Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

95 AUG 11 PM 2:13

SFID 1039

August 2, 1995

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

Mr. Thomas Peacock
Alameda County Environmental Health Department
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Peacock:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on May 30, 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

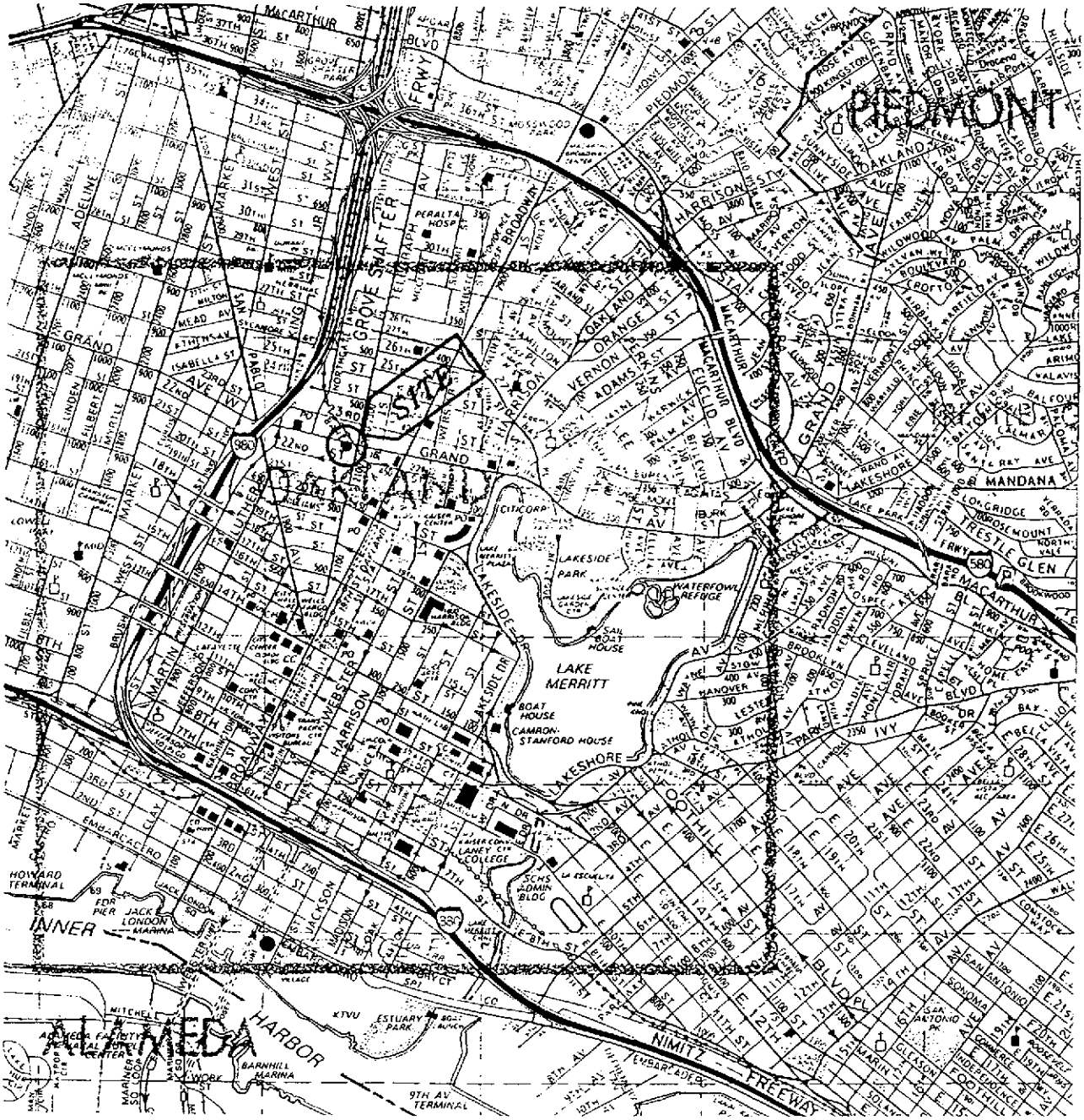
Mr. Michael Faber
Exxon Company, USA
2300 Clayton Road, Suite 1250
Concord, CA 94524-2032

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

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

pr: KEP

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



SOURCE:

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

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0 1/4 1/2 3/4 1

MILE

1" = 2000'

