (8015M.TX)	
Date Analyzed	08/21/96
Dilution Factor, Times	1
Benzene, ug/L	<0.5
Toluene, ug/L	<0.5
Ethylbenzene, ug/L	<0.5
Methyl-tert-butylether, ug/L	<30
Total Xylene Isomers, ug/L	<0.5
Carbon Range, .	C6-C12
TPH (Gasoline Range), ug/L	<50
Surrogates **	
a,a,a-Trifluorotoluene Rep., ug/L	51.3
a,a,a-Trifluorotoluene Th., ug/L	50.0

LOG NO: G96-08-393

Received: 15 AUG 96

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

Purchase Order: 94-1446346+4370

Requisition: 618571050
Project: FKEP1012L

REPORT OF ANALYTICAL RESULTS

Page 5


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.

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AQUEOUS SAMPLES

METHOD BLANK ----- LAB CONTROL ----- MATRIX QC -----

UNITS	RESULT	RDL	FLG	LCS			LCS D			MS			MSD				
				%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q		
ug/L	0	0.5	-	145	-	76	155	-	159	Q	159	Q	70	153	0	25	-
ug/L	0	0.5	-	96	-	72	121	-	95	-	97	-	69	119	2	25	-
ug/L	0	0.5	-	94	-	72	115	-	93	-	93	-	68	116	1	25	-
ug/L	0	30	-	133	-	62	159	-	136	-	139	-	80	176	2	25	-
ug/L	0	0.5	-	89	-	68	115	-	89	-	90	-	61	118	1	25	-
ug/L	0	50	-	104	-	85	120	-	106	-	106	-	78	124	0	25	-
Percent	115	-	-	123	Q	85	118	-	126	Q	128	Q	85	118	-	-	-

Batch: GAS*964122 Method: 8015M.TX - Modified 8015

UNITS	RESULT	RDL	FLG	LCS			LCS D			MS			MSD				
				%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q		
ug/L	0	0.5	-	151	-	76	155	-	136	-	143	-	70	153	5	25	-
ug/L	0	0.5	-	98	-	72	121	-	94	-	97	-	69	119	3	25	-
ug/L	0	0.5	-	94	-	72	115	-	92	-	94	-	68	116	2	25	-
ug/L	0	30	-	94	-	62	159	-	128	-	133	-	80	176	4	25	-
ug/L	0	0.5	-	91	-	68	115	-	87	-	90	-	61	118	3	25	-
ug/L	0	50	-	105	-	85	120	-	96	-	95	-	78	124	2	25	-
Percent	117	-	-	131	Q	85	118	-	109	-	115	-	85	118	-	-	-

Batch: GAS*964123 Method: 8015M.TX - Modified 8015

UNITS	RESULT	RDL	FLG	LCS			LCS D			MS			MSD				
				%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q		
ug/L	0	0.5	-	101	-	76	155	-	124	-	125	-	70	153	1	25	-
ug/L	0	0.5	-	91	-	72	121	-	91	-	93	-	69	119	1	25	-
ug/L	0	0.5	-	92	-	72	115	-	94	-	94	-	68	116	1	25	-
ug/L	0	30	-	105	-	62	159	-	-	-	-	-	-	-	-	-	-
ug/L	0	0.5	-	88	-	68	115	-	91	-	92	-	61	118	1	25	-
ug/L	0	50	-	95	-	85	120	-	97	-	98	-	78	124	1	25	-
Percent	103	-	-	104	-	85	118	-	102	-	105	-	85	118	-	-	-

Batch: GAS*966124 Method: 8015M.TX - Modified 8015

UNITS	RESULT	RDL	FLG	LCS			LCS D			MS			MSD				
				%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q	%REC	FLG	Q		
ug/L	0	0.5	-	101	-	76	155	-	124	-	125	-	70	153	1	25	-
ug/L	0	0.5	-	91	-	72	121	-	91	-	93	-	69	119	1	25	-
ug/L	0	0.5	-	92	-	72	115	-	94	-	94	-	68	116	1	25	-
ug/L	0	30	-	105	-	62	159	-	-	-	-	-	-	-	-	-	-
ug/L	0	0.5	-	88	-	68	115	-	91	-	92	-	61	118	1	25	-
ug/L	0	50	-	95	-	85	120	-	97	-	98	-	78	124	1	25	-
Percent	103	-	-	104	-	85	118	-	102	-	105	-	85	118	-	-	-

