Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

95 AUG 11 PM 2:42

July 26, 1995

ENV - STUDIES, SURVEYS, & REPORTS
500 Grand Avenue
Oakland, California

Ms. Susan Hugo
Alameda County Environmental
Health Department
1131 Harbor Bay Pky.
Alameda, CA 94502-6577

Dear Ms. Hugo:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on June 18, 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-southeast (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 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, Tom Hargett at (818) 505-2733.

Best Regards,

Rebecca Digerness
Environmental Assistant

REGISTERED GEOLOGIST
THOMAS W. HARGETT
No. 5510
Exp. 9/95
STATE OF CALIFORNIA

Tom Hargett, R. G.
Project Coordinator
Texaco Environmental Services

RBD:hs
P:\GWMP\QMR\500G\QMR.LET

Enclosures

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

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

pr: KEP

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

SOURCE:
1993 THE THOMAS GUIDE
ALAMEDA COUNTY, PAGE 9 (D4)

N

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

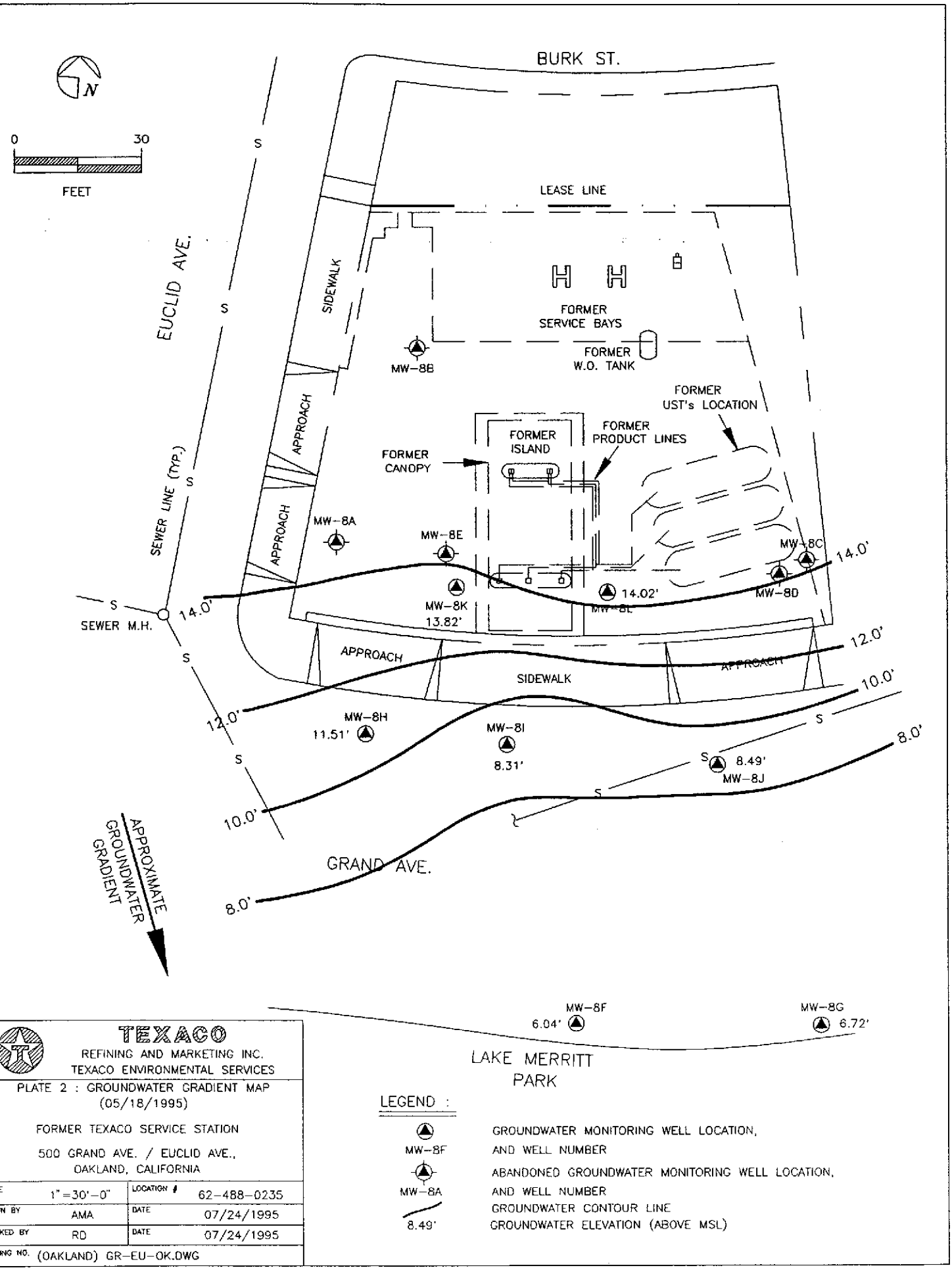
TEXACO
REFINING AND MARKETING,INC.
TEXACO ENVIRONMENTAL SERVICES

PLATE 1

SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

500 GRAND AVE. / EUCLID AVE.,
OAKLAND, CALIFORNIA



TEXACO
REFINING AND MARKETING INC.
TEXACO ENVIRONMENTAL SERVICES

PLATE 2 : GROUNDWATER GRADIENT MAP
(05/18/1995)