TEXACO

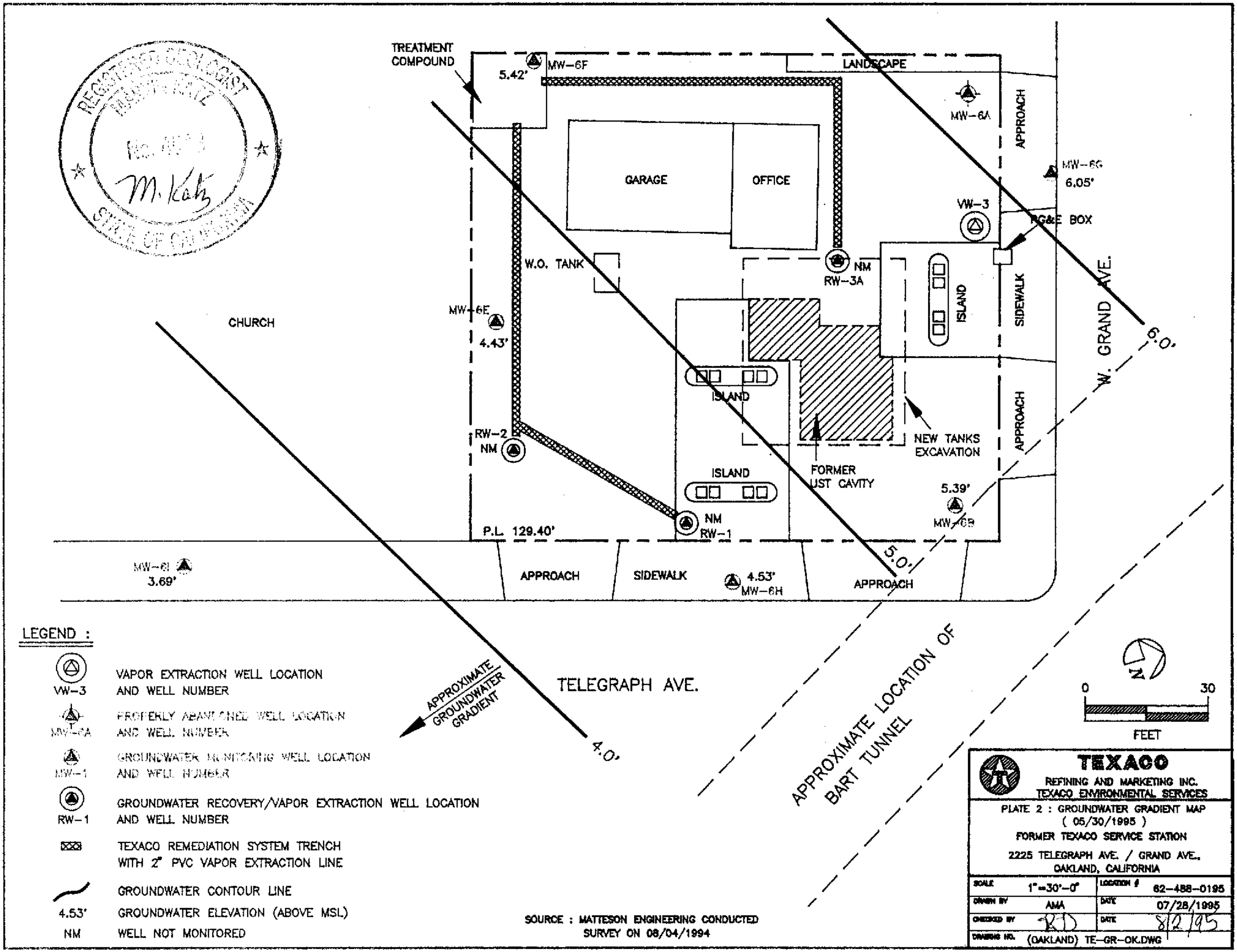
REFINING AND MARKETING,INC.
TEXACO ENVIRONMENTAL SERVICES

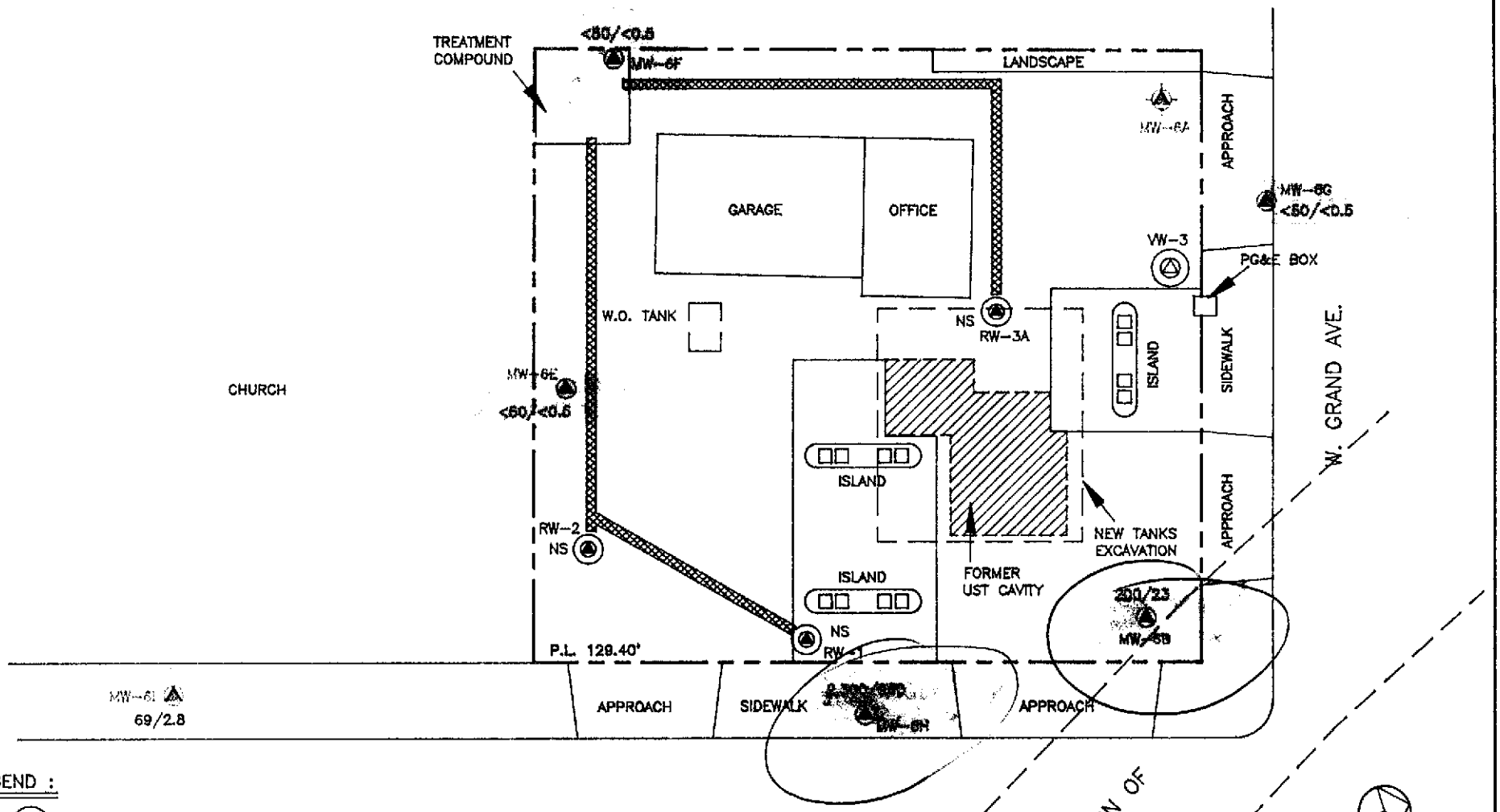
PLATE 1

SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

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


REGISTERED GEOLOGIST
STATE OF CALIFORNIA
TREATMENT COMPOUND
MW-6F
5.42'
LANDSCAPE
MW-6A
APPROACH
MW-6G
6.05'
GARAGE
OFFICE
VW-3
PG&E BOX
W.O. TANK
NM
RW-3A
ISLAND
SIDEWALK
W. GRAND AVE.
6.0'
MW-6E
4.43'
CHURCH
ISLAND
APPROACH
RW-2
NM
NEW TANKS EXCAVATION
ISLAND
FORMER UST CAVITY
5.39'
MW-6B
NM
RW-1
P.L. 129.40'
5.0'
MW-6I
3.69'
APPROACH
SIDEWALK
4.53'
MW-6H
APPROACH
TELEGRAPH AVE.
APPROXIMATE GROUNDWATER GRADIENT
4.0'
APPROXIMATE LOCATION OF BART TUNNEL
N
0
30
FEET
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
4.53' GROUNDWATER ELEVATION (ABOVE MSL)
NM WELL NOT MONITORED
SOURCE : MATTESON ENGINEERING CONDUCTED SURVEY ON 08/04/1994
TEXACO
REFINING AND MARKETING INC.
TEXACO ENVIRONMENTAL SERVICES
PLATE 2 : GROUNDWATER GRADIENT MAP (05/30/1995)
FORMER TEXACO SERVICE STATION
2225 TELEGRAPH AVE. / GRAND AVE., OAKLAND, CALIFORNIA
SCALE 1"=30'-0"
LOCATION # 62-488-0195
DRAWN BY AMA
DATE 07/28/1995
CHECKED BY
DATE 8/2/95
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.
TEXACO ENVIRONMENTAL SERVICES

PLATE 3 : TPHg/BENZENE CONCENTRATION IN GROUNDWATER
(05/30/1995)
FORMER TEXACO SERVICE STATION
2225 TELEGRAPH AVE. / GRAND AVE.,
OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-486-0195
DRAWN BY	AMA	DATE	07/28/1995
CHECKED BY	RD	DATE	8/2/95
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

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

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

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

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

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

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

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
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
* = 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
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

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
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
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

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-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
RW-1	6/16/92	6,200	620	1,400	240	1,400
	9/8/92		Not Sampled			
	11/5/92		Not Sampled			
	2/11/93		Not Sampled			
	2/16/94		Not Sampled			
	5/31/94		Not Sampled			
	8/30/94		Not Sampled			
	11/11/94		Not Sampled			
	2/27/95		Not Sampled			
	5/30/95		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 (formerly MW-6D)	3/25/92	NA	NA	NA	NA	NA
	6/16/92	28,000	2,900	1,000	120	2,700
	9/8/92	Not Sampled				
	11/5/92	Not Sampled				
	5/11/93	Not Sampled				
	8/10/93	Not Sampled				
	10/27/93	Not Sampled				
	2/16/94	Not Sampled				
	5/31/94	Not Sampled				
	8/30/94	Not Sampled				
	11/11/94	Not Sampled				
	2/27/95	Not Sampled				
	5/30/95	Not Sampled				
RW-3 (formerly MW-6C)	8/30/94	Not Sampled				
	11/11/94	Not Sampled				
	2/27/95	Not Sampled				
	5/30/95	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: G95-06-056

