



Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

ENVIRONMENTAL
PROTECTION

97 JUN 16 PM 3:07

May 15, 1997

ENV - STUDIES, SURVEYS, & REPORTS
2200 E. 12th Street, Oakland, California
Quarterly Monitoring Report

94606

ST/D 245
ST/D 245
BC

Mr. Thomas Peacock
Alameda County Health Department
1131 Harbor Way Pkwy.
Alameda, CA 94502-6577

Dear Mr. Peacock:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on February 24, 1997, at the site referenced above (see Plate 1, Site Vicinity Map). Based on groundwater level measurements, the areal hydraulic gradient was estimated to be west. (see Plate 2, Groundwater Gradient Map). TPHg and benzene concentrations are shown on Plate 3. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively.

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

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

Best Regards,
Texaco Refining and Marketing Inc

Rebecca Digerness
Groundwater Program Analyst

Karen E. Petryna, P. E.
Civil Engineer
Environment, Health and Safety

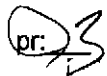


RBD:hs
P:\GWMP\QMR\2200E12\QMR.LET

Enclosure

cc: Mr. Michael Faber
Exxon Company, U. S. A.
2300 Clayton Rd., Suite 1250
Concord, CA 94524

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

pr. 

**Groundwater Monitoring and Sampling
First Quarter, 1997
at the
Former Texaco Service Station
2200 East 12th Street
Oakland, CA**

QUARTERLY SUMMARY REPORT
Former Texaco / Current Exxon Service Station
2200 East 12th, Oakland, California
Alameda County
First Quarter, 1997

SITE HISTORY

Investigations began in May 1988 and initially consisted of a sensitive receptor study and a preliminary subsurface investigation. The investigation consisted of installing three groundwater wells. Site lithology is predominantly clay with sand to a depth of 6 feet bgs, underlain by a sand and pebbles layer approximately 2 feet thick. The sand and pebbles layer overlay a sandy clay and clayey sand layer to a depth of 15 feet. Beneath this later is a poorly graded sand with clay to 16.5 feet bgs. The depth to groundwater is approximately 10 feet bgs. In September 1988, a soil gas survey was conducted at the site. In October 1988, five additional groundwater monitoring wells were installed. Dissolved petroleum hydrocarbons were found in water from two (2) on-site wells, downgradient of the tanks and a pump island. 20 shallow soil borings were drilled and sampled near the pump islands and underground tanks. Slug tests were performed in February 1989 in two on-site wells to evaluate hydraulic properties of shallow saturated material. The site assessment report was completed in the third quarter of 1989. In fourth quarter, 1990 soils with hydrocarbon concentrations at and above 100 mg/kg were excavated between the sidewalk and the canopy covering the western pump islands. Following on-site treatment, the excavated soils were removed from the site to Redwood Landfill in Novato. MW-9E was abandoned, and MW-9I was installed in approximately the same location. During the third quarter of 1991, Exxon removed and replaced the underground storage tanks and product lines.

WORK PERFORMED DURING THIS QUARTER

Annual groundwater monitoring and sampling was performed.

CHARACTERIZATION STATUS

The petroleum hydrocarbons in soil and groundwater have been delineated to the extent warranted by site conditions.

REMEDIATION STATUS

There is no active remediation system required by ACHCSA.

