Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

January 15, 1996

ENV - STUDIES, SURVEYS & REPORTS
2225 Telegraph Ave., Oakland, California

Mr. Thomas Peacock
Alameda County Hazardous Materials
1131 Harbor Bay Pky
Alameda, CA 94502-6577

Dear Mr. Peacock:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on October 25, 1995, at the site referenced above (see Plate 1, Site Vicinity Map). Based on groundwater level measurements, the areal hydraulic gradient was estimated to be south (see Plate 2, Groundwater Gradient Map). The gradient map has been reviewed by a registered professional. TPHg and benzene concentrations are shown on Plate 3. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively.

The groundwater treatment system on site ran continously throughout the reporting period.

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

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

Best Regards,

Rebecca Digerness
Environmental Assistant

Karen E. Petryna
Engineer
Texaco Environmental Services

RBD:hs
C:\QMR\2225T\QMR.LET

Enclosures

cc: Mr. Richard Hiett
CRWQCB - San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

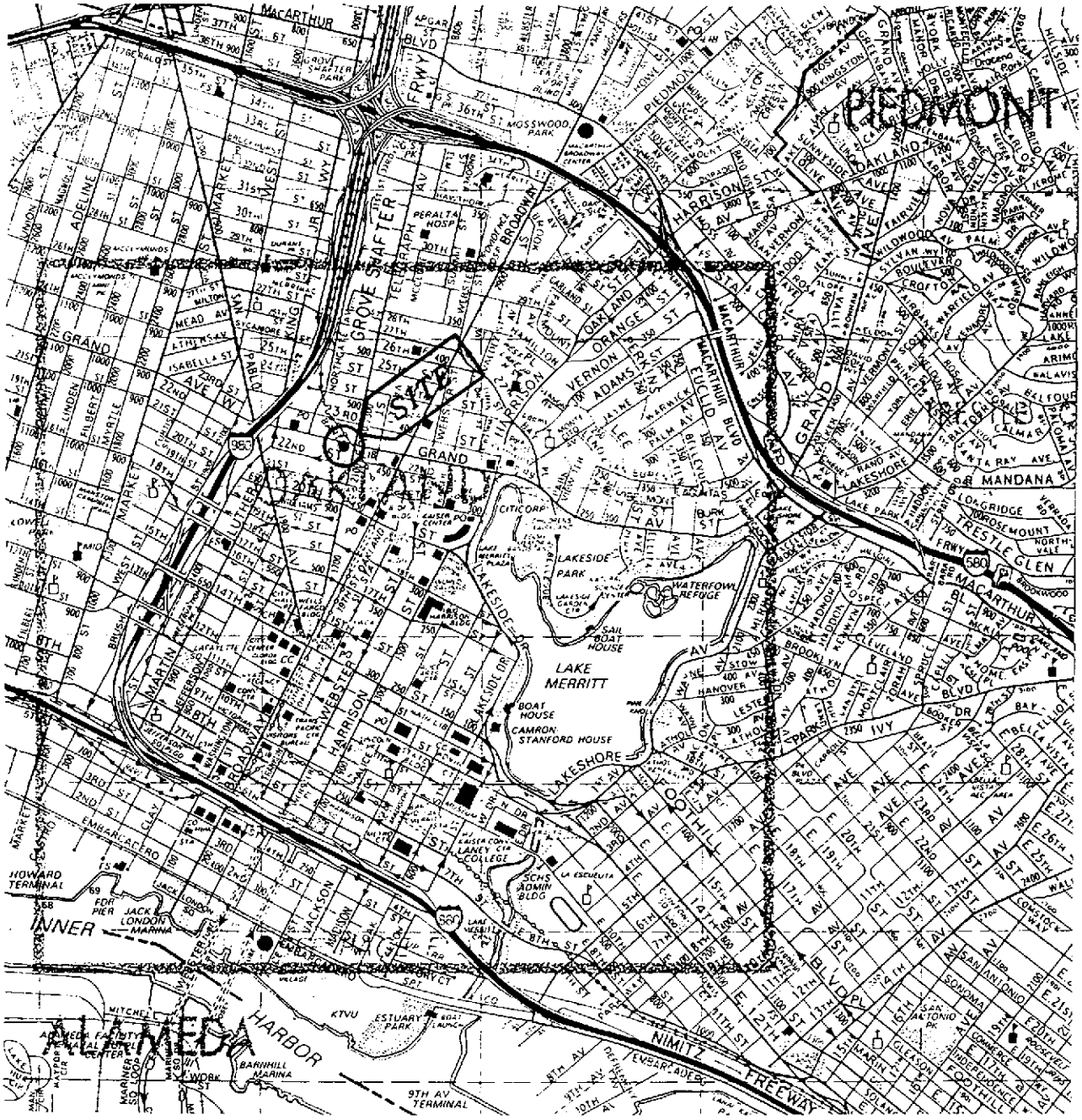
Mr. Michael Faber
Exxon Company, USA
2300 Clayton Road, Suite 1250
Concord, CA 94524-2032

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

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

pr: EG

Groundwater Monitoring and Sampling
Fourth Quarter, 1995
at the
Former Texaco Service Station
2225 Telegraph Avenue
Oakland, CA



SOURCE:
1993 THE THOMAS GUIDE
ALAMEDA COUNTY, PAGE 9 (B3)

N

0 1/4 1/2 3/4 1
MILE
1" = 2200'