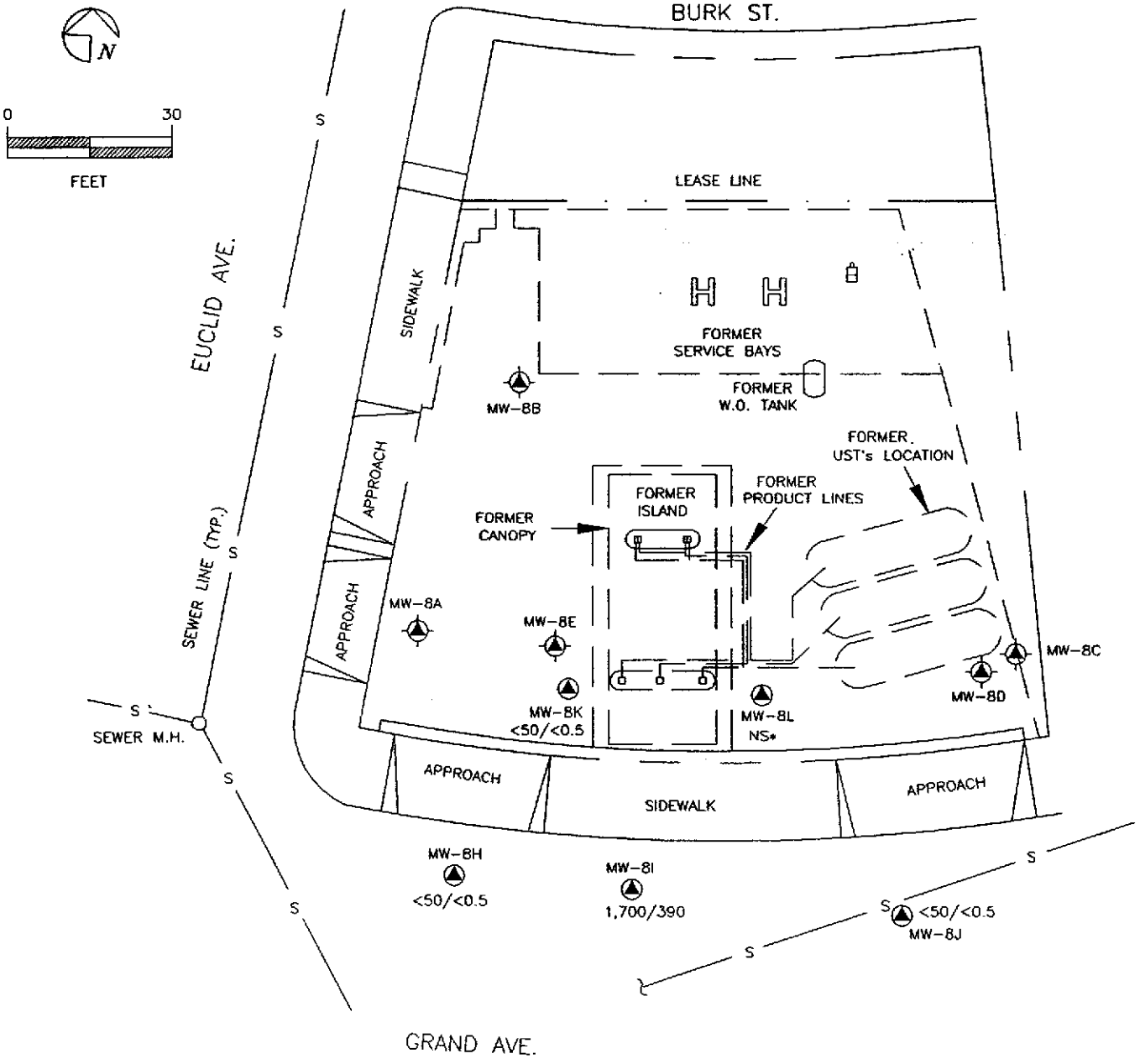
FORMER TEXACO SERVICE STATION

500 GRAND AVE. / EUCLID AVE.,
OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-0235
DRAWN BY	AMA	DATE	07/24/1995
CHECKED BY	RD	DATE	07/24/1995
DRAWING NO.	(OAKLAND) GR-EU-OK.DWG		

LEGEND :

MW-8F	GROUNDWATER MONITORING WELL LOCATION, AND WELL NUMBER
MW-8A	ABANDONED GROUNDWATER MONITORING WELL LOCATION, AND WELL NUMBER
8.49'	GROUNDWATER CONTOUR LINE GROUNDWATER ELEVATION (ABOVE MSL)



TEXACO
REFINING AND MARKETING INC.
TEXACO ENVIRONMENTAL SERVICES

PLATE 3 : TPHg/BENZENE CONCENTRATION IN GROUNDWATER (05/18/1995)

FORMER TEXACO SERVICE STATION

500 GRAND AVE. / EUCLID AVE., OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-0235
DRAWN BY	AMA	DATE	07/24/1995
CHECKED BY	RD	DATE	07/24/1995
DRAWING NO.	(OAKLAND) GR-EU-OK.DWG		

LEGEND :

MW-8F	GROUNDWATER MONITORING WELL LOCATION, AND WELL NUMBER
MW-8A	ABANDONED GROUNDWATER MONITORING WELL LOCATION, AND WELL NUMBER
<50/<0.5	TPHg/BENZENE CONCENTRATION IN GROUNDWATER (ppb)
NS*	NOT SAMPLED, WELL OBSTRUCTED

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)
MW-8A	Well Properly Abandoned				
MW-8B	Well Properly Abandoned				
MW-8C	Well Properly Abandoned				
MW-8D	Well Properly Abandoned				
MW-8E	Well Properly Abandoned				
MW-8F	03/29/91	97.94			
	01/23/92			10.24	87.70
	02/28/92			9.93	88.01
	03/26/92			8.78	89.16
	04/30/92			9.36	88.58
	09/28/92			11.83	86.11
	11/19/92			11.22	86.72
	02/12/93			9.66	88.28