FUTURE WORK TO BE CONDUCTED

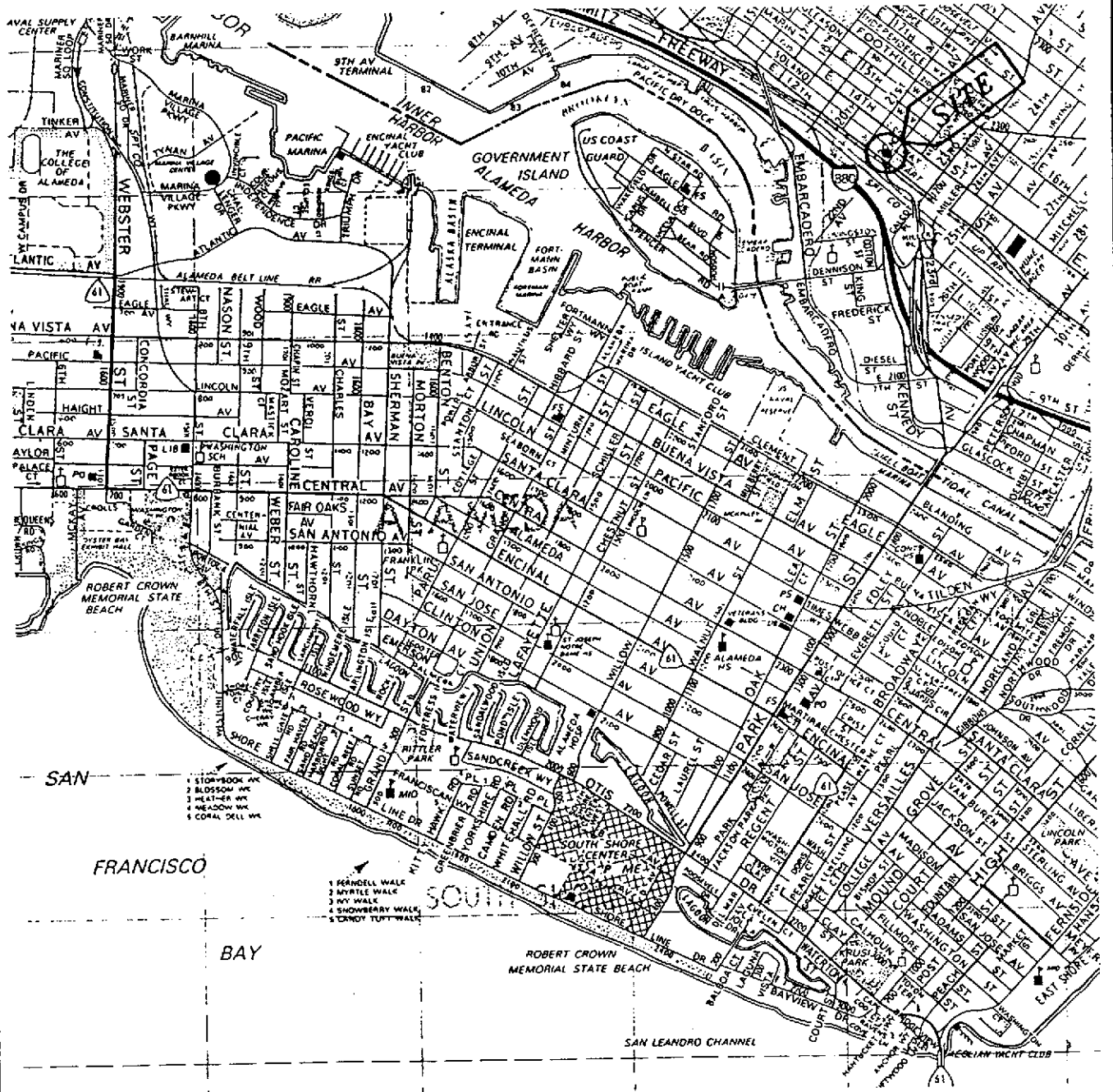
Continue annual monitoring and sampling program, pending closure by the ACHCSA.

CONTACTS

Texaco Refining and Marketing Inc.
Exxon Company, U.S.A.
Property Owner
Site Contact
RWQCB Contact
ACHCSA Contact

Ms. Karen Petryna (510) 236-9139
Mr. Michael Faber (510) 246-8754
Exxon Company, U.S.A.
Exxon Company, U.S.A.
Mr. Richard Heitt, (510) 286-4359
Mr. Dale Klettke, (510) 567-6880

2200.QSR



SOURCE:

1993 THE THOMAS GUIDE
ALAMEDA COUNTY, PAGE 11 (E1)



MILE

1" = 2200'