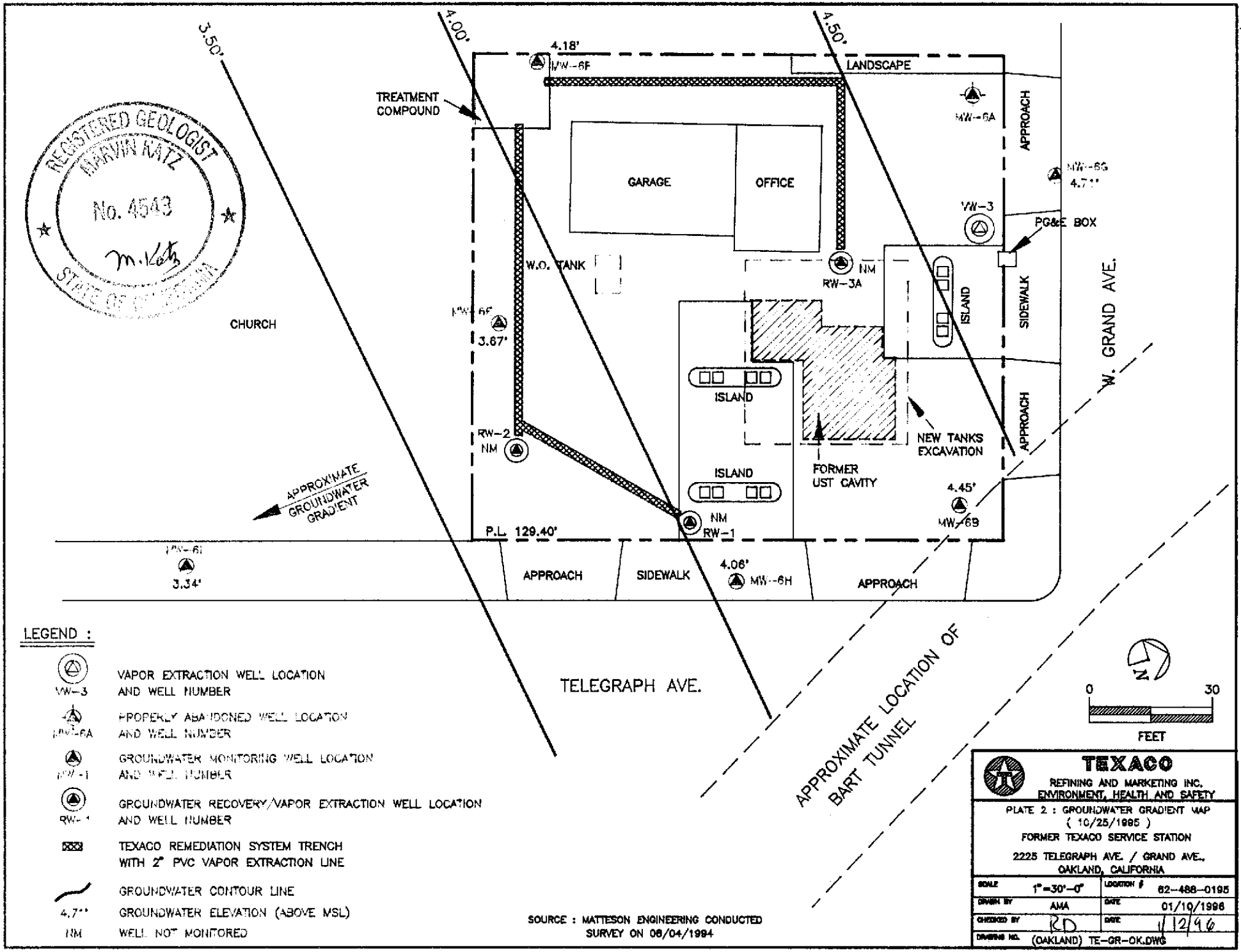
TEXACO
REFINING AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

PLATE 1

SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

2225 TELEGRAPH AVE. / GRAND AVE.,
OAKLAND, CALIFORNIA



REGISTERED GEOLOGIST
MARVIN KATZ
No. 4543
STATE OF CALIFORNIA

LEGEND :

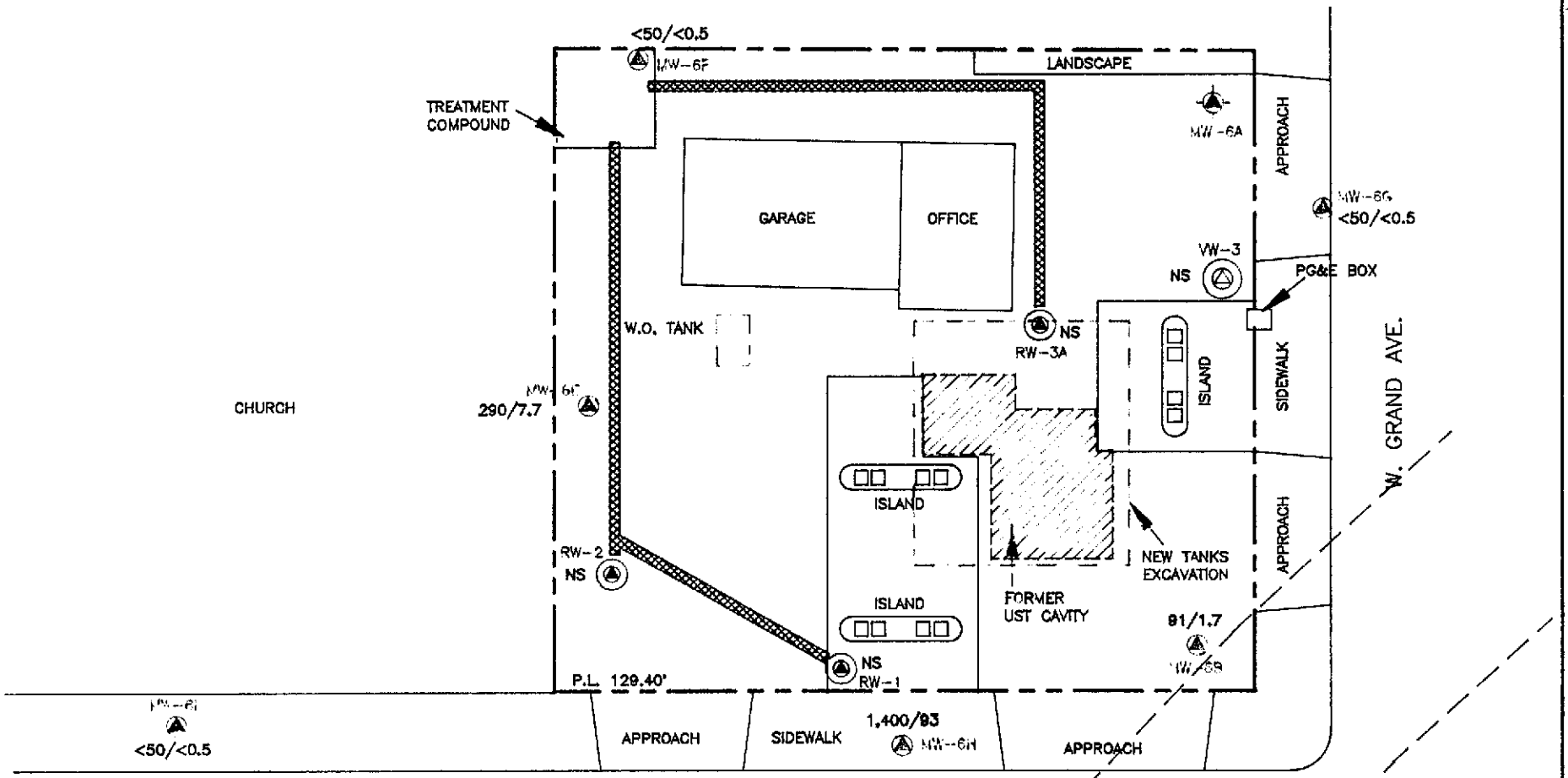
- VW-3 — VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
- MW-6A — PROPERLY ABANDONED WELL LOCATION AND WELL NUMBER
- MW-1 — GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- RW-1 — GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
- TEXACO REMEDIATION SYSTEM TRENCH WITH 2" PVC VAPOR EXTRACTION LINE
- GROUNDWATER CONTOUR LINE
- 4.71' — GROUNDWATER ELEVATION (ABOVE MSL)
- NM — WELL NOT MONITORED