	05/06/93			8.83	89.11
	08/16/93	14.04	*	10.16	3.88
	10/12/93			10.60	3.44
	02/03/94			9.29	4.75
	05/31/94			9.34	4.70
	08/25/94			10.14	3.90
	11/02/94			10.42	3.62
	01/31/95			7.47	6.57
	05/18/95			8.00	6.04
MW-8G	04/23/91	97.24			
	01/23/92			11.30	85.94
	02/28/92			10.83	86.41
	03/26/92			9.20	88.04
	04/30/92			9.00	88.24
	09/28/92			13.32	83.92
	11/19/92			Well Inaccessible	
	02/12/93			Well Inaccessible	
	05/06/93			11.18	86.06
	08/16/93	13.32	*	9.51	3.81
	10/12/93			10.93	2.39
	02/03/94			9.69	3.63
	05/31/94			9.24	4.08
	08/25/94			9.74	3.58
	11/02/94			10.08	3.24
	01/31/95			5.75	7.57
	05/18/95			6.60	6.72

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)
MW-8H	03/29/91	98.90			
	01/23/92			3.74	95.16
	02/28/92			4.44	94.46
	03/26/92			4.21	94.69
	04/30/92			3.46	95.44
	09/28/92			Well Inaccessible	
	11/19/92			3.75	95.15
	02/12/93			4.12	94.78
	05/06/93			3.85	95.05
	08/16/93	15.04	*	3.88	11.16
	10/12/93			3.80	11.24
	02/03/94			3.71	11.33
	05/31/94			3.80	11.24
	08/25/94			3.89	11.15
	11/02/94			3.64	11.40
	01/31/95			3.58	11.46
	05/18/95			3.53	11.51
MW-8I	03/29/91	98.27			
	01/23/92			6.33	91.94
	02/28/92			6.55	91.72
	03/26/92			6.45	91.82
	04/30/92			6.48	91.79
	09/28/92			Well Inaccessible	
	11/19/92			6.37	91.90
	02/12/93			6.44	91.83
	05/06/93			6.36	91.91
	08/16/93	14.40	*	6.35	8.05
	10/12/93			5.99	8.41
	02/03/94			5.84	8.56
	05/31/94			6.25	8.15
	08/25/94			6.31	8.09
	11/02/94			6.10	8.30
	01/31/95			5.83	8.57
	05/18/95			6.09	8.31