TEXACO

REFINING AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

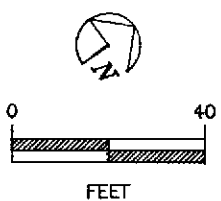
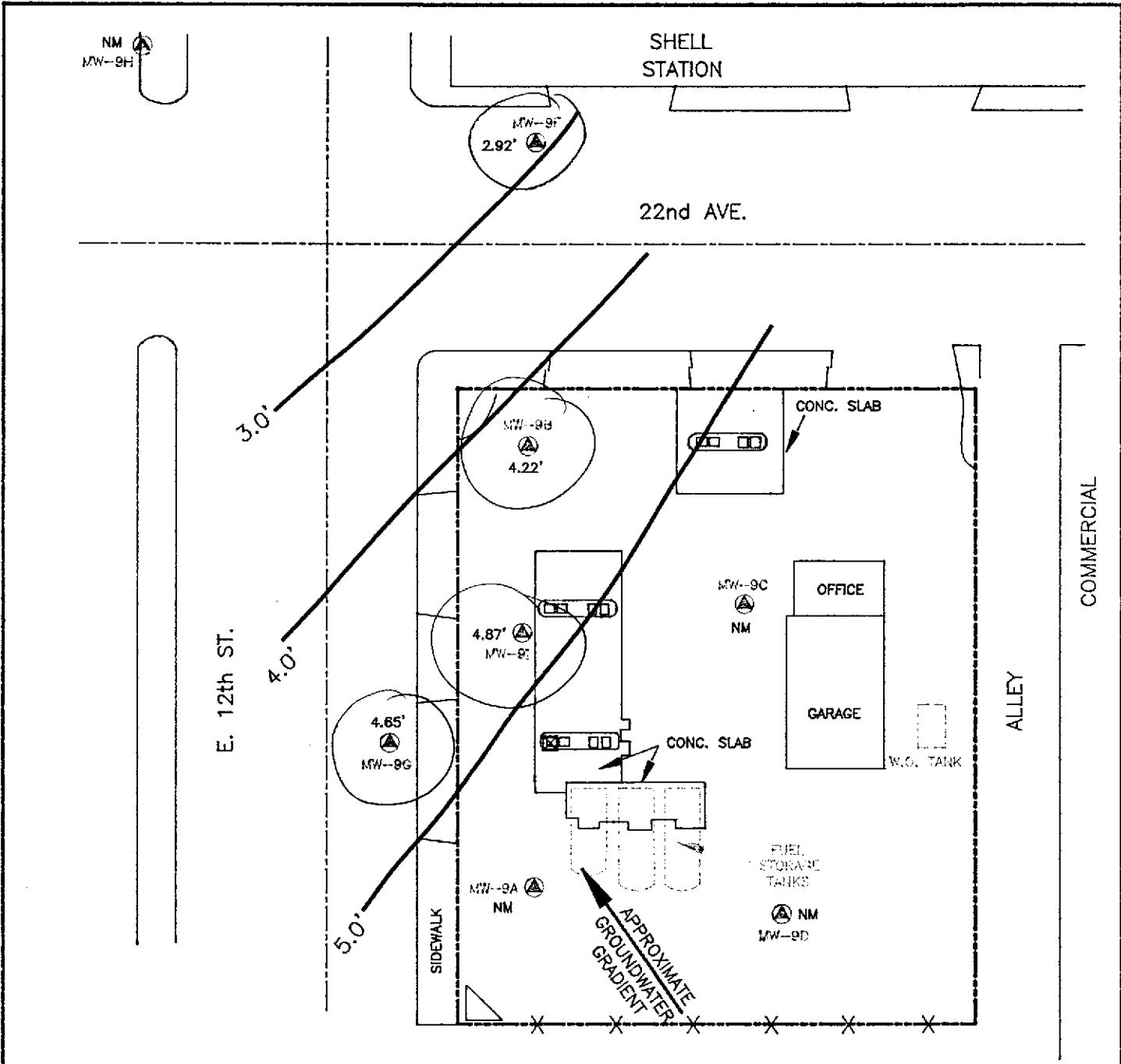
PLATE 1

SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

2200 E. 12th ST. / 22nd AVE.,

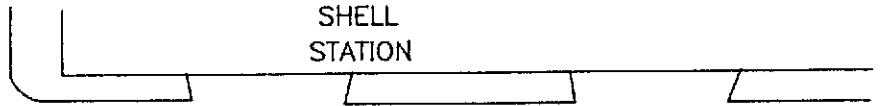
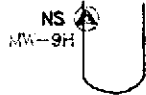
OAKLAND, CALIFORNIA



- LEGEND :**
- MONITORING WELL LOCATION AND WELL NUMBER
 - GROUNDWATER CONTOUR LINE
 - 4.67' GROUNDWATER ELEVATION (ABOVE MSL)
 - NM NOT MEASURED

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

TEXACO REFINING AND MARKETING INC. ENVIRONMENT, HEALTH AND SAFETY	
PLATE 2 : GROUNDWATER GRADIENT MAP (02/24/1997)	
FORMER TEXACO SERVICE STATION	
2200 E. 12th ST. / 22nd AVE., OAKLAND, CALIFORNIA	
SCALE 1"=40'-0"	LOCATION # 62--488--0088
DRAWN BY AMA	DATE 05/14/1997
CHECKED BY <i>KCB</i>	DATE 5/15/97
DRAWING NO. (OAKLAND) 12-22-OK.DWG	



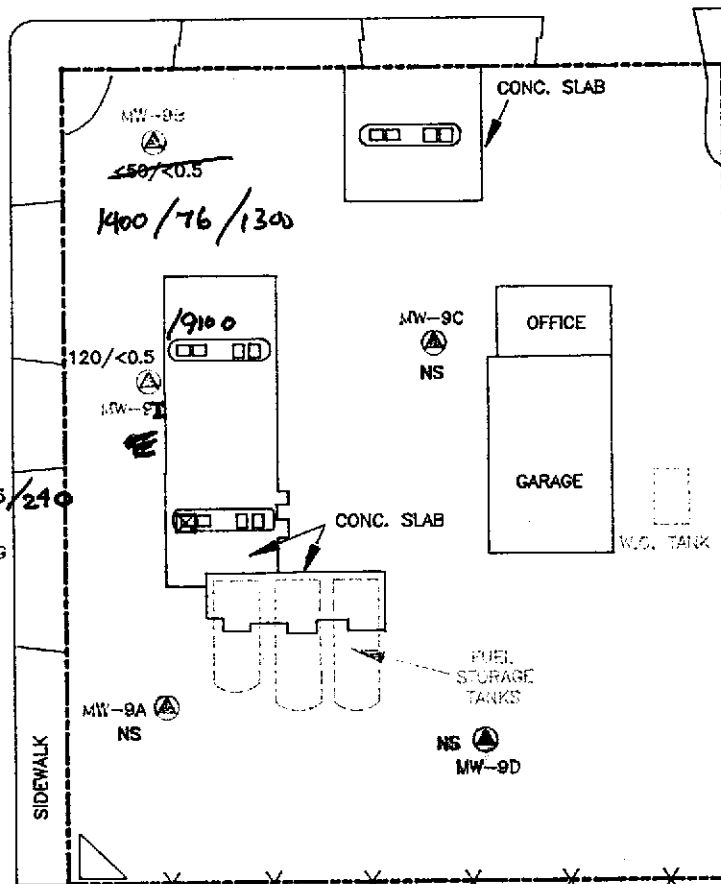
MW-9F
 <50/<0.5/<30

22nd AVE.