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

TEXACO
REFINING AND MARKETING INC.
ENVIRONMENT, HEALTH AND SAFETY

PLATE 2 : GROUNDWATER GRADIENT MAP
(10/25/1995)
FORMER TEXACO SERVICE STATION
2225 TELEGRAPH AVE. / GRAND AVE.,
OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-486-0195
DRAWN BY	AMA	DATE	01/10/1996
CHECKED BY	RD	DATE	1/12/96
DRAWING NO.	(OAKLAND) TE-GR-OK.DWG		



LEGEND :

VW-3	VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
MW-6A	PROPERLY ABANDONED WELL LOCATION AND WELL NUMBER
MW-1	GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
RW-1	GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
	TEXACO REMEDIATION SYSTEM TRENCH WITH 2" PVC VAPOR EXTRACTION LINE
<50/<0.5	TPHg/BENZENE CONCENTRATION IN GROUNDWATER (ppb)
NS	WELL 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 GROUNDWATER
(10/25/1995)
FORMER TEXACO SERVICE STATION
2225 TELEGRAPH AVE. / GRAND AVE.,
OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-0195
DRAWN BY	AMA	DATE	01/10/1996
CHECKED BY	RD	DATE	1/12/96
DRAWING NO.	(OAKLAND) TE-GR-OK.DWG		

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6A	12/30/91				Well Destroyed
MW-6B	12/15/88	98.81	*		
	2/25/92			11.81	87.00
	3/25/92			11.58	87.23
	6/16/92	15.34	**	12.54	2.80
	9/8/92			12.87	2.47
	11/5/92			12.70	2.64
	12/14/92			12.19	3.15
	1/28/93			11.39	3.95
	2/11/93			11.70	3.64
	3/9/93			11.70	3.64
	4/14/93			11.87	3.47
	5/11/93			12.22	3.12
	6/17/93			12.46	2.88
	7/26/93			12.72	2.58
	8/10/93			12.82	2.52
	9/21/93			13.08	2.26
	10/27/93			13.18	2.16
	11/23/93			13.07	2.27
	12/17/93			NA	NA
	2/16/94			12.07	3.27
	5/31/94			12.42	2.92
	8/30/94	17.48	***	13.02	4.46
	11/11/94			11.72	5.76
	2/27/95			11.84	5.64
	5/30/95			12.09	5.39
	8/30/95			12.76	4.72
	10/25/95			13.03	4.45

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6E	12/15/88	98.99	*		
	2/25/92			13.16	85.83
	3/25/92			12.15	86.84
	6/16/92	15.23	**	13.54	1.69
	9/8/92			14.78	0.45
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/28/93			11.62	3.61
	2/11/93			12.85	2.38
	3/9/93			12.83	2.40
	4/14/93				Not Monitored
	5/11/93			13.59	1.64
	6/17/93			13.74	1.49
	7/26/93			14.01	1.22
	8/10/93			14.13	1.10
	9/21/93			14.20	1.03
	10/27/93			14.34	0.89
	11/23/93			13.97	1.26
	12/17/93			13.08	2.15
	2/16/94			13.34	1.89
	5/31/94			13.82	1.41
	8/30/94	17.63	***	14.32	3.31
	11/11/94			13.92	3.71
	2/27/95			12.96	4.67
	5/30/95			13.20	4.43
	8/30/95			13.85	3.78
	10/25/95			13.96	3.67

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6F	12/15/88	99.91	*		
	2/25/92			12.68	87.23
	3/25/92			11.93	87.98
	6/16/92	16.46	**	14.34	2.12
	9/8/92			14.75	1.71
	11/5/92			14.35	2.11
	12/14/92			12.90	3.56
	1/28/93			11.60	4.86
	2/11/93			12.25	4.21
	3/9/93			12.50	3.96
	4/14/93			12.71	3.75
	5/11/93			13.63	2.83
	6/17/93			14.02	2.44
	7/26/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93			14.80	1.66
	10/27/93			14.85	1.61
	11/23/93			Not Monitored - Inaccessible	
	12/17/93			13.86	2.60
	2/16/94			13.08	3.38
	5/31/94			14.06	2.40
	8/30/94	18.58	***	14.84	3.74
	11/11/94			12.60	5.98
	2/27/95			12.75	5.83
	5/30/95			13.16	5.42
	8/30/95			14.31	4.27
	10/25/95			14.40	4.18

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6G	12/15/88	99.16	*		
	2/25/92			10.32	88.84
	3/25/92			9.93	89.23
	6/16/92	14.71	**	11.88	2.83
	9/8/92			12.20	2.51
	11/5/92			12.02	2.69
	12/14/92			10.95	3.76
	1/28/93			9.56	5.15
	2/11/93			10.04	4.67
	3/9/93			10.10	4.61
	4/14/93			10.43	4.28
	5/11/93			11.05	3.66
	6/17/93			11.49	3.22
	7/26/93			11.98	2.73
	8/10/93			12.17	2.54
	9/21/93			12.42	2.29
	10/27/93			13.47	1.24
	11/23/93			12.48	2.23
	12/17/93			11.19	3.52
	2/16/94			10.62	4.09
	5/31/94			11.40	3.31
	8/30/94	16.82	***	12.32	4.50
	11/11/94			11.06	5.76
	2/27/95			10.32	6.50
	5/30/95			10.77	6.05
	8/30/95			11.92	4.90
	10/25/95			12.11	4.71

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6H	12/15/88	97.93	*		
	2/25/92			12.17	85.76
	3/25/92			11.65	86.28
	6/16/92	14.47	**	12.12	2.35
	9/8/92			12.30	2.17
	11/5/92			12.05	2.42
	12/14/92			11.65	2.82
	1/28/93			11.57	2.90
	2/11/93			12.22	2.25
	3/9/93			12.02	2.45
	4/14/93			12.02	2.45
	5/11/93			12.35	2.12
	6/17/93			12.22	2.25
	7/26/93			12.32	2.15
	8/10/93			12.30	2.17
	9/21/93			12.79	1.68
	10/27/93			13.93	0.54
	11/23/93			12.46	2.01
	12/17/93			12.08	2.39
	5/31/94			12.46	2.01
	8/30/94	16.58	***	12.72	3.86
	11/11/94			11.98	4.60
	2/27/95			11.89	4.69
	5/30/95			12.05	4.53
	8/30/95			12.34	4.24
	10/25/95			12.52	4.06