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

Well Number	Date Gauged	Top of Casing Elevation (feet, MSL)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)
MW-8J	03/29/91	97.69			
	01/23/92			6.31	91.38
	02/28/92			6.28	91.41
	03/26/92			6.20	91.49
	04/30/92			6.48	91.21
	09/28/92			Well Inaccessible	
	11/19/92			6.55	91.14
	02/12/93			7.46	90.23
	05/06/93			6.21	91.48
	08/16/93	13.82	*	6.29	7.53
	10/12/93			5.87	7.95
	02/03/94			5.98	7.84
	05/31/94			6.10	7.72
	08/25/94			6.01	7.81
	11/02/94			5.90	7.92
	01/31/95			5.07	8.75
	05/18/95			5.33	8.49
MW-8K	08/16/93	15.18	*	2.08	13.10
	10/12/93			1.95	13.23
	02/03/94			1.48	13.70
	05/31/94			1.59	13.59
	08/25/94			2.00	13.18
	11/02/94			2.10	13.08
	01/31/95			1.35	13.83
	05/18/95			1.36	13.82
MW-8L	08/16/93	14.44	*	2.47	11.97
	10/12/93			2.36	12.08
	02/03/94			2.82	11.62
	05/31/94			2.66	11.78
	08/25/94			2.34	12.10
	11/02/94			Well Obstructed	
	01/31/95			0.08	14.36
	05/18/95			0.42	14.02

* = New well elevation survey performed on August 16, 1993 based on mean sea level (MSL). Prior data based on arbitrary site data.