Received: 02 JUN 95

Mailed: JUN 14 1995

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

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
RDL			1	50	0.5	0.5	0.5	0.5	
1*MW6-B	05/30/95	06/08/95	1	200	23	3.6	0.88	2.3	C6-C12
2*MW6-E	05/30/95	06/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3*MW6-F	05/30/95	06/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
4*MW6-G	05/30/95	06/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
5*MW6-H	05/30/95	06/08/95	1	2300	960	260	64	200	C6-C12
6*MW6-I	05/30/95	06/08/95	1	69	2.8	0.96	1.1	4.3	C6-C12
7*EB	05/30/95	06/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
8*TB	05/30/95	06/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Jane Freemyer, Program Manager

: ORDER PLACED FOR CLIENT: Texaco Environmental Services 9506056 :
: BC ANALYTICAL : GLEN LAB : 14:41:35 14 JUN 1995 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9506056*1	MW6-B	GAS.BTX.TESNC	06.08.95	8015M.TX	516-20	958131	8658
9506056*2	MW6-E	GAS.BTX.TESNC	06.08.95	8015M.TX	516-20	958131	8658
9506056*3	MW6-F	GAS.BTX.TESNC	06.08.95	8015M.TX	516-20	958131	8658
9506056*4	MW6-G	GAS.BTX.TESNC	06.08.95	8015M.TX	516-24	957214	8658
9506056*5	MW6-H	GAS.BTX.TESNC	06.08.95	8015M.TX	516-20	958131	8658
9506056*6	MW6-I	GAS.BTX.TESNC	06.08.95	8015M.TX	516-20	958131	8658
9506056*7	EB	GAS.BTX.TESNC	06.08.95	8015M.TX	516-20	958131	8658
9506056*8	TB	GAS.BTX.TESNC	06.08.95	8015M.TX	516-24	957213	8658

***

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 G9506056

DATE REPORTED : 06/14/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH (8015M/8020)	C5061091*1					
Date Analyzed	06.07.95	958131	06/07/95	06/07/95	Date	N/A
Benzene	06.07.95	958131	21.7	20.0	ug/L	109
Toluene	06.07.95	958131	20.1	20.0	ug/L	101
Ethylbenzene	06.07.95	958131	20.5	20.0	ug/L	103
Total Xylene Isomers	06.07.95	958131	62.1	60.0	ug/L	104
TPH (Gasoline Range)	06.07.95	958131	1090	1000	ug/L	109
2. TPH (8015M/8020)	C5061092*1					
Date Analyzed	06.08.95	958131	06/08/95	06/08/95	Date	N/A
Benzene	06.08.95	958131	22.7	20.0	ug/L	114
Toluene	06.08.95	958131	20.8	20.0	ug/L	104
Ethylbenzene	06.08.95	958131	21.4	20.0	ug/L	107
Total Xylene Isomers	06.08.95	958131	64.4	60.0	ug/L	107
TPH (Gasoline Range)	06.08.95	958131	1190	1000	ug/L	119
3. TPH (8015M/8020)	C5061081*1					
Date Analyzed	06.08.95	957214	06/08/95	06/08/95	Date	N/A
Benzene	06.08.95	957214	18.0	20.0	ug/L	90
Toluene	06.08.95	957214	19.2	20.0	ug/L	96
Ethylbenzene	06.08.95	957214	18.3	20.0	ug/L	92
Total Xylene Isomers	06.08.95	957214	61.2	60.0	ug/L	102
TPH (Gasoline Range)	06.08.95	957214	1060	1000	ug/L	106
4. TPH (8015M/8020)	C5061082*1					
Date Analyzed	06.08.95	957214	06/08/95	06/08/95	Date	N/A
Benzene	06.08.95	957214	19.9	20.0	ug/L	100
Toluene	06.08.95	957214	21.2	20.0	ug/L	106
Ethylbenzene	06.08.95	957214	20.3	20.0	ug/L	102
Total Xylene Isomers	06.08.95	957214	66.8	60.0	ug/L	111
TPH (Gasoline Range)	06.08.95	957214	977	1000	ug/L	98
5. TPH (8015M/8020)	C506612*1					
Date Analyzed	06.05.95	957213	06/05/95	06/05/95	Date	N/A
Benzene	06.05.95	957213	19.9	20.0	ug/L	100
Toluene	06.05.95	957213	21.4	20.0	ug/L	107
Ethylbenzene	06.05.95	957213	19.9	20.0	ug/L	100
Total Xylene Isomers	06.05.95	957213	65.9	60.0	ug/L	110
TPH (Gasoline Range)	06.05.95	957213	1000	1000	ug/L	100
6. TPH (8015M/8020)	C506754*1					
Date Analyzed	06.05.95	957213	06/05/95	06/05/95	Date	N/A
Benzene	06.05.95	957213	18.5	20.0	ug/L	93
Toluene	06.05.95	957213	19.6	20.0	ug/L	98
Ethylbenzene	06.05.95	957213	18.6	20.0	ug/L	93
Total Xylene Isomers	06.05.95	957213	60.4	60.0	ug/L	101
TPH (Gasoline Range)	06.05.95	957213	1020	1000	ug/L	102
7. TPH (8015M/8020)	C5061366*1					
Date Analyzed	06.07.95	957213	06/07/95	06/07/95	Date	N/A
Benzene	06.07.95	957213	19.4	20.0	ug/L	97