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-6I	12/15/88	97.60	*		
	2/25/92			12.45	85.15
	3/25/92			12.12	85.48
	6/16/92	14.14	**	12.75	1.39
	9/8/92			12.84	1.30
	11/5/92			12.75	1.39
	12/14/92			12.40	1.74
	1/28/93			12.20	1.94
	2/11/93			12.40	1.74
	3/9/93			12.45	1.69
	4/14/93			12.43	1.71
	5/11/93			12.73	1.41
	6/17/93			12.78	1.36
	7/26/93			12.92	1.22
	8/10/93			12.97	1.17
	9/21/93			13.02	1.12
	10/27/93			13.10	1.04
	11/23/93			13.02	1.12
	12/17/93			12.65	1.49
	2/16/94			12.66	1.48
	5/31/94			12.90	1.24
	8/30/94	16.26	***	13.06	3.20
	11/11/94			15.20	1.06
	2/27/95			12.51	3.75
	5/30/95			12.57	3.69
	8/30/95			12.86	3.40
	10/25/95			12.92	3.34

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
RW-1	10/16/90	97.89	*		
	2/25/92			14.40	83.49
	3/25/92			NA	NA
	6/16/92	14.42	**	12.37	2.05
	9/8/92				Not Monitored
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/18/93				Not Monitored
	2/11/93				Not Monitored
	3/9/93				Not Monitored
	4/14/93				Not Monitored
	5/11/93				Not Monitored
	6/17/93				Not Monitored
	7/26/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93				Not Monitored
	10/27/93				Not Monitored
	11/23/93				Not Monitored
	12/17/93				Not Monitored
	2/16/94				Not Monitored
	5/31/94				Not Monitored
	8/30/94	16.79	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
	10/25/95				Not Monitored

Table 1
Groundwater Elevation Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
RW-2 (formerly MW-6D)	10/16/90	98.11	*		
	2/25/92			16.27	81.84
	3/25/92				Not Monitored
	6/16/92	14.61	**	12.86	1.75
	9/8/92				Not Monitored
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/28/93				Not Monitored
	2/11/93				Not Monitored
	3/9/93				Not Monitored
	4/14/93				Not Monitored
	5/11/93				Not Monitored
	6/17/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93				Not Monitored
	10/27/93				Not Monitored
	11/23/93				Not Monitored
	12/17/93				Not Monitored
	2/16/94				Not Monitored
	5/31/94				Not Monitored
	8/30/94	17.02	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
	10/25/95				Not Monitored
RW-3 (formerly MW-6C)	8/30/94	18.04	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
	10/25/95				Not Monitored
* = Based on assigned benchmark with elevation arbitrarily set at 100 feet.					
** = Elevation relative to mean sea level (MSL).					
*** = Wells resurveyed 8/4/94, Benchmark is City of Oakland #37J;					
Elevation 17.68 @ intersection of Telegraph & 23rd St. jobsite.					
NA = Not Available					

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-6A		Well Destroyed				
MW-6B	3/25/92	190	31	8.6	84	8.6
	6/16/92	1,700	44	1.7	7.2	230
	9/8/92	2,900	35	8.3	110	330
	11/5/92	1,400	29	<0.5	75	190
	2/11/93	210	1.2	<0.5	2.8	4.3
	5/11/93	570	54	2.4	37	36
	8/10/93	1,300	48	2.4	28	44
	10/27/93	1,300	23	1.7	25	250
	2/16/94	300	16	<0.5	3.5	2.4
	5/31/94	690	21	3.9	11	36
	8/30/94	260	4	0.62	0.82	4
	11/11/94	300	60	2	1.2	2.4
	2/27/95	180	28	2.6	0.65	1.6
	5/30/95	200	23	3.6	0.88	2.3
	8/30/95	120	3.8	3.6	0.61	0.69
	10/25/95	**91**	**1.7**	**<0.5**	**<0.5**	**0.84**
MW-6E	3/25/92	830	41	1	3.8	16
	6/16/92	3,400	300	23	68	510
	9/8/92	480	27	<0.5	3.6	21
	11/5/92	Not Sampled				
	2/11/93	270	15	<0.5	<0.5	8.7
	5/11/93	<50	2.3	<0.5	1.4	3.2
	8/10/93	1,700	130	2.7	23	140
	10/27/93	100	6	<0.5	<0.5	<0.5
	2/16/94	640	45	<0.5	12	15
	5/31/94	52	1.5	0.97	<0.5	<0.5
	8/30/94	920	22	0.98	5.2	33
	11/11/94	910	13	2.4	13	2.5
	2/27/95	<50	1.9	1.3	<0.5	0.83
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5
	8/30/95	1,500	91	2.3	56	59
	10/25/95	**290**	**7.7**	**<0.5**	**5.7**	**1.7**

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-6F	3/25/92	ND	ND	<0.5	<0.5	<0.5
	6/16/92	ND	ND	<0.5	<0.5	<0.5
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5
	8/10/93	Not Sampled				
	10/27/93	<50	<0.5	<0.5	<0.5	<0.5
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5
	11/11/94	<50	<0.5	0.54	<0.5	<0.5
	2/27/95	<50	6.2	3.0	0.82	3.5
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
MW-6G	3/25/92	ND	ND	<0.5	<0.5	<0.5
	6/16/92	ND	ND	<0.5	<0.5	<0.5
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5
	8/10/93	<50	<0.5	<0.5	<0.5	<0.5
	10/27/93	<50	<0.5	<0.5	<0.5	<0.5
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5
	11/11/94	58	0.58	1.6	<0.5	1.6
	2/27/95	<50	0.86	0.99	<0.5	0.51
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-6H	3/25/92	920	170	52	25	54
	6/16/92	460	31	11	6.8	16
	9/8/92	780	69	23	17	18
	11/5/92	3,400	500	260	85	160
	2/11/93	2,500	410	170	28	130
	5/11/93	4,200	490	270	80	210
	8/10/93	650	83	22	14	29
	10/27/93	1,600	130	90	29	130
	2/16/94	<50	<0.5	<0.5	<0.5	2.9
	5/31/94	1,800	370	220	65	210
	8/30/94	1,900	130	90	19	86
	11/11/94	13,000	1,700	1,400	260	1,800
	2/27/95	320	450	120	28	79
	5/30/95	2,300	960	260	64	200
	8/30/95	2,100	590	35	24	74
	10/25/95	**1,400**	**93**	**23**	**11**	**80**
MW-6I	3/25/92	ND	ND	<0.5	<0.5	<0.5
	6/16/92	ND	ND	<0.5	<0.5	<0.5
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5
	8/10/93	<50	<0.5	<0.5	<0.5	<0.5
	10/27/93	<50	<0.5	<0.5	<0.5	1.1
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5
	11/11/94	53	0.62	1.8	<0.5	2.0
	2/27/95	<50	<0.5	<0.5	<0.5	<0.5
	5/30/95	69	2.8	0.96	1.1	4.3
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5
	10/25/95	<50	<0.5	<0.5	<0.5	<0.5
RW-1	6/16/92	6,200	620	1,400	240	1,400
	9/8/92-10/25/95	Not Sampled				