TOC = Top of Casing

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

Well Number		Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPHd (ppm)	TPH as Other* (ppm)
MW-8A		Well properly abandoned							
MW-8B		Well properly abandoned							
MW-8C		Well properly abandoned							
MW-8D		Well properly abandoned							
MW-8E		Well properly abandoned							
MW-8F		01/23/92	<50	4.0	1.3	<0.5	1.9	1.3	NA
		04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<500
		09/28/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
		11/19/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
		02/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	NA
		05/06/93	<50	<0.5	<0.5	<0.5	<0.5	<0.1	<50
		08/16/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
		10/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
		02/03/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
		05/31/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	0.53
		08/25/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	1.4
		11/02/94	<50	<0.5	<0.5	<0.5	<0.5	0.52	<5
		01/31/95	<50	<0.5	<0.5	<0.5	<0.5	0.29	<5
		05/18/95	<50	<0.5	<0.5	<0.5	<0.5	0.054	<5
MW-8G	**	01/24/92	<50	<0.5	<0.5	<0.5	<0.5	0.98	NA
		04/30/92	<50	1.7	<0.5	<0.5	<0.5	<0.05	<500
		09/28/92	Well Dry						
		11/19/92	Well Inaccessible						
		02/12/93	Well Inaccessible						
		04/29/93	<50	<0.5	<0.5	<0.5	<0.5	0.06	<250
		08/16/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
		10/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
		02/03/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
		05/31/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<0.2
		08/25/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	0.86
		11/02/94	<50	<0.5	<0.5	<0.5	<0.5	0.53	<5
		01/31/95	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
		05/18/95	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPHd (ppm)	TPH as Other* (ppm)
MW-8H	01/23/92	110	7.2	1.2	4.7	3.2	<0.06	NA
	04/30/92	190	11	1.5	5.6	3.6	0.09	<500
	09/28/92	Well Inaccessible						
	11/19/92	130	6.8	<0.5	1.1	1.5	NA	NA
	02/12/93	73	5.9	<0.5	0.8	<0.5	NA	NA
	05/06/93	57	1.7	<0.5	<0.5	<0.5	<0.1	<50
	08/16/93	<50	0.5	<0.5	0.5	1.4	<0.05	<50
	10/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
	02/03/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
	05/31/94	<50	0.79	<0.5	<0.5	<0.5	<0.05	1.6
	08/25/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	4.0
	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	0.76	<5
	01/31/95	<50	<0.5	<0.5	<0.5	<0.5	0.19	<5
	05/18/95	<50	<0.5	<0.5	<0.5	<0.5	0.37	6.6
MW-8I	01/23/92	820	420	7	27	20	0.21	NA
	04/30/92	2,200	1,800	19	180	25	0.43	<500
	09/28/92	Well Inaccessible						
	11/19/92	720	120	1.1	29	13	NA	NA
	02/12/93	4,000	970	9.2	52	36	NA	NA
	05/06/93	1,400	370	2.4	40	8.4	<0.01	<50
	08/16/93	<50	3.1	<0.5	6	<0.5	<0.05	<50
	10/12/93	<50	1.4	<0.5	<0.5	<0.5	<0.05	<50
	02/03/94	1,000	270	3.2	51	14	<0.05	<50
	05/31/94	1,400	330	4.6	52	16	<0.05	0.33
	08/25/94	540	14	0.58	30	4.3	<0.05	0.73
	11/02/94	310	5.7	0.74	20	<0.5	0.37	<5
	01/31/95	840	290	4.5	45	1.6	0.91	<5
	05/18/95	1,700	390	7.8	80	10	1.1	<5
MW-8J	01/23/92	<50	1	<0.5	<0.5	<0.5	<0.05	NA
	04/30/92	<50	2	<0.5	<0.5	<0.5	<0.05	<500
	09/28/92	Well Inaccessible						
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/12/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	05/06/93	<50	<0.5	<0.5	<0.5	<0.5	<0.01	<50
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
	10/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
	02/03/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
	05/31/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<0.2
	08/25/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	1.0
	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
	01/31/95	<50	3.7	<0.5	<0.5	<0.5	<0.05	<5
	05/18/95	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPHd (ppm)	TPH as Other* (ppm)
MW-8K	05/21/93	54	12	<0.5	<0.5	<0.5	<0.05	<50
	08/16/93	<50	<0.5	<0.5	1.0	<0.5	<0.05	<50
	10/24/93	<50	4.2	<0.5	<0.5	<0.5	<0.05	<50
	02/03/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<50
	05/31/94	<50	1.0	0.57	<0.5	<0.5	<0.05	<0.2
	08/25/94	<50	0.78	<0.5	<0.5	<0.5	<0.05	0.98
	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
	01/31/95	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
	05/18/95	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
MW-8L	05/21/93	76	1.1	<0.5	<0.5	6	<0.05	<50
	08/16/93	<50	<0.5	<0.5	0.7	1.1	<0.05	<50
	10/12/93	110	13	<0.5	6	<0.5	<0.05	<50
	02/03/94	590	61	2.4	<0.5	110	<0.05	<50
	05/31/94	410	77	<0.5	20	1.1	<0.05	<0.2
	08/25/94	260	16	<0.5	2.5	<0.5	<0.05	1.1
	11/02/94	Not Sampled						
	01/31/95	Not Sampled						
	05/18/95	Not Sampled						
EB	08/25/94	69	<0.5	<0.5	<0.5	<0.5	<0.05	0.71
	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
	05/18/95	<50	<0.5	<0.5	<0.5	<0.5	<0.05	<5
TB	08/25/94	52	<0.5	<0.5	<0.5	<0.5	NA	NA
	11/02/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	05/18/95	<50	<0.5	<0.5	<0.5	<0.5	NA	NA

EB = Equipment Blank
TB = Trip Blank
ppb = parts per billion
ppm = parts per million
NA = Not Analyzed
< = Less than the detection limit for the specified method of analysis.
* = Includes "heavy" petroleum hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil.
** = Non-diesel mix >C16. The certified analytical report for sample MW-8G was revised on 10/21/93.

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G95-05-348

Received: 19 MAY 95

Mailed: JUN 1 1995

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

Purchase Order: 94-1446346+4370

Requisition: 624880235
Project: FKEP1014L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TRPH (CADHS/418.1)	TPH/BTEX (CADHS/8020)							
		mg/L	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*MW-8F	05/18/95	<5	05/30/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
2*MW-8G	05/18/95	<5	05/30/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3*MW-8H	05/18/95	6.6	05/30/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
4*MW-8L	05/18/95	<5	05/30/95	5	1700	390	7.8	80	10	C6-C12
5*MW-8J	05/18/95	<5	05/30/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
6*MW-8K	05/18/95	<5	05/31/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
7*EB	05/18/95	<5	05/31/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
8*TB	05/18/95	---	05/31/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