BC ANALYTICAL

ORDER QC REPORT FOR G9506056

DATE REPORTED : 06/14/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
Toluene	06.07.95	957213	20.6	20.0	ug/L	103
Ethylbenzene	06.07.95	957213	19.6	20.0	ug/L	98
Total Xylene Isomers	06.07.95	957213	65.1	60.0	ug/L	109
TPH (Gasoline Range)	06.07.95	957213	1090	1000	ug/L	109

BC ANALYTICAL

ORDER QC REPORT FOR G9506056

DATE REPORTED : 06/14/95

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. TPH (8015M/8020)							
Date Analyzed		06.07.95	958131	06/07/95	06/08/95	Date	N/A
Benzene		06.07.95	958131	21.7	22.7	ug/L	5
Toluene		06.07.95	958131	20.1	20.8	ug/L	3
Ethylbenzene		06.07.95	958131	20.5	21.4	ug/L	4
Total Xylene Isomers		06.07.95	958131	62.1	64.4	ug/L	4
TPH (Gasoline Range)		06.07.95	958131	1090	1190	ug/L	9
2. TPH (8015M/8020)							
Date Analyzed		06.08.95	957214	06/08/95	06/08/95	Date	N/A
Benzene		06.08.95	957214	18.0	19.9	ug/L	10
Toluene		06.08.95	957214	19.2	21.2	ug/L	10
Ethylbenzene		06.08.95	957214	18.3	20.3	ug/L	10
Total Xylene Isomers		06.08.95	957214	61.2	66.8	ug/L	9
TPH (Gasoline Range)		06.08.95	957214	1060	977	ug/L	8
3. TPH (8015M/8020)							
Date Analyzed		06.05.95	957213	06/05/95	06/05/95	Date	N/A
Benzene		06.05.95	957213	19.9	18.5	ug/L	7
Toluene		06.05.95	957213	21.4	19.6	ug/L	9
Ethylbenzene		06.05.95	957213	19.9	18.6	ug/L	7
Total Xylene Isomers		06.05.95	957213	65.9	60.4	ug/L	9
TPH (Gasoline Range)		06.05.95	957213	1000	1020	ug/L	2

BC ANALYTICAL

ORDER QC REPORT FOR G9506056

DATE REPORTED : 06/14/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH (8015M/8020)	9506056*3						
Benzene		06.08.95	958131	107	124	20.0	ug/L
Toluene		06.08.95	958131	98	116	20.0	ug/L
Ethylbenzene		06.08.95	958131	101	114	20.0	ug/L
Total Xylene Isomers		06.08.95	958131	102	115	60.0	ug/L
TPH (Gasoline Range)		06.08.95	958131	124	135	1000	ug/L
2. TPH (8015M/8020)	9506057*6						
Benzene		06.08.95	957214	101	95	20.0	ug/L
Toluene		06.08.95	957214	103	100	20.5	ug/L
Ethylbenzene		06.08.95	957214	101	97	20.0	ug/L
Total Xylene Isomers		06.08.95	957214	109	106	60.0	ug/L
TPH (Gasoline Range)		06.08.95	957214	105	104	1000	ug/L
3. TPH (8015M/8020)	9506054*11						
Benzene		06.06.95	957213	104	98	20.0	ug/L
Toluene		06.06.95	957213	111	102	20.0	ug/L
Ethylbenzene		06.06.95	957213	102	97	20.0	ug/L
Total Xylene Isomers		06.06.95	957213	114	106	60.0	ug/L
TPH (Gasoline Range)		06.06.95	957213	107	96	1000	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9506056

DATE REPORTED : 06/14/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH (8015M/8020)	9506056*3						
Date Analyzed		06.09.95	958131	06/09/95	06/09/95	Date	N/A
Benzene		06.09.95	958131	21.3	24.7	ug/L	15
Toluene		06.09.95	958131	19.6	23.2	ug/L	17
Ethylbenzene		06.09.95	958131	20.2	22.8	ug/L	12
Total Xylene Isomers		06.09.95	958131	60.9	68.9	ug/L	12
TPH (Gasoline Range)		06.09.95	958131	1240	1350	ug/L	8
2. TPH (8015M/8020)	9506057*6						
Date Analyzed		06.09.95	957214	06/09/95	06/09/95	Date	N/A
Benzene		06.09.95	957214	20.2	19.0	ug/L	6
Toluene		06.09.95	957214	21.0	20.5	ug/L	2
Ethylbenzene		06.09.95	957214	20.2	19.4	ug/L	4
Total Xylene Isomers		06.09.95	957214	65.3	63.8	ug/L	2
TPH (Gasoline Range)		06.09.95	957214	1050	1040	ug/L	1
3. TPH (8015M/8020)	9506054*11						
Date Analyzed		06.06.95	957213	06/06/95	06/06/95	Date	N/A
Benzene		06.06.95	957213	20.8	19.6	ug/L	6
Toluene		06.06.95	957213	22.1	20.4	ug/L	8
Ethylbenzene		06.06.95	957213	20.4	19.3	ug/L	6
Total Xylene Isomers		06.06.95	957213	68.1	63.7	ug/L	7
TPH (Gasoline Range)		06.06.95	957213	1070	956	ug/L	11