ppb g / b / MTBE

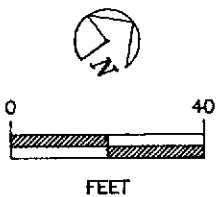


E. 12th ST.



ALLEY

COMMERCIAL



LEGEND :

- MONITORING WELL LOCATION AND WELL NUMBER
- <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 (02/24/1997)	
FORMER TEXACO SERVICE STATION 2200 E. 12th ST. / 22nd AVE., OAKLAND, CALIFORNIA	
SCALE	1"=40'-0"
LOCATION #	62-488-0088
DRAWN BY	AMA
DATE	05/14/1997
CHECKED BY	<i>K. [Signature]</i>
DATE	5/15/97
DRAWING NO. (OAKLAND) 12-22-OK.DWG	

Table 1
Groundwater Elevation Data
2200 East 12th Street, Oakland, CA

Well Number	Date Sampled	Elevation of Wellhead (feet)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-9A	2/5/92	11.46	6.93	4.53
MW-9A	5/5/92	11.46	6.95	4.51
MW-9A	9/14/92	11.46	7.65	3.81
MW-9A	11/16/92	11.46	7.35	4.11
MW-9A	2/3/93	11.46	7.85	3.61
MW-9A	5/18/93	11.46	6.95	4.51
MW-9A	8/26/93	11.46	7.14	4.32
MW-9A	11/4/93	11.46	7.23	4.23
MW-9A	2/4/94	11.46	6.70	4.76
MW-9A	5/31/94	11.46	6.74	4.72
MW-9A	10/26/94	11.46	7.06	4.40
MW-9A	5/15/95	11.46	6.32	5.14
MW-9A	11/02/95	11.46	7.16	4.30
MW-9A	4/26/96	11.46	6.33	5.13
MW-9A	8/22/96	11.46	7.02	4.44
MW-9A	2/24/97	11.46	Not Measured	
MW-9B	2/5/92	9.80	5.95	3.85
MW-9B	5/5/92	9.80	5.92	3.88
MW-9B	9/14/92	9.80	6.60	3.20
MW-9B	11/16/92	9.80	6.35	3.45
MW-9B	2/3/93	9.80	6.50	3.30
MW-9B	5/18/93	9.80	6.42	3.38
MW-9B	8/26/93	9.80	6.28	3.52
MW-9B	11/4/93	9.80	6.23	3.57
MW-9B	2/4/94	9.80	5.92	3.88
MW-9B	5/31/94	9.80	9.22	0.58
MW-9B	10/26/94	9.80	6.04	3.76
MW-9B	5/15/95	9.80	5.34	4.46
MW-9B	11/02/95	9.80	6.14	3.66
MW-9B	4/26/96	9.80	5.66	4.14
MW-9B	8/22/96	9.80	6.16	3.64
MW-9B	2/24/97	9.80	5.58	4.22
MW-9C	2/5/92	11.14	6.44	4.70
MW-9C	5/5/92	11.14	6.50	4.64
MW-9C	9/14/92	11.14	7.00	4.14
MW-9C	11/16/92	11.14	6.72	4.42
MW-9C	2/3/93	11.14	5.75	5.39
MW-9C	5/18/93	11.14	6.72	4.42
MW-9C	8/26/93	11.14	6.84	4.30
MW-9C	11/4/93	11.14	6.90	4.24
MW-9C	2/4/94	11.14	6.28	4.86
MW-9C	5/31/94	11.14	6.42	4.72
MW-9C	10/26/94	11.14	6.80	4.34
MW-9C	5/15/95	11.14	5.72	5.42