[a,a,a-Trifluorotoluene]

ORDER PLACED FOR CLIENT: Texaco Environmental Services 9608393 :
BC ANALYTICAL : GLEN LAB : 09:36:04 27 AUG 1996 - P. 1 :

```
=====
SAMPLES... SAMPLE DESCRIPTION.. DETERM..... DATE..... METHOD..... EQUIP. BATCH.. ID.NO
                                ANALYZED
508393*1 MW-A                GAS.MTBE.TESNC  08.20.96 8015M.TX    536-35 964122 6843
508393*2 MW-B                GAS.MTBE.TESNC  08.20.96 8015M.TX    536-35 964122 6843
508393*3 MW-1                GAS.MTBE.TESNC  08.20.96 8015M.TX    536-35 964122 6843
508393*4 MW-2                GAS.MTBE.TESNC  08.20.96 8015M.TX    536-35 964122 6843
508393*5 MW-3                GAS.MTBE.TESNC  08.21.96 8015M.TX    536-36 966124 6843
508393*6 MW-4                GAS.MTBE.TESNC  08.20.96 8015M.TX    536-35 964123 6843
508393*7 MW-5                GAS.MTBE.TESNC  08.21.96 8015M.TX    536-35 964123 6843
508393*8 MW-8                GAS.MTBE.TESNC  08.21.96 8015M.TX    536-36 966124 6843
508393*9 EB                 GAS.MTBE.TESNC  08.21.96 8015M.TX    536-36 966124 6843
```

**

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

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

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 09:36:34 27 AUG 1996 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
608393*1							
015M.TXa	,a,a-Trifluorotoluene	Re964122	08/20/96	51.7	50.0	103	
608393*2							
015M.TXa	,a,a-Trifluorotoluene	Re964122	08/20/96	56.6	50.0	113	
608393*3							
015M.TXa	,a,a-Trifluorotoluene	Re964122	08/20/96	55.9	50.0	112	
608393*4							
015M.TXa	,a,a-Trifluorotoluene	Re964122	08/20/96	56.6	50.0	113	
608393*5							
015M.TXa	,a,a-Trifluorotoluene	Re966124	08/21/96	51.6	50.0	103	
608393*6							
015M.TXa	,a,a-Trifluorotoluene	Re964123	08/20/96	56.9	50.0	114	
608393*7							
015M.TXa	,a,a-Trifluorotoluene	Re964123	08/21/96	45.0	50.0	90	
608393*8							
015M.TXa	,a,a-Trifluorotoluene	Re966124	08/21/96	50.6	50.0	101	
608393*9							
015M.TXa	,a,a-Trifluorotoluene	Re966124	08/21/96	51.3	50.0	103	

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 09:36:42 27 AUG 1996 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
608363*5*R1							
015M.TXa	a,a,a-Trifluorotoluene	Re964122	08/20/96	57.1	50.0	114	
608363*5*S1							
015M.TXa	a,a,a-Trifluorotoluene	Re964122	08/20/96	62.8	50.0	126	
608363*5*S2							
015M.TXa	a,a,a-Trifluorotoluene	Re964122	08/20/96	63.9	50.0	128	
608363*5*T							
015M.TXa	a,a,a-Trifluorotoluene	Re964122	08/20/96	50.0	50.0	100	
608393*6*R1							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/20/96	56.9	50.0	114	
608393*6*S1							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/21/96	54.5	50.0	109	
608393*6*S2							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/21/96	57.7	50.0	115	
608393*6*T							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/21/96	50.0	50.0	100	
608394*2*R1							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/20/96	49.8	50.0	100	
608394*2*S1							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/20/96	51.2	50.0	102	
608394*2*S2							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/21/96	52.7	50.0	105	
608394*2*T							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/20/96	50.0	50.0	100	
6081194*1*MB							
015M	a,a,a-Trifluorotoluene	Re964122	08/19/96	57.5	50.0	115	
6081231*1*MB							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/20/96	51.3	50.0	103	

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 09:36:43 27 AUG 1996 - P. 2 :