BC ANALYTICAL

ORDER QC REPORT FOR G9506056

DATE REPORTED : 06/14/95

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

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH (8015M/8020)	B506569*1					
Date Analyzed	06.07.95	958131	06/07/95	NA	Date	8015M.TX
Benzene	06.07.95	958131	0.080	0.5	ug/L	8015M.TX
Toluene	06.07.95	958131	0.35	0.5	ug/L	8015M.TX
Ethylbenzene	06.07.95	958131	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	06.07.95	958131		NA	ug/L	8015M.TX
Total Xylene Isomers	06.07.95	958131	0.11	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	06.07.95	958131	3.9	50	ug/L	8015M.TX
2. TPH (8015M/8020)	B506562*1					
Date Analyzed	06.07.95	957214	06/07/95	NA	Date	8015M.TX
Benzene	06.07.95	957214	0.22	0.5	ug/L	8015M.TX
Toluene	06.07.95	957214	0.20	0.5	ug/L	8015M.TX
Ethylbenzene	06.07.95	957214	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	06.07.95	957214		NA	ug/L	8015M.TX
Total Xylene Isomers	06.07.95	957214	0.16	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	06.07.95	957214	3.8	50	ug/L	8015M.TX
3. TPH (8015M/8020)	B506327*1					
Date Analyzed	06.05.95	957213	06/05/95	NA	Date	8015M.TX
Benzene	06.05.95	957213	0	0.5	ug/L	8015M.TX
Toluene	06.05.95	957213	0	0.5	ug/L	8015M.TX
Ethylbenzene	06.05.95	957213	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	06.05.95	957213	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	06.05.95	957213	0	50	ug/L	8015M.TX
4. TPH (8015M/8020)	B506564*1					
Date Analyzed	06.07.95	957213	06/07/95	NA	Date	8015M.TX
Benzene	06.07.95	957213	0.14	0.5	ug/L	8015M.TX
Toluene	06.07.95	957213	0.20	0.5	ug/L	8015M.TX
Ethylbenzene	06.07.95	957213	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether	06.07.95	957213		NA	ug/L	8015M.TX
Total Xylene Isomers	06.07.95	957213	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	06.07.95	957213	3.7	50	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 14:41:09 14 JUN 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9506056*1							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	47.6	50.0	95	
9506056*2							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	46.2	50.0	92	
9506056*3							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	47.8	50.0	96	
9506056*4							
8015M.TX	a,a,a-Trifluorotoluene	957214	06/08/95	51.3	50.0	103	
9506056*5							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	49.6	50.0	99	
9506056*6							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	46.7	50.0	93	
9506056*7							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	46.8	50.0	94	
9506056*8							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/08/95	54.4	50.0	109	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 14:41:11 14 JUN 1995 - P. 1 :

METHOD ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9506054*11*R1						
8015M.TXa,a,a-Trifluorotoluene	957213	06/06/95	53.2	50.0	106	
9506054*11*S1						
8015M.TXa,a,a-Trifluorotoluene	957213	06/06/95	52.0	50.0	104	
9506054*11*S2						
8015M.TXa,a,a-Trifluorotoluene	957213	06/06/95	52.0	50.0	104	
9506054*11*T						
8015M.TXa,a,a-Trifluorotoluene	957213	06/06/95	50.0	50.0	100	
9506056*3*R1						
8015M.TXa,a,a-Trifluorotoluene	958131	06/08/95	47.8	50.0	96	
9506056*3*S1						
8015M.TXa,a,a-Trifluorotoluene	958131	06/09/95	45.5	50.0	91	
9506056*3*S2						
8015M.TXa,a,a-Trifluorotoluene	958131	06/09/95	46.8	50.0	94	
9506056*3*T						
8015M.TXa,a,a-Trifluorotoluene	958131	06/09/95	50.0	50.0	100	
9506057*6*R1						
8015M.TXa,a,a-Trifluorotoluene	957214	06/08/95	52.7	50.0	105	
9506057*6*S1						
8015M.TXa,a,a-Trifluorotoluene	957214	06/09/95	52.0	50.0	104	
9506057*6*S2						
8015M.TXa,a,a-Trifluorotoluene	957214	06/09/95	51.4	50.0	103	
9506057*6*T						
8015M.TXa,a,a-Trifluorotoluene	957214	06/09/95	50.0	50.0	100	
B506327*1*MB						
8015M.TXa,a,a-Trifluorotoluene	957213	06/05/95	50.2	50.0	100	
B506562*1*MB						
8015M.TXa,a,a-Trifluorotoluene	957214	06/07/95	54.4	50.0	109	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
3506564*1*MB							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/07/95	53.7	50.0	107	
3506569*1*MB							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/07/95	46.8	50.0	94	
C5061081*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	957214	06/08/95	50.5	50.0	101	
C5061081*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	957214	06/08/95	50.0	50.0	100	
C5061082*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	957214	06/08/95	52.5	50.0	105	
C5061082*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	957214	06/08/95	50.0	50.0	100	
C5061091*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/07/95	46.3	50.0	93	
C5061091*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/07/95	50.0	50.0	100	
C5061092*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	46.0	50.0	92	
C5061092*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	958131	06/08/95	50.0	50.0	100	
C5061366*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/07/95	52.5	50.0	105	
C5061366*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/07/95	50.0	50.0	100	
C506612*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/05/95	50.9	50.0	102	
C506612*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/05/95	50.0	50.0	100	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
:506754*1*LC							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/05/95	48.6	50.0	97	
:506754*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	957213	06/05/95	50.0	50.0	100	