Table 1
Groundwater Elevation Data
2200 East 12th Street, Oakland, CA

Well Number	Date Sampled	Elevation of Wellhead (feet)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
MW-9G	11/5/93	9.95	5.96	3.99
MW-9G	2/4/94	9.95	5.48	4.47
MW-9G	5/31/94	9.95	5.50	4.45
MW-9G	10/26/94	9.95	5.76	4.19
MW-9G	5/15/95	9.95	4.88	5.07
MW-9G	11/02/95	9.95	5.92	4.03
MW-9G	4/26/96	9.95	5.28	4.67
MW-9G	8/22/96	9.95	5.57	4.38
MW-9G	2/24/97	9.95	5.30	4.65
MW-9H	2/5/92	8.58	7.70	0.88
MW-9H	5/5/92	8.58	8.12	0.46
MW-9H	9/14/92	8.58	Not Measured	
MW-9H	11/16/92	8.58	Not Measured	
MW-9H	2/3/93	8.58	7.72	0.86
MW-9H	5/18/93	8.58	8.12	0.46
MW-9H	8/26/93	8.58	8.14	0.44
MW-9H	11/5/93	8.58	8.15	0.43
MW-9H	2/4/94	8.58	7.98	0.60
MW-9H	5/31/94	8.58	8.80	-0.22
MW-9H	10/26/94	8.58	8.12	0.46
MW-9H	5/15/95	8.58	7.88	0.70
MW-9H	11/02/95	8.58	8.40	0.18
MW-9H	4/26/96	8.58	8.05	0.53
MW-9H	8/22/96	8.58	8.17	0.41
MW-9H	2/24/97	8.58	Not Measured	
MW-9I	2/5/92	10.11	5.56	4.55
MW-9I	5/5/92	10.11	5.60	4.51
MW-9I	9/14/92	10.11	6.12	3.99
MW-9I	11/16/92	10.11	5.82	4.29
MW-9I	2/3/93	10.11	4.92	5.19
MW-9I	5/18/93	10.11	5.60	4.51
MW-9I	8/26/93	10.11	5.91	4.20
MW-9I	11/4/93	10.11	6.03	4.08
MW-9I	2/4/94	10.11	5.37	4.74
MW-9I	5/31/94	10.11	5.46	4.65
MW-9I	10/26/94	10.11	5.88	4.23
MW-9I	5/15/95	10.11	4.94	5.17
MW-9I	11/02/95	10.11	6.04	4.07
MW-9I	4/26/96	10.11	5.27	4.84
MW-9I	8/22/96	10.11	5.66	4.45
MW-9I	2/24/97	10.11	5.24	4.87
TOC = Top of Casing				

Table 2
Groundwater Analytical Data
2200 East 12th Street
Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	
MW-9A	2/5/1992	<50	1.1	1.8	0.6	1.3	NA	
MW-9A	5/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	9/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	11/16/1992	<50	1.1	<0.5	<0.5	<0.5	NA	
MW-9A	2/3/1993	140	17	19	1.6	20	NA	
MW-9A	5/18/1993	<50	0.8	<0.5	1.3	7	NA	
MW-9A	8/26/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	11/4/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	5/31/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	10/26/1994	66	<0.5	<0.5	<0.5	<0.5	NA	
MW-9A	5/15/1995	<50	0.52	0.67	<0.5	<0.5	NA	
MW-9A	11/2/1995	<50	<0.5	<0.5	<0.5	<0.5	<10	
MW-9A	4/26/1996	Not Sampled						
MW-9A	8/22/1996	Not Sampled						
MW-9A	2/24/1997	Not Sampled						
MW-9B	2/5/1992	60	14	<0.5	2.9	2.5	NA	
MW-9B	5/5/1992	620	180	2.4	8.4	2.2	NA	
MW-9B	9/14/1992	110	9.6	<0.5	<0.5	<0.5	NA	
MW-9B	11/16/1992	200	33	<0.5	4.2	1.4	NA	
MW-9B	2/3/1993	12,000	320	13	35	110	NA	
MW-9B	5/18/1993	180	1.1	<0.5	2.6	5.9	NA	
MW-9B	8/26/1993	180	36	<0.5	3	1.7	NA	
MW-9B	11/4/1993	98	13	<0.5	1.4	<0.5	NA	
MW-9B	2/4/1994	790	170	1.3	12	0.8	NA	
MW-9B	5/31/1994	1,000	150	2.5	8.0	2.1	NA	
MW-9B	10/26/1994	84	2.8	0.72	<0.5	<0.5	NA	
MW-9B	5/15/1995	2,800	420	25	27	6.7	NA	
MW-9B	11/2/1995	130	3.3	<0.5	<0.5	<0.5	<10	
MW-9B	4/26/1996	270	130	2.8	6.7	<3	70	
MW-9B	8/22/1996	210	5.7	6.8	1.1	9.2	31	
MW-9B	2/24/1997	1,400	76	1.4	4.1	1.2	1,300	
MW-9C	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	5/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	9/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	11/16/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	2/3/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	5/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	8/26/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	11/4/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	
MW-9C	5/31/1994	Not Sampled						
MW-9C	10/26/1994	Not Sampled						
MW-9C	5/15/1995	Not Sampled						
MW-9C	11/2/1995	Not Sampled						