=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
081253*1*MB							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/20/96	58.3	50.0	117	
082146*1*LC							
015M	a,a,a-Trifluorotoluene	Re964122	08/19/96	61.6	50.0	123	
082146*1*LT							
015M	a,a,a-Trifluorotoluene	Re964122	08/19/96	50.0	50.0	100	
082214*1*LC							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/20/96	52.2	50.0	104	
082214*1*LT							
015M.TXa	a,a,a-Trifluorotoluene	Re966124	08/20/96	50.0	50.0	100	
082257*1*LC							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/20/96	65.7	50.0	131	
082257*1*LT							
015M.TXa	a,a,a-Trifluorotoluene	Re964123	08/20/96	50.0	50.0	100	

Chain-of-Custody

Texaco Environmental Services
 108 Cutting Boulevard
 Richmond, California 94804
 Phone: (510) 238-3541
 FAX: (510) 237-7821

Forward Results to the Attention of Rebecca Digeress
 Texaco Project Corordinator Karen Petryna

Site Name: Texaco Loc.# 618571050
 Site Address: 930 Springtown Blvd. Livermore, CA
 Contractor Project Number: 960804-D1
 Contractor Name: Blaine Tech Services, Inc.
 Address: 985 Timothy Dr., San Jose, CA 95133
 Project Contact: _____
 Phone/FAX: (408) 995-5535 / (408) 293-8773

Laboratory: BC Analytical
 Turn Around Time: normal (10 day)
 Samplers (PRINT NAME): Tim Graf
 Sampler Signature: [Signature]
 Date Samples Collected: 8-14-96

ANALYSIS												Comments
TPH gas/BTEX	TPH Diesel	O&G/TRPH (41B.1)	TPH Ex. (CB-C36 +)	VOCs 8240/624	P. Halocarbons B010/60	P. Aromatics 8020/602	Organic Lead	MTCSE				
X								X	-	1		
X								X	-	2		
X								X	-	3		
X								X	-	4		
X								X	-	5		
X								X	-	6		
X								X	-	7		
X								X	-	8		
X								X	-	9		

Sample Number	Lab Sample Number	Date / Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative
MW-A		8-14 / 1010	3		W	HCL
MW-B		8-14 / 1030	3			
MW-1		8-14 / 940	3			
MW-2		8-14 / 950	3			
MW-3		8-14 / 920	3			
MW-4		8-14 / 845	3			
MW-5		8-14 / 1005	3			
MW-8		8-14 / 905	3			
EB		8-14 / 848	3		↓	↓

Relinquished by: (Signature) <u>Tim Graf</u>	Date: <u>8-15-96</u> Time: <u>16:05</u>	Received by: (Signature) <u>Bill Rogers</u>	Date: <u>8-15-96</u> Time: <u>16:05</u>
Relinquished by: (Signature) <u>Bill Rogers</u>	Date: <u>8-15-96</u> Time: <u>6:25</u>	Received by: (Signature) <u>Norma Hatcher</u>	Date: <u>8/15/96</u> Time: <u>6:25</u>
Relinquished by: (Signature) <u>Norma Hatcher</u>	Date: <u>8/16/96</u> Time: <u>5:30</u>	Received by: (Signature) <u>Ken [unclear]</u>	Date: <u>8/17/96</u> Time: <u>10:30</u>
Method of Shipment:		Lab Comments:	

Well Gauging Data

Project Name: 6185-71050
 Project Number: 960814-D1

Date: 8-14-96
 Recorded By: MIKE D

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-A		16.44	2		10.82		
MW-B		21.32	2		8.66		
MW-1		25.58	4		11.18		
MW-2		22.52	4		8.88		
MW-3		24.49	4		10.24		
MW-4		24.82	3		9.84		
MW-5		21.35	2		12.03		
MW-8		24.10	4		15.08		