Table 2
Groundwater Analytical Data
2225 Telegraph Avenue, Oakland, CA

Well Number	Date Sampled	TPH as gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
RW-2	3/25/92	NA	NA	NA	NA	NA
	6/16/92	28,000	2,900	1,000	120	2,700
	9/8/92-10/25/95	Not Sampled				
RW-3	8/30/94-10/25/95	Not Sampled				
ppb = parts per billion						
TPHg = Total Petroleum Hydrocarbons as gasoline.						
< = Less than the detection limit for the specified method of analysis.						
NA = Not Analyzed						
ND = Not detectable at or above method detection limit.						

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G95-10-543

Received: 26 OCT 95

Mailed: NOV 2 1995

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

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

CC: Mr. Timothy Ross

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 .
RDL			1	50	0.5	0.5	0.5	10	0.5	
1*T1992MW6 BNP	10/25/95	10/30/95	1	<50	1.8	<0.5	<0.5	<10	<0.5	C6-C12
2*T1992MW6 BPP	10/25/95	10/30/95	1	91	1.7	<0.5	<0.5	<10	0.84	C6-C12
3*T1992MW6 ENP	10/25/95	10/30/95	1	350	6.2	<0.5	5.0	<10	1.9	C6-C12
4*T1992MW6 EPP	10/25/95	10/30/95	1	290	7.7	<0.5	5.7	<10	1.7	C6-C12
5*T1992MW6 FNP	10/25/95	10/30/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
6*T1992MW6 FPP	10/25/95	10/30/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
7*T1992MW6 GNP	10/25/95	10/30/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
8*T1992MW6 GPP	10/25/95	10/30/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
9*T1992MW6 HNP	10/25/95	10/31/95	1	1300	110	28	14	<10	93	C6-C12
10*T1992MW6 HNPD	10/25/95	10/31/95	1	1300	100	26	12	<10	87	C6-C12
11*T1992MW6 HPP	10/25/95	10/31/95	1	1400	93	23	11	<10	80	C6-C12
12*T1992MW6 HPPD	10/25/95	10/31/95	1	1400	90	23	11	<10	79	C6-C12
13*T1992MW6 INP	10/25/95	10/31/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
14*T1992MW6 IPP	10/25/95	10/31/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G95-10-543

Received: 26 OCT 95

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

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

CC: Mr. Timothy Ross

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 .
RDL			1	50	0.5	0.5	0.5	10	0.5	
15*TB	10/25/95	10/30/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Jane Freemyer, Program Manager

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 9510543 :
: BC ANALYTICAL : GLEN LAB : 11:45:48 02 NOV 1995 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9510543*1	T1992MW6 BNP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*2	T1992MW6 BPP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*3	T1992MW6 ENP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*4	T1992MW6 EPP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*5	T1992MW6 FNP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*6	T1992MW6 FPP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*7	T1992MW6 GNP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*8	T1992MW6 GPP	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	8501
9510543*9	T1992MW6 HNP	GAS.BTX.TESNC	10.31.95	8015M.TX	536-23	955144	8501
9510543*10	T1992MW6 HNPD	GAS.BTX.TESNC	10.31.95	8015M.TX	536-23	955144	8501
9510543*11	T1992MW6 HPP	GAS.BTX.TESNC	10.31.95	8015M.TX	536-23	955144	8501
9510543*12	T1992MW6 HPPD	GAS.BTX.TESNC	10.31.95	8015M.TX	536-23	955144	8501
9510543*13	T1992MW6 INP	GAS.BTX.TESNC	10.31.95	8015M.TX	536-23	955144	8501
9510543*14	T1992MW6 IPP	GAS.BTX.TESNC	10.31.95	8015M.TX	536-23	955144	8501
9510543*15	TB	GAS.BTX.TESNC	10.30.95	8015M.TX	536-23	955143	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 G9510543

DATE REPORTED : 11/02/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER		DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. BTEX/TPH	C5103967*1						
Date Analyzed		10.30.95	955143	10/30/95	10/30/95	Date	N/A
Benzene		10.30.95	955143	14.6	15.2	ug/L	96
Toluene		10.30.95	955143	93.4	97.4	ug/L	96
Ethylbenzene		10.30.95	955143	20.2	20.4	ug/L	99
Total Xylene Isomers		10.30.95	955143	122	119	ug/L	103
TPH (Gasoline Range)		10.30.95	955143	1140	1100	ug/L	104
a,a,a-Trifluorotoluene	Rep.	10.30.95	955143	62.6	50.0	ug/L	125 Q
a,a,a-Trifluorotoluene	Th.	10.30.95	955143	50.0	50.0	ug/L	100
2. TPH	C511001*1						
Date Analyzed		10.31.95	955144	10/31/95	10/31/95	Date	N/A
Benzene		10.31.95	955144	13.3	15.2	ug/L	88
Toluene		10.31.95	955144	86.4	97.4	ug/L	89
Ethylbenzene		10.31.95	955144	18.4	20.4	ug/L	90
Total Xylene Isomers		10.31.95	955144	112	119	ug/L	94
TPH (Gasoline Range)		10.31.95	955144	1160	1100	ug/L	105
a,a,a-Trifluorotoluene	Rep.	10.31.95	955144	59.5	50.0	ug/L	119
a,a,a-Trifluorotoluene	Th.	10.31.95	955144	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9510543