Table 2
Groundwater Analytical Data
2200 East 12th Street
Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-9C	4/26/1996	Not Sampled					
MW-9C	8/22/1996	Not Sampled					
MW-9C	2/24/1997	Not Sampled					
MW-9D	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	5/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	9/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	11/16/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	2/3/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	5/18/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	8/26/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	11/4/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9D	5/31/1994	Not Sampled					
MW-9D	10/26/1994	Not Sampled					
MW-9D	5/15/1995	Not Sampled					
MW-9D	11/2/1995	Not Sampled					
MW-9D	4/26/1996	Not Sampled					
MW-9D	8/22/1996	Not Sampled					
MW-9D	2/24/1997	Not Sampled					
MW-9F	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	5/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	9/14/1992	Not Sampled					
MW-9F	11/16/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	2/3/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	5/19/1993	<50	<0.5	<0.5	1.2	6.8	NA
MW-9F	8/26/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	11/5/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9F	5/31/1994	Not Sampled					
MW-9F	10/26/1994	Not Sampled					
MW-9F	5/15/1995	Not Sampled					
MW-9F	11/2/1995	Not Sampled					
MW-9F	4/26/1996	<50	<0.5	<0.5	<0.5	<0.5	57
MW-9F	8/22/1996	<50	<0.5	<0.5	<0.5	<0.5	5.8
MW-9F	2/24/1997	<50	<0.5	<0.5	<0.5	<0.5	<30
MW-9G	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9G	5/5/1992	<50	1.5	3.8	1	4.7	NA
MW-9G	9/14/1992	Not Sampled					
MW-9G	11/16/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9G	2/3/1993	64	<0.5	<0.5	<0.5	<0.5	NA
MW-9G	5/19/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9G	8/26/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9G	11/5/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9G	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA

Table 2
Groundwater Analytical Data
2200 East 12th Street
Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-9G	5/31/1994	Not Sampled					
MW-9G	10/26/1994	Not Sampled					
MW-9G	5/15/1995	Not Sampled					
MW-9G	11/2/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-9G	4/26/1996	<50	<0.5	<0.5	<0.5	<0.5	18
MW-9G	8/22/1996	<50	<0.5	<0.5	<0.5	<0.5	18
MW-9G	2/24/1997	<50	<0.5	0.57	<0.5	0.62	240
MW-9H	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	5/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	9/14/1992	Not Sampled					
MW-9H	11/16/1992	Not Sampled					
MW-9H	2/3/1993	280	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	5/19/1993	<50	<0.5	<0.5	1.1	6.4	NA
MW-9H	8/26/1993	<50	0.8	<0.5	<0.5	<0.5	NA
MW-9H	11/5/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	5/31/1994	<50	0.92	1.1	<0.5	0.86	NA
MW-9H	10/26/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	5/15/1995	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9H	11/2/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-9H	4/26/1996	Not Sampled					
MW-9H	8/22/1996	Not Sampled					
MW-9H	2/24/1997	Not Sampled					

Table 2
Groundwater Analytical Data
2200 East 12th Street
Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW-9I	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	5/5/1992	<50	0.9	<0.5	<0.5	0.7	NA
MW-9I	9/14/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	11/16/1992	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	2/2/1993	240	46	1.1	2.3	2.1	NA
MW-9I	5/18/1993	79	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	8/26/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	11/4/1993	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	2/4/1994	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	5/31/1994	240	0.66	0.63	<0.5	1.4	NA
MW-9I	10/26/1994	150	<0.5	<0.5	<0.5	<0.5	NA
MW-9I	5/15/1995	56	<0.5	0.82	<0.5	<0.5	NA
MW-9I	11/2/1995	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-9I	4/26/1996	<50	<0.5	<0.5	<0.5	<0.5	99
MW-9I	8/22/1996	<50	<0.5	<0.5	<0.5	<0.5	170
MW-9I	2/24/1997	120	<0.5	<0.5	<0.5	<0.5	9100
MTBE = Methyl-tert-butylether							
NA = Not Analyzed							
ppb = parts per billion							
TPHg = Total petroleum hydrocarbons analyzed as gasoline							
< = Less than the detection limit for the specified method of analysis							

801 Western Avenue
 Glendale, CA 91201
 318/247-5737
 Fax: 818/247-9797

LOG NO: G97-02-595

Received: 24 FEB 97

Mailed: **MAR 6 1997**

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

Purchase Order: 94-1446346+4370

Requisition: 624880088
 Project: FKEP9035L

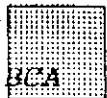
REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	ANALYTICAL DATA								
			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	30	0.5	
1*MW-9B	02/24/97	03/02/97		1	1400	76	1.4	4.1	1300	1.2	C6-C12
2*MW-9F	02/24/97	03/02/97		1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12
3*MW-9G	02/24/97	03/02/97		1	<50	<0.5	0.57	<0.5	240	0.62	C6-C12
4*MW-9I	02/24/97	03/02/97		1	120	<0.5	<0.5	<0.5	8400	<0.5	C6-C12

Karen Petryna
 2200 East Twelfth St., Oakland
 Alameda County



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

LOG NO: G97-02-595

Received: 24 FEB 97

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

Purchase Order: 94-1446345+4370

Requisition: 624880088
 Project: FKEP9035L

REPORT OF ANALYTICAL RESULTS

Page 2

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	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	30	0.5	
5*EB	02/24/97	03/02/97	1	<50	<0.5	<0.5	<0.5	<30	<0.5	C6-C12