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 #: <u>960814-D1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>MD</u>	Date: <u>8-14-96</u>
Well I.D.: <u>MW-A</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>16.44</u>	Depth to Water: <u>10.82</u>
Depth to Free Product: <u> </u>	Thickness of Free Product: <u> </u>
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 X Middleburg Electric Submersible Extraction Pump Other: <u> </u>	Sampling Method: S.S. Bailer Teflon Bailer X Extraction Port Other: <u> </u>
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<u>0.9</u>	x	<u>3</u>	=	<u>2.7</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>958</u>	<u>67.4</u>	<u>7.0</u>	<u>800</u>	<u>>200</u>	<u>1</u>	
<u>1001</u>	<u>66.4</u>	<u>7.1</u>	<u>800</u>	<u>>200</u>	<u>2</u>	
<u>1003</u>	<u>66.2</u>	<u>7.0</u>	<u>800</u>	<u>>200</u>	<u>3</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.0</u>
Sampling Time: <u>1010</u>	Sampling Date: <u>8-14-96</u>
Sample I.D.: <u>MW-A</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G</u> <u>BTEX</u> <u>Tph-D</u>	Other: <u>MTBE</u>
Equipment Blank I.D.: <u> </u>	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960814-D1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>MD</u>	Date: <u>8-14-96</u>
Well I.D.: <u>2 1/2" - B</u>	Well Diameter: <input checked="" type="radio"/> 2 3 4 6 8 ___
Total Well Depth: <u>27.32</u>	Depth to Water: <u>8.66</u>
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 Sampling Method: S.S. Bailer
 Teflon Bailer ~~X~~ Teflon Bailer ~~X~~
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

<u>2.0</u>	x	<u>3</u>	=	<u>6.0</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1020	69.4	7.4	1600	172.2	2	ODOR/SHEEN
1023	64.2	7.4	1600	62.3	4	
1026	69.0	7.4	1600	56.4	6	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: <u>6.0</u>
Sampling Time: <u>1030</u>	Sampling Date: <u>8-14-96</u>
Sample I.D.: <u>mw - B</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <input checked="" type="checkbox"/> Tph-G <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> Tph-D Other: <u>MTBE</u>	
Equipment Blank I.D.: _____	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 960814-01	Texaco ID#: 618571050
Sampler: MD/TC	Date: 8-14-96
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 25.54	Depth to Water: 21.18
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 Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

9.3	x	3	=	28.0 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
930	72.0	7.0	1800	>200	9	
931	70.4	7.0	2100	>200	18	
933	69.6	6.9	2100	>200	28.0	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 28.0
Sampling Time: 9:40	Sampling Date: 8-14-96
Sample I.D.: MW-1	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D	Other: MTCE
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: 960814-D1	Texaco ID#: 618571050
Sampler: MD/TG	Date: 8-14-96
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 22.52	Depth to Water: 8.88
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 Sampling Method: S.S. Bailer ✓
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible ✓ Other: _____
 Extraction Pump

Other: _____

<u>9.0</u>	x	<u>3</u>	=	<u>27</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
945	71.0	7.2	2200	7200	9	
946	67.8	7.1	1900	7200	18	
947	67.0	7.0	1700	7200	27	

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: 27
Sampling Time: 950	Sampling Date: 8-14-96
Sample I.D.: MW-2	Laboratory: BC Analytical
Analyzed for: <u>Tph-G</u> <u>BTEX</u> Tph-D	Other: <u>MTBE</u>
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960814-101</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>MD</u>	Date: <u>8-14-96</u>
Well I.D.: <u>mw-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>24.49</u>	Depth to Water: <u>10.24</u>
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 Sampling Method: S.S. Bailer
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

<u>9.3</u>	<u>x</u>	<u>3</u>	<u>=</u>	<u>27.8</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>912</u>	<u>70.4</u>	<u>7.2</u>	<u>1800</u>	<u>100</u>	<u>9</u>	
<u>914</u>	<u>70.4</u>	<u>7.0</u>	<u>1800</u>	<u>124</u>	<u>19</u>	
<u>915</u>	<u>71.2</u>	<u>6.8</u>	<u>1800</u>	<u>128</u>	<u>28</u>	

Did well dewater? Yes No Gallons actually evacuated: 28.0

Sampling Time: 9:20 Sampling Date: 8-14-96

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

Analyzed for: Tph-G BTEX Tph-D Other: MTBE

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

TEXACO WELL MONITORING DATA SHEET

Project #: 960814 - 01	Texaco ID#: 618571050
Sampler: MD/TE	Date: 8-14-96
Well I.D.: MW-4	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 24.82	Depth to Water: 9.84
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 Sampling Method: S.S. Bailer
 Teflon Bailer ✓ Teflon Bailer ✓
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