G950050

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: 960530-E2
Contractor Name: Blaine Tech Services, Inc.
Address: 985 Timothy Dr., San Jose, CA 95133
Project Contact: Don Weltz
Phone/FAX: (408) 995-5535 / (408) 293-8773

Laboratory: B C Analytical
Turn Around Time: normal (10 day)
Samplers (PRINT NAME): KENT BROWN
Sampler Signature:
Date Samples Collected: 5/30/95

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX	TPH Diesel	O&G/TRPH (418.1)	TPH Ex. (C8-C36+)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead		Comments
MW6-B		5/30/95 1537	3	VOA	W	HCl	X									-1
MW6-E		1400	3		W		X									-2
MW6-F		1120	3		W		X									-3
MW6-G		1320	3		W		X									-4
MW6-H		1430	3		W		V									-5
MW6-I		1300	3		W		X									-6
EB		1230	3		W		X									-7
T.B.		↓	2	↓	W	↓	X									-8

624880195
alameda
KEP
FKEP1015L

ANALYSIS

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Kent Brown	6/4/95	325	Bill Lyons	6-2-95	1:25
Bill Lyons	6-2-95	3 30	Janice Winter	6/2/95	3:30

Method of Shipment:

Lab Comments:

P:\GWMP\FORMS\TEX-COC.XLS

Well Gauging Data

Project Name: TEX#. 62488 0195
Project Number: 950530

Date: 5-30-95
Recorded By: KEB

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW6B		18.13	2		12.09		
MW6E		19.63	4		13.20		
MW6F		19.68	4		13.16		
MW6G		19.57	4		10.77		
MW6H		19.70	4		12.05		
MW6I		19.61	4		12.57		

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 #624880193 Well No. MW6F
Project Number 950530-EZ Well Type [x] Monitor [ ] Extraction [ ] Other
Recorded By KEB Sampled by KEB Date 5/30/95

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) 13.16
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
[x] 3 [ ] 10 [ ] Other 4.3 CASE VOL.

PURGE METHOD

[ ] Bailer - Type
[x] Pump - Type Elec. Sub
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[x] Near Bottom Depth (ft) 1
[ ] Other
Pumping Rate 6 gpm

PURGE VOLUME CALCULATION

6.52 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 12.9 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 ME/HF-Turb.

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1207 /						
1209 / 5.0	6.1	640	56.0		3.93	CLEAR
1211 / 10.0	6.4	700	58.6		1.93	
1214 / 15.0	6.4	700	58.5		15.0	
/						
/						
/						
/						
/						

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5/30/95 1220
Bailer - Type [x] S.S.
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
MW6F	FIA 40ml	FAL-6 BTEX	HCl	BC	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
After Rinsate	EB at 1230
Filter Transfer	
Other:	

Groundwater Sampling Form

Project Name #624080195 | Well No. MW6 G
Project Number 950530-EL | Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By LEB | Sampled by LEB | Date 5/30/95

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [X] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) 19.57
Depth to Water (WL, ft. below TOC) 10.77
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
[X] 3 [ ] 10 [ ] Other 5.8 CASE

PURGE METHOD

[ ] Bailer - Type
[X] Pump - Type elec. Sub
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 16.0
[ ] Other
Pumping Rate 6 gpm

PURGE VOLUME CALCULATION

8.80 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 17.4 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

16.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MICRO

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
1308					
1309 / 6	7.1	740	68.0	27.1	
1314 / 12	7.0	660	64.9	4.5	
1314 / 16	4.0	660	60.6	5.3	
/					
/					
/					
/					
/					

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5/30/95 1320
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
MW6 G	VOA 40ml	TPH-G BTEX	HCl	BC	

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 62480195 Well No. MW6H

Project Number 960530-EV Well Type ☑ Monitor ☐ Extraction ☐ Other

Recorded By KEB Sampled by KEB Date 5/30/95

WELL PURGING

PURGE VOLUME

Well casing diameter

☐ 2-inch ☒ 4-inch ☐ Other

Well Total Depth (TD, ft. below TOC) 19.70

Depth to Water (WL, ft. below TOC) 12.05

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

Number of well volumes to be purged

☒ 3 ☐ 10 ☐ Other 5.04 case

PURGE METHOD

☐ Bailer - Type

☑ Pump - Type Grundfos 5S6

☐ Other

PUMP INTAKE

☐ Near top Depth (ft)

☑ Near Bottom Depth (ft) 16.