Greta Galoustian, Laboratory Director

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

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ORDER PLACED FOR CLIENT: Texaco Environmental Services 9702595 :
BC ANALYTICAL : GLEN LAB : 13:07:46 06 MAR 1997 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9702595*1	MW-9B	GAS.MTBE.TESNC DATA.REVIEW	03.02.97 03.06.97	8015M.TX	536-23	975021	7424 7524
9702595*2	MW-9F	GAS.MTBE.TESNC DATA.REVIEW	03.02.97 03.06.97	8015M.TX	536-23	975021	7424 7524
9702595*3	MW-9G	GAS.MTBE.TESNC DATA.REVIEW	03.02.97 03.06.97	8015M.TX	536-23	975021	7424 7524
9702595*4	MW-9I	GAS.MTBE.TESNC DATA.REVIEW	03.02.97 03.06.97	8015M.TX	536-23	975021	7424 7524
9702595*5	EB	GAS.MTBE.TESNC	03.02.97	8015M.TX	536-23	975021	7424

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
ID.NO = BC Analytical employee identification number of analyst.

AQUEOUS SAMPLES	----- METHOD BLANK -----				----- LAB CONTROL -----						----- MATRIX QC -----											
	UNITS	RESULT	RDL	FLG	LCS %REC	FLG	LCSD %REC	FLG	LCL	UCL	RPD	UCL	FLG	MS %REC	FLG	MSD %REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: GAS*975021 Method: 8015M.TX - Modified 8015																						
Benzene	ug/L	0	0.5	-	97	-	-	-	76	155	-	-	-	88	-	82	-	70	153	7	25	-
Toluene	ug/L	0	0.5	-	91	-	-	-	72	121	-	-	-	81	-	84	-	69	119	4	25	-
Ethylbenzene	ug/L	0	0.5	-	94	-	-	-	72	115	-	-	-	83	-	87	-	68	116	5	25	-
Methyl-tert-butylether	ug/L	0	30	-	88	-	-	-	62	159	-	-	-	93	-	107	-	80	176	14	25	-
Total Xylene Isomers	ug/L	0	0.5	-	95	-	-	-	68	115	-	-	-	86	-	87	-	61	118	1	25	-
TPH (Gasoline Range)	ug/L	0	50	-	106	-	-	-	85	120	-	-	-	105	-	107	-	78	124	3	25	-
[a,a,a-Trifluorotoluene]	Percent	97	-	-	118	-	-	-	85	118	-	-	-	97	-	91	-	85	118	-	-	-

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 13:08:25 06 MAR 1997 - P. 1 :
=====

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9702595*1							
8015M.TXa	a,a-Trifluorotoluene	Re975021	03/02/97	51.2	50.0	102	
9702595*2							
8015M.TXa	a,a-Trifluorotoluene	Re975021	03/02/97	48.4	50.0	97	
9702595*3							
8015M.TXa	a,a-Trifluorotoluene	Re975021	03/02/97	47.5	50.0	95	
9702595*4							
8015M.TXa	a,a-Trifluorotoluene	Re975021	03/02/97	46.4	50.0	93	
9702595*5							
8015M.TXa	a,a-Trifluorotoluene	Re975021	03/02/97	48.4	50.0	97	

171-02-575

Chain-of-Custody

Texaco Environmental Services

108 Cutting Boulevard
Richmond, California 94804
Phone: (510) 230-3541
FAX: (510) 237-7021

Forward Results to the Attention of Rebecca Digerness

Texaco Project Corordinator Karen Petryna

Site Name: Texaco Loc. # 624880088

Site Address: 2200 East Twelfth St. Oakland, CA

Contractor Project Number: 790224-21

Contractor Name: Blaine Tech Services, Inc.

Address: 1680 Rogers Ave., San Jose, CA 95112

Project Contact: Kent Brown

Phone/FAX: (408) 573-0555 / (408) 573-7771

Laboratory: B C Analytical

Turn Around Time: normal (10 day)

Samplers (PRINT NAME): BRETT BLEN

Sampler Signature: [Signature]

Date Samples Collected: 2-24-97

ANALYSIS

KEP
624880088
FKEP 9035L
Alameda

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
MW-9B		2-24-97 / 1410	3				X								
MW-9F		1350	3				X								
MW-9G		1320	3				X								
MW-9I		1335	3				X								
EB		1325	3				X								

Relinquished by: [Signature] Date: 2-24-97 Time: 4:15

Received by: [Signature] Date: 2-24-97 Time: 4:15

Relinquished by: [Signature] Date: 2-24-97 Time: 6:15

Received by: [Signature] Date: 2/25/97 Time: 9:30

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Method of Shipment: _____

Lab Comments: _____



Our Quality Control Is Your Quality Assurance

ANALYTICAL REPORT

LOG NO: G97-03-171

Received: 06 MAR 97

Mailed: MAR 13 1997

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

Purchase Order: 94-1446346+4370

Requisition: 624880088
Project: FKEP9035L

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	03-171-1
DATE SAMPLED	24 FEB 97
SAMPLE DESCRIPTION	MW-91
AQUEOUS	
Volatile Organics (8240)	
Date Analyzed	03/07/97
Dilution Factor, Times	50
Methyl-tert-butylether, ug/L	9100
Other Volatile Organics (8240)	---
Surrogates **	
1,2-Dichloroethane-d4 Rep., ug/L	1970
1,2-Dichloroethane-d4 Theo., ug/L	2500