DATE REPORTED : 11/02/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. BTEX/TPH	9510401*4						
Date Analyzed		10.30.95	955143	10/30/95	10/30/95	Date	N/A
Benzene		10.30.95	955143	13.4	13.6	ug/L	1
Toluene		10.30.95	955143	84.5	86.2	ug/L	2
Ethylbenzene		10.30.95	955143	18.0	18.3	ug/L	2
Total Xylene Isomers		10.30.95	955143	108	111	ug/L	3
TPH (Gasoline Range)		10.30.95	955143	1130	1140	ug/L	1
a,a,a-Trifluorotoluene	Rep.	10.30.95	955143	57.4	59.3	ug/L	3
a,a,a-Trifluorotoluene	Th.	10.30.95	955143	50.0	50.0	ug/L	0
2. TPH	9510543*13						
Date Analyzed		10.31.95	955144	10/31/95	10/31/95	Date	N/A
Benzene		10.31.95	955144	13.8	14.0	ug/L	1
Toluene		10.31.95	955144	90.7	92.7	ug/L	2
Ethylbenzene		10.31.95	955144	19.3	19.5	ug/L	1
Total Xylene Isomers		10.31.95	955144	117	117	ug/L	0
TPH (Gasoline Range)		10.31.95	955144	1090	1110	ug/L	2
a,a,a-Trifluorotoluene	Rep.	10.31.95	955144	60.9	61.6	ug/L	1
a,a,a-Trifluorotoluene	Th.	10.31.95	955144	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9510543

DATE REPORTED : 11/02/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT	
1. TPH	9510401*4							
Benzene		10.30.95	955143	88	89	15.2	ug/L	
Toluene		10.30.95	955143	87	89	97.4	ug/L	
Ethylbenzene		10.30.95	955143	88	90	20.4	ug/L	
Total Xylene Isomers		10.30.95	955143	91	93	119	ug/L	
TPH (Gasoline Range)		10.30.95	955143	103	104	1100	ug/L	
a,a,a-Trifluorotoluene Rep.		10.30.95	955143	115	119 Q	50.0	ug/L	Q
a,a,a-Trifluorotoluene Th.		10.30.95	955143	100	100	50.0	ug/L	
2. TPH	9510543*13							
Benzene		10.31.95	955144	91	92	15.2	ug/L	
Toluene		10.31.95	955144	93	95	97.4	ug/L	
Ethylbenzene		10.31.95	955144	95	96	20.4	ug/L	
Total Xylene Isomers		10.31.95	955144	98	98	119	ug/L	
TPH (Gasoline Range)		10.31.95	955144	99	101	1100	ug/L	
a,a,a-Trifluorotoluene Rep.		10.31.95	955144	122	123	50.0	ug/L	
a,a,a-Trifluorotoluene Th.		10.31.95	955144	100	100	50.0	ug/L	

BC ANALYTICAL

ORDER QC REPORT FOR G9510543

DATE REPORTED : 11/02/95

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

PARAMETER		DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. BTEX/TPH	B5102236*1						
Date Analyzed		10.30.95	955143	10/30/95	NA	Date	8015M
Benzene		10.30.95	955143	0	0.3	ug/L	8015M
Toluene		10.30.95	955143	0	0.3	ug/L	8015M
Ethylbenzene		10.30.95	955143	0	0.3	ug/L	8015M
Total Xylene Isomers		10.30.95	955143	0	0.6	ug/L	8015M
TPH (Gasoline Range)		10.30.95	955143	0	100	ug/L	8015M
a,a,a-Trifluorotoluene	Rep.	10.30.95	955143	54.0	0.5	ug/L	8015M
a,a,a-Trifluorotoluene	Th.	10.30.95	955143	50.0	NA	ug/L	8015M
2. TPH	B511001*1						
Date Analyzed		10.31.95	955144	10/31/95	NA	Date	8015M.TX
Benzene		10.31.95	955144	0	0.5	ug/L	8015M.TX
Toluene		10.31.95	955144	0	0.5	ug/L	8015M.TX
Ethylbenzene		10.31.95	955144	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether		10.31.95	955144	0	NA	ug/L	8015M.TX
Total Xylene Isomers		10.31.95	955144	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)		10.31.95	955144	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Rep.	10.31.95	955144	48.6	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Th.	10.31.95	955144	50.0	NA	ug/L	8015M.TX

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 11:46:58 02 NOV 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9510543*1							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	53.0	50.0	106	
9510543*2							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	52.6	50.0	105	
9510543*3							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	52.4	50.0	105	
9510543*4							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	53.6	50.0	107	
9510543*5							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	52.1	50.0	104	
9510543*6							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	53.1	50.0	106	
9510543*7							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	53.1	50.0	106	
9510543*8							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	53.6	50.0	107	
9510543*9							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	55.9	50.0	112	
9510543*10							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	58.6	50.0	117	
9510543*11							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	57.2	50.0	114	
9510543*12							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	56.1	50.0	112	
9510543*13							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	54.4	50.0	109	
9510543*14							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	55.1	50.0	110	

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 11:46:59 02 NOV 1995 - P. 2 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
0510543*15							
8015M.TX	a,a,a-Trifluorotoluene	Re955143	10/30/95	53.2	50.0	106	

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 16:51:59 02 NOV 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9510401*4*R1							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	52.5	50.0	105	
9510401*4*S1							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	57.4	50.0	115	
9510401*4*S2							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	59.3	50.0	119	Q
9510401*4*T							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	50.0	50.0	100	
9510541*4*R1							
8015M.TX	a,a,a-Trifluorotoluene	Re955145	11/01/95	54.7	50.0	109	
9510541*4*S1							
8015M.TX	a,a,a-Trifluorotoluene	Re955145	11/01/95	62.7	50.0	125	
9510541*4*S2							
8015M.TX	a,a,a-Trifluorotoluene	Re955145	11/01/95	59.5	50.0	119	
9510541*4*T							
8015M.TX	a,a,a-Trifluorotoluene	Re955145	11/01/95	50.0	50.0	100	
9510543*13*R1							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	54.4	50.0	109	
9510543*13*S1							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	60.9	50.0	122	
9510543*13*S2							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	61.6	50.0	123	
9510543*13*T							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	50.0	50.0	100	
35102236*1*MB							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	54.0	50.0	108	
3511001*1*MB							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	48.6	50.0	97	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
5103967*1*LC							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	62.6	50.0	125	Q
5103967*1*LT							
8015M	a,a,a-Trifluorotoluene	Re955143	10/30/95	50.0	50.0	100	
5111001*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	59.5	50.0	119	
5111001*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	Re955144	10/31/95	50.0	50.0	100	

G9510543 1 of 2 KK 11/2/95

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# 624880195
Site Address: 2225 Telegraph Ave, Oakland, CA
Contractor Project Number: 951025-G1
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)~~ 7 DAY TAT
Samplers (PRINT NAME): JIMMY MOTTL
Sampler Signature:
Date Samples Collected: 10-25-95