☐ Other

Pumping Rate 6 gpm

PURGE VOLUME CALCULATION

7.65 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 15.1 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

16.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT Meter Type HORIBA U-10 / YSI 6820

Time/Gallons	pH	Cond. (uomhos/cm)	Temp ☐ deg C ☐ deg F	Turbidity (NTU)	Color/Odor
1414 / 6	6.5	1100	61.0	13.0	clear/odor
1418 / 12	6.6	1100	61.4	16.3	
1423 / 16	6.6	1100	61.6	16.1	
/					
/					
/					
/					
/					

Comments during well purge

Well Pumped dry: YES (NO)

Purge water storage/disposal ☐ Drummed onsite ☐ Other BTS

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 5/30/95 1430

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
MW6H	10A/40ml	TPH-G, BTEX	HCl	BC	

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. MW6I

Project Number 950530 EZ Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By KEB Sampled by KEB Date 5-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter

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

Well Total Depth (TD, ft. below TOC) 19.61

Depth to Water (WL, ft. below TOC) 12.59

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

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other 4.6 case

PURGE METHOD

[ ] Bailer - Type

[X] Pump - Type elec. sub

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 18.

[ ] Other

Pumping Rate 6 gpm

PURGE VOLUME CALCULATION

7.02 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 13.9 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 HORIBA U-10 / HF Tech

Time/Gallons			pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1642								
1645	1	5	6.60	900	60.6		165.	clear
1647	1	10	6.60	800	~~60.5~~	60.6	56.4	
1650	1	15	6.60	790		61.60	54.2	
	/							
	/							
	/							
	/							
	/							

Comments during well purge

Well Pumped dry: YES (NO)

Purge water storage/disposal [ ] Drummed onsite [ ] Other BFS

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5/30/95 1300

Bailer - Type [X] S.S.

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
MW6I	VOA 40 ML	TPHG, BTEX	HCL	BCA	

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 #664880/95
Project Number 95B330-E2
Recorded By KEB
Well No. MW6B
Well Type [x] Monitor [ ] Extraction [ ] Other
Sampled by KEB
Date 5/30/95

WELL PURGING

PURGE VOLUME

Well casing diameter
[x] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) 18.13
Depth to Water (WL, ft. below TOC) 12.09
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
[x] 3 [ ] 10 [ ] Other 1.02 CASE

PURGE METHOD
[ ] Bailer - Type BTS Ded. Teflon
[ ] Pump - Type
[ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[x] Near Bottom Depth (ft) 17.
[ ] Other

Pumping Rate ______ gpm

PURGE VOLUME CALCULATION

6.04 (Water Column Length) x .17 (Multiplier) x 3 (No. Vols) = 3.08 gals CALCULATED PURGE VOLUME

3.5 gals ACTUAL 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

GROUNDWATER PARAMETER MEASUREMENT Meter Type MYRON L / HF 9057.

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [x] deg F	Turbidity (NTU)	Color/Odor
1331 / 1.25	6.9	1200	58.4	7200	[illegible]
1334 / 2.5	6.9	1200	57.4	7200	[illegible]
1337 / 3.5	6.9	1200	57.5	7200	
/					
/					
/					
/					
/					

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

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 5/30/95, 1337
Bailer - Type [ ] BTS 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
MW6B	40ml / VOA	TPH-G, BTEX	HCl	BC	

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 #624880195 Well No. MW6E
Project Number 950530-EZ Well Type ☑ Monitor ☐ Extraction ☐ Other
Recorded By KEB Sampled by KEB Date 5/30/95

WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☒ 4-inch ☐ Other

Well Total Depth (TD, ft. below TOC) 19.63

Depth to Water (WL, ft. below TOC) 13.20

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

Number of well volumes to be purged
☒ 3 ☐ 10 ☐ Other 4.2 case

PURGE METHOD

☐ Bailer - Type
☑ Pump - Type elec. sub
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☑ Near Bottom Depth (ft) 18
☐ Other

Pumping Rate ______ gpm

PURGE VOLUME CALCULATION

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

15.0 gals ACTUAL 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

GROUNDWATER PARAMETER MEASUREMENT Meter Type Myron L / EFI. slab.

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	☐ deg C ☑ deg F	Turbidity (NTU)	Color/Odor
1353 / 5.0	7.4	610	54.0		200	
1355 / 10.0	7.0	500	53.8		46.8	
1358 / 15.0	7.0	500	53.9		40.5	
/						
/						
/						
/						
/						

Comments during well purge

Well Pumped dry: YES (NO) Purge water storage/disposal ☐ Drummed onsite ☐ Other BTS

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 5/30 95, 1400

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
MW6E	VOA /40 ml	TPH-G	HCl	BC	
		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 #: 624680195
Address: 2225 Peralta Blvd
City, State, ZIP: Fremont, Ca.

Well I.D.	Gals.	Well I.D.	Gals.
MW-6B	1		1
E-I	1 825		1
	1		1
	1		1
	1		1
	1		1
	1		1
	1		1
	1		1
	1		1

Total gals. 825

added rinse water 5.

Total Gals. Recovered 87.5

Job #: 960530-22
Date 5/30/96
Time 1100
Signature:

REC'D AT: BTS
Date: 5/30/96
Time: 1700
Signature:

QUARTERLY SUMMARY REPORT
Former Texaco/Current Exxon Service Station
2225 Telegraph Avenue, Oakland, California
Alameda County
First 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.

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 shortly 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. Texaco will also put out to bid installation of a vapor extraction system to compliment the groundwater extraction system.

COMPANY CONTACT: Karen Petryna (510) 236-9139

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