Karen Petryna
2200 East 12th Street, Oakland
Alameda County

Greta Galoustian, Laboratory Director

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

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ORDER PLACED FOR CLIENT: Texaco Environmental Services 9703171 :

BC ANALYTICAL : GLEN LAB : 17:14:16 12 MAR 1997 - P. 1 :

=====

MPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
03171*1	MW-9I	VOA.8240.MTBE	03.07.97	8240	537-01	971037	8659

*

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

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

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 17:14:41 12 MAR 1997 - P. 1 :

=====

ETHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
703171*1							
240	1,2-Dichloroethane-d4	Rep971037	03/07/97	1970	2500	79	

697-02-111 697-02-595

Chain-of-Custody

Toxaco Environmental Services

100 Cutting Boulevard
 Richmond, California 94804
 Phone: (510) 238-3541
 FAX: (510) 237-7821

Forward Results to the Attention of Rebecca Digerness

Texaco Project Coordinator Karen Petryna

Site Name: Texaco Loc. # 624880088
 Site Address: 2200 East Twelfth St. Oakland, CA
 Contractor Project Number: 990224-22
 Contractor Name: Blaine Tech Services, Inc.
 Address: 1680 Rogers Ave., San Jose, CA 95112
 Project Contact: Kent Brown
 Phone/FAX: (408) 573-0555 / (408) 573-7771

Laboratory: B C Analytical
 Turn Around Time: normal (10 day)
 Samplers (PRINT NAME): BREIT BLEAU
 Sampler Signature: [Signature]
 Date Samples Collected: 2-24-97

ANALYSIS

Sample Number	Lab Sample Number	Date/Time Collected	No. of Containers	Type of Containers	Sample Matrix	Preservative	TPH gas/BTEX/WBE	TPH Diesel	O&G/TPH (41B.1)	TPH Ex. (C8-C36 +)	VOCs 8240/624	P. Halocarbons 8010/60	P. Aromatics 8020/602	Organic Lead
MW-9B		2-24-97 / 1410	3				X							
MW-9F		1 / 1350	3				X							
MW-9G		1 / 1320	3				X							
MW-9I		1 / 1335	3				X							
EB		1 / 1325	3				X							

KEP
 624880088
 FKEP 9035L
 Alameda

Comments

Relinquished by: [Signature] Date: 2-24-97 Time: 4:15
 Relinquished by: [Signature] Date: 2-24-97 Time: 6:15
 Relinquished by: _____ Date: _____ Time: _____

Received by: [Signature] Date: 2-24-97 Time: 4:15
 Received by: [Signature] Date: 2/25/97 Time: 9:30
 Received by: _____ Date: _____ Time: _____

Method of Shipment: _____

Lab Comments: _____

TEXACO WELL MONITORING DATA SHEET

Project #: 970224-2v	Texaco ID#: 624 880 088
Sampler: BB	Date: 2-24
Well I.D.: MW-9B	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 17.58	Depth to Water: 5.58
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

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

Purge Method: S.S. Bailer <input checked="" type="checkbox"/> Teflon Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: S.S. Bailer <input checked="" type="checkbox"/> Teflon Bailer Extraction Port Other: _____
--	--

1.1	X	3	=	5.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1400	65.8	7.5	840	7200	2	SUBMIT ODOR
1412	65.4	7.4	880	7200	3	"
1405	65.2	7.4	900	7200	5.75	"

Did well dewater? Yes No Gallons actually evacuated: 5.75

Sampling Time: 1400 Sampling Date: 2-24

Sample I.D.: MW-1B Laboratory: BC Analytical

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

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

TEXACO WELL MONITORING DATA SHEET

Project #: 770224-27	Texaco ID#: 624 000 000
Sampler: BB	Date: 2-24
Well I.D.: MW-1F	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 13.90	Depth to Water: 5.45
Depth to Free Product:	Thickness of Free Product:
All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit.	

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

Purge Method: S.S. Bailer Teflon Bailer Middleburg Electric Submersible \times Extraction Pump Other: _____	Sampling Method: S.S. Bailer \times Teflon Bailer Extraction Port Other: _____
--	---

<u>5.5</u>	X	<u>3</u>	=	<u>16.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Color/Odor
1343	67.0	7.3	680	26	6	
1344	67.4	7.2	750	17	12	
1345	67.4	7.2	750	11	17	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 17
Sampling Time: 1355	Sampling Date: 2-24
Sample I.D.: MW-1F	Laboratory: BC Analytical
Analyzed for: Tph-G BTEX Tph-D	Other: MTBE
Equipment Blank I.D.:	Analyzed for same as primary sample