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX / MTBE	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (CB-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead			Comments
T1992MW6	BNP	10-25 1305	3	VOA	W	HCl	X										-1
T1992MW6	BPP	1315					X										-2 624980195
T1992MW6	ENP	1215					X										-3 Alameda
T1992MW6	EPP	1230					X										-4 KEP
T1992MW6	FNP	1100					X										-5 FKEP1015L
T1992MW6	FPP	1110					X										-6 cc: Tim
T1992MW6	GNP	1145					X										-7 Ross
T1992MW6	GPP	1205					X										-8
T1992MW6	HNP	1320					X										-9
T1992MW6	HNPD	1320					X										-10
T1992MW6	HPP	1340					X										-11
T1992MW6	HPPD	1340					X										-12

7 DAY TAT
WSPA # T1992
cooler temp: 5 oc
sample cond: good

Relinquished by: (Signature)		Date: 10/26/95	Time: 1045
Relinquished by: (Signature)	Bill Ryan	Date: 10-26-95	Time: 300
Relinquished by: (Signature)	Kimberly Ging	Date: 10/26/95	Time: 6:00
Method of Shipment:			

Received by: (Signature)	Bill Ryan	Date: 10-26-95	Time: 1045
Received by: (Signature)	Kimberly Ging	Date: 10/26/95	Time: 3:00
Received by: (Signature)		Date:	Time:
Lab Comments:			

6950543 2 of 2 ke 10/26/95

Chain-of-Custody

Page 2 of 2

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 Corordinator: Karen Petryna

Site Name: Texaco Loc# 624880195
Site Address: 2225 Telegraph Ave. Oakland, CA
Contractor Project Number: 951025-G1
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 48 hour~~ 7 DAY TAT
Samplers (PRINT NAME): JIM MOHR
Sampler Signature:
Date Samples Collected: 10-25-95

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	ANALYSIS: TPH gas/BTEX/MTBE	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (CB-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead			Comments
T1992MW6	INP	10-25 1240	3	VOA	W	HCl	X										-13
T1992MW6	IPP	1300	3				X										-14
TB			2				X										-15

Relinquished by: (Signature) — Date: 10/26/95 — Time: 1045
Relinquished by: Bill Lyons (Signature) — Date: 10-26-95 — Time: 3:00
Relinquished by: Kimberly Ems (Signature) — Date: 10/26/95 — Time: 6:00
Method of Shipment:

Received by: Bill Lyons (Signature) — Date: 10-26-95 — Time: 1045
Received by: Kimberly Ems (Signature) — Date: 10/26/95 — Time: 3:00
Received by: (Signature) — Date: — Time:
Lab Comments:

Well Gauging Data

Project Name: 95/025-61
Project Number: 624880195

Date: 10-25
Recorded By: GRANT

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW6 B		18.04	2		13.03		
MW6 E		19.25	4		13.96		
MW6 F		19.50	4		14.40		
MW6 G		19.63	4		12.11		
MW6 A		19.47	4		12.52		
MW6 I		19.36	4		12.92		
		T-1992				—	

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

Well Gauging Data

Project Name: TEX#624880195
Project Number: 950830-L1

Date: 8-30-95
Recorded By: LAD B OLIVER

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-6B		18.08	2.0		12.76		
MW-6E		19.42	4.0		13.85		
MW-6F		19.68	4.0		14.31		
MW-6G		19.58	4.0		11.92		
MW-6H		19.76	4.0		12.34		
MW-6I		19.28	4.0		12.86		

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

Groundwater Sampling Form

Project Name TEX#624880195 Well No. MW-6B

Project Number 450830-L1 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By LAD BOWER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) 18.08

Depth to Water (WL, ft. below TOC) 12.76

Depth to free phase hydrocarbons (FP, ft. below TOC)

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[X] Bailer - Type TEFLON

[ ] Pump - Type

[ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 15.

[ ] Near Bottom Depth (ft)

[ ] Other

Pumping Rate 0.5 gpm

PURGE VOLUME CALCULATION

5.3 (Water Column Length) x .17 (Multiplier) x 3 (No. Vols) = 2.7 gals CALCULATED PURGE VOLUME

MULTIPLIER (Casing Dia.[inches] = Gallons/linear ft)

2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 6 = 2.6

3. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
1205 / 1.	7.4	1200.	68.6	>200.	ODOR
1208 / 2.	7.0	1200.	68.8	>200	
1212 / 3.	7.2	1200.	69.7	>200	
/					
/					
/					
/					
/					

Comments during well purge

Well Pumped dry: YES (NO)

Purge water storage/disposal [ ] Drummed onsite [ ] Other TRUCK #14

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 / 1215

Bailer - Type [X] TEFLON Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6B	40 ml	TPH G	HCL	BCA	
		BTEX			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Groundwater Sampling Form

Project Name TEXACO 74880195 | Well No. MW-6E
Project Number 950830-L1 | Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By LAD BAUER | Sampled by LAD | Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) 19.42
Depth to Water (WL, ft. below TOC) 13.85
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type
[X] Pump - Type BTS MIDDLEBURG
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 18.
[ ] Other
Pumping Rate 1. gpm

PURGE VOLUME CALCULATION

5.6 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 11.0 gals CALCULATED PURGE VOLUME

MULTIPLIER (Casing Dia.[inches] = Gallons/linear ft)
2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

11.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / [X] deg F	Turbidity (NTU)	Color/Odor
1115 / 4.	7.2	710.	63.0		57.	
1118 / 7.	7.0	670.	63.0		15	
1121 / 11	7.2	650	62.6		16.	
/						
/						
/						
/						
/						

Comments during well purge
Well Pumped dry: YES (NO)
Purge water storage/disposal [ ] Drummed onsite [X] Other TRUCK #1

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 1125
Bailer - Type [X] SS
Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6E	40ml	TPH + BTEX	HCL	BLA	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

C + L

Groundwater Sampling Form

Project Name TEX# 624880195 | Well No. MW-6F
Project Number 950830-LJ | Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By LAD B OLIVER | Sampled by LAD | Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) 19.68
Depth to Water (WL, ft. below TOC) 14.31
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type
[X] Pump - Type BTS MIDDLEBURG
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 18.0
[ ] Other
Pumping Rate 1. gpm

PURGE VOLUME CALCULATION

5.37 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 10.6 gals CALCULATED PURGE VOLUME

11. gals ACTUAL PURGE VOLUME

MULTIPLIER (Casing Dia.[inches] = Gallons/linear ft)
2 = 0.17 | 3 = 0.35 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / [X] deg F	Turbidity (NTU)	Color/Odor
1015 / 4.	6.8	1100.	63.0		27.	
1019 / 8.	6.9	1100.	62.8		19.	
1022 / 11.	7.0	990.	63.0		17.	
/						
/						
/						
/						
/						

Comments during well purge
Well Pumped dry: YES (NO)
Purge water storage/disposal [ ] Drummed onsite [X] Other TRUCK #14

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 / 1030
Bailer - Type [X] SS
Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6F	40ml	TPHG	HCL	BCA	
		BTEX			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Groundwater Sampling Form

Project Name TEX# 624880195 Well No. MW-6G

Project Number 950830-L1 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By LAD B OLVER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) 19.58

Depth to Water (WL, ft. below TOC) 11.92

Depth to free phase hydrocarbons (FP, ft. below TOC)

Number of well volumes to be purged

[ ] 3 [ ] 10 [ ] Other

PURGE METHOD

[X] Bailer - Type TEFLON

[ ] Pump - Type

[ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 14.