25 5.6	x	3	=	25 17	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
837	72.6	6.8	1200	>200	25 5.5	
838	69.0	7.0	1200	>200	5 11.25	
840	68.6	7.0	1200	>200	25 17	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 17.0
Sampling Time: 845	Sampling Date: 8-14-96
Sample I.D.: MW-4	Laboratory: BC Analytical
Analyzed for: <u>Tph-G</u> <u>BTEX</u> Tph-D	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample

TEXACO WELL MONITORING DATA SHEET

Project #: <u>960814-D1</u>	Texaco ID#: <u>618571050</u>
Sampler: <u>MD + TMA</u>	Date: <u>8-14-96</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>21.35</u>	Depth to Water: <u>12.03</u>
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 Sampling Method: S.S. Bailer
 Teflon Bailer X Teflon Bailer X
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

<u>1.5</u>	x	<u>3</u>	=	<u>4.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
<u>955</u>	<u>68.0</u>	<u>7.1</u>	<u>1000</u>	<u>> 200</u>	<u>1.5</u>	<u>ODOR</u>
<u>958</u>	<u>68.2</u>	<u>7.0</u>	<u>1200</u>	<u>> 200</u>	<u>3.0</u>	
<u>1000</u>	<u>67.8</u>	<u>7.0</u>	<u>1200</u>	<u>> 200</u>	<u>4.5</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>4.5</u>
Sampling Time: <u>1005</u>	Sampling Date: <u>8-14</u>
Sample I.D.: <u>MW-5</u>	Laboratory: <u>BC Analytical</u>
Analyzed for: <u>Tph-G</u> <u>BTEX</u> <u>Tph-D</u>	Other: <u>MTBB</u>
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 desitnation 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 #: 618571050
 Address: 930 SPRINGTOWN BLVD.
 City, State, ZIP: LIVERMORE, CA

Well I.D.	Gals.	Well I.D.	Gals.
MW-A 1	1		1
MW-B 1	1		1
MW-1 1	1		1
1	1		1
MW-5 1	1		1
MW-8 1	1		1
1	1		1
1	1		1
1	1		1
1	1		1
Total gals.	<u>129</u>	added rinse water	<u>10</u>
Total Gals. Recovered	<u>139</u>		

Job #: 960814-17
 Date: 8-14-96
 Time: 10:50
 Signature: [Signature]

REC'D AT: 1373
 Date: 8-14-96
 Time: 1245
 Signature: [Signature]

**SECOND-QUARTER PROGRESS REPORT
930 SPRINGTOWN
LIVERMORE, CALIFORNIA**

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS

The site, formerly a Texaco service station, is currently occupied by a Seven-Eleven convenience store. Subsurface investigation was initiated in September, 1984 with the installation of two groundwater monitoring wells (MW-A and MW-B). The underground storage tanks were removed in June, 1985. Investigation continued in 1985, 1986, and 1989 to define extent of plume. Monitoring wells MW-1 through MW-3 were installed in June, 1985; MW-4 was installed in September, 1985; and MW-5 and MW-6 were installed in November, 1986. One soil boring and two additional monitoring wells (MW-7 and MW-8) were drilled in December, 1989 to fully define the extent of subsurface hydrocarbons.

Soil vapor extraction was the method selected to remediate hydrocarbon-impacted soils at the site. Vadose-zone hydrocarbons were removed and destroyed using a 100 cfm catalytic oxidizer. The unit was in operation from November 1994 to October 1995. When influent hydrocarbon concentrations indicated the soil was effectively remediated, the system was shut down and removed from the site.

WORK PERFORMED DURING THIS QUARTER

Groundwater monitoring was conducted during the quarter. Results are presented in a separate groundwater monitoring report.

PROPOSED INVESTIGATIONS OR REMEDIATION PLANS

Based on analysis of influent hydrocarbons during soil vapor extraction, soil remediation at the site is judged to be complete. Groundwater will continue to be monitored on a quarterly basis to insure that the dissolved-phase plume is not migrating downgradient, and that biodegradation of hydrocarbons is occurring. It is not anticipated at this time that any further active remediation will be necessary.