[ ] Near Bottom Depth (ft)

[ ] Other

Pumping Rate 0.5 gpm

PURGE VOLUME CALCULATION

7.7 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 15. gals CALCULATED PURGE VOLUME

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft.)

2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

15. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [X] deg F	Turbidity (NTU)	Color/Odor
1050 / 5	7.2	1100	66.8	<200	
1056 / 10	7.1	1100.	66.0	<200	
1103 / 15	7.0	1100	66.6	<200	
/					
/					
/					
/					
/					

Comments during well purge

Well Pumped dry: YES (NO) Purge water storage/disposal [ ] Drummed onsite [ ] Other TRUCKING

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 1110

Bailer - Type [ ] TEFLON Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6G	40ml	TPHG	HCL	BLA	
		BTEX			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	EBG 1040
Transfer	AFTER
Other:	MW-6F

Groundwater Sampling Form

Project Name: TEX# 62488195 | Well No.: MW-6H
Project Number: 950830-C1 | Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: CAD & OLIVER | Sampled by: CAD | Date: 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 19.76
Depth to Water (WL, ft. below TOC): 12.34
Depth to free phase hydrocarbons (FP, ft. below TOC):
Number of well volumes to be purged
[ ] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type
[X] Pump - Type: BTS MIDDLEBURG
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft): 18.
[ ] Other
Pumping Rate: 1< gpm

PURGE VOLUME CALCULATION

7.4 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 14.7 gals CALCULATED PURGE VOLUME

MULTIPLIER (Casing Dia.[inches] = Gallons/linear ft.)
2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

15. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type: MYRON-C

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	[X] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
1220 / 5	7.6	1200.	72.4		78.	
1225 / 10	7.7	1200.	71.0		40.	STRONG
1230 / 15	7.7	1200.	69.6		24.	ODOR
/						
/						
/						
/						
/						

Comments during well purge
Well Pumped dry: YES (NO)
Purge water storage/disposal: [ ] Drummed onsite [X] Other TRUCK #14

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 8-30-95 1235
Bailer - Type [ ] SS.
Sample port [ ]
Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type:

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp	[ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6H	40ml	TPH G	HCL	BCA	
		BTEX			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

C

Groundwater Sampling Form

Project Name TEX#624880195 Well No. MW-6 I

Project Number 95030-11 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By LAD & OLIVER Sampled by LAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [X] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) 19.28

Depth to Water (WL, ft. below TOC) 12.86

Depth to free phase hydrocarbons (FP, ft. below TOC)

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[X] Bailer - Type TEFLON

[ ] Pump - Type

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 15

[ ] Other

Pumping Rate 0.5 gpm

PURGE VOLUME CALCULATION

6.4 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 12.7 gals CALCULATED PURGE VOLUME

MULTIPLIER (Casing Dia. [inches] = Gallons/linear ft)

2 = 0.17 | 3 = 0.38 | 4 = 0.66 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

13. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [X] deg F	Turbidity (NTU)	Color/Odor
1140 / 5.	7.3	800.	64.8	43.	
1148 / 9.	7.2	860.	64.4	157.	
1156 / 13.	7.2	860.	64.8	>200.	
/					
/					
/					
/					
/					

Comments during well purge

Well Pumped dry: YES NO Purge water storage/disposal [ ] Drummed onsite [X] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 / 1200

Bailer - Type [X] TEFLON Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date/Time/% Recharge	pH	Cond. (uomhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6 I	40ml	TPHG	HCl	BCA	
		BTEX			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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 #: 0298801/95
Address: 2225 TELEGRAPH
City, State, ZIP: OAKLAND ~~OAKTOWN~~

Well I.D.	Gals.	Well I.D.	Gals.
	/		/
	/		/
	/		/
MW6 B	/		/
	/		/
	/		/
	/		/
I	/ 67		/
	/		/
	/		/

Total gals. 67
Total Gals. Recovered 77

added rinse water 10

Job #: 951025-G1
Date 10-25
Time 1345
Signature:

REC'D AT: BTS
Date: 10-25
Time: 1815
Signature:

QUARTERLY SUMMARY REPORT
Former Texaco/Current Exxon Service Station
2225 Telegraph Avenue, Oakland, California
Alameda County
Third Quarter, 1995

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS

A preliminary subsurface investigation and a sensitive receptor survey were conducted in May, 1988. Nine shallow monitoring wells (MW-6A through MW-6I) were installed on site and seven soil borings were drilled near the pump islands and tanks. Two vapor wells were installed in the tank pit backfill, and an additional vapor extraction well (VE-3) was installed on site. Recovery well RW-1 was installed into soil boring B-3. Two of the on-site monitoring wells (MW-6 and MW-6D) were converted to groundwater recovery wells (RW-3 and RW-2, respectively) when the groundwater treatment system was installed at the site in 1990. The underground storage tanks, lines, and dispensers were replaced in late 1991. RW-3 was destroyed in 1991 and replaced by RW-3A in 1992. MW-6A was destroyed in 1992 due to damage.

WORK PERFORMED DURING THIS QUARTER

Quarterly groundwater monitoring and sampling was performed. Operation and maintenance of the groundwater treatment system was conducted. Subcontractors were selected to begin Phase II Extraction System installation scheduled for Fourth Quarter, 1995.

CHARACTERIZATION STATUS

The extent of petroleum hydrocarbons in soil and groundwater has not been delineated.

REMEDIATION STATUS

A groundwater treatment system is in operation at the site which extracts groundwater from two recovery wells using air displacement pumps and three liquid phase carbon canisters to treat the groundwater prior to discharge. A Baker furnace will be installed next quarter to compliment the groundwater extraction system and utilize the vapor extraction well that has been installed.

WORK TO BE PERFORMED NEXT QUARTER

Continue quarterly monitoring and sampling to record fluctuations in groundwater elevation and hydrocarbon concentrations and continue operation and maintenance of the groundwater treatment system. Begin installation of the Baker Furnace.

COMPANY CONTACT: Karen Petryna (510) 236-9139

U:\WPWIN\QSR\2225T.QSR
W:\QSR_RAO\2225T.QSR