B C Analytical

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

ANALYTICAL REPORT

LOG NO: G95-05-348

Received: 19 MAY 95

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

Purchase Order: 94-1446346+4370

Requisition: 624880235
Project: FKEP1014L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH (CADHS/3520)								
		Date Extracted Date	Date Analyzed Date	Dilution Factor Times	TPH-d mg/L					
RDL					0.05					
1*MW-8F	05/18/95	05/24/95	05/26/95	1	0.054	---				
2*MW-8G	05/18/95	05/24/95	05/26/95	1	<0.05	---				
3*MW-8H	05/18/95	05/24/95	05/26/95	1	0.37	---				
4*MW-8I	05/18/95	05/24/95	05/26/95	1	1.1	---				
5*MW-8J	05/18/95	05/24/95	05/26/95	1	<0.05	---				
6*MW-8K	05/18/95	05/24/95	05/26/95	1	<0.05	---				
7*EB	05/18/95	05/24/95	05/26/95	1	<0.05	---				
8*TB	05/18/95	---	---	---	---	---				

Tom Hargett
500 Grand Ave., Oakland
Alameda County

Jane Freemyer, Program Manager

AMPL'S...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9505348*1	MW-8F	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		GAS.BTX.TESNC	05.30.95	8015M.TX	536-23	95563	8042
		DIESEL.3520.TES	05.26.95	8015M	536-01	9564	7616
9505348*2	MW-8G	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		DIESEL.3520.TES	05.26.95	8015M	636-01	9564	7616
		GAS.BTX.TESNC	05.30.95	8015M.TX	536-23	95563	8042
9505348*3	MW-8H	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		DIESEL.3520.TES	05.26.95	8015M	636-01	9564	7616
		GAS.BTX.TESNC	05.30.95	8015M.TX	536-23	95563	8042
9505348*4	MW-8I	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		DIESEL.3520.TES	05.26.95	8015M	636-01	9564	7616
		GAS.BTX.TESNC	05.30.95	8015M.TX	536-23	95563	8042
9505348*5	MW-8J	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		DIESEL.3520.TES	05.26.95	8015M	636-01	9564	7616
		GAS.BTX.TESNC	05.30.95	8015M.TX	536-23	95563	8042
9505348*6	MW-8K	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		DIESEL.3520.TES	05.26.95	8015M	636-01	9564	7616
		GAS.BTX.TESNC	05.31.95	8015M.TX	536-23	95563	8042
9505348*7	EB	IR.PET.TES.AQ	05.23.95	418.1	533-17	9579	8106
		DIESEL.3520.TES	05.26.95	8015M	636-01	9564	7616
		GAS.BTX.TESNC	05.31.95	8015M.TX	536-23	95563	8042
9505348*8	TB	GAS.BTX.TESNC	05.31.95	8015M.TX	536-23	95563	8042

***

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 G9505348

DATE REPORTED : 06/01/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER		DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TRPH/CADHS/418.1	C5052639*1	05.23.95	9579	3.93	2.50	mg/L	157
2. TRPH/CADHS/418.1	C5052640*1	05.23.95	9579	4.04	2.50	mg/L	162
3. TPH (8015M/8020)	C5053357*1						
Date Analyzed		05.30.95	95563	05/30/95	05/30/95	Date	N/A
Benzene		05.30.95	95563	15.8	15.2	ug/L	104
Toluene		05.30.95	95563	84.4	97.4	ug/L	87
Ethylbenzene		05.30.95	95563	16.6	20.4	ug/L	81
Total Xylene Isomers		05.30.95	95563	98.4	119	ug/L	83
TPH (Gasoline Range)		05.30.95	95563	1180	1100	ug/L	107
4. TPH (8015M/8020)	C5053358*1						
Date Analyzed		05.30.95	95563	05/30/95	05/30/95	Date	N/A
Benzene		05.30.95	95563	15.7	15.2	ug/L	103
Toluene		05.30.95	95563	84.3	97.4	ug/L	87
Ethylbenzene		05.30.95	95563	17.9	20.4	ug/L	88
Total Xylene Isomers		05.30.95	95563	99.7	119	ug/L	84
TPH (Gasoline Range)		05.30.95	95563	1060	1100	ug/L	96
5. TPH (3520/8015M)	C5052668*1						
Date Extracted		05.26.95	9564	05/24/95	05/24/95	Date	N/A
Date Analyzed		05.26.95	9564	05/26/95	05/26/95	Date	N/A
TPH (Diesel Range)		05.26.95	9564	0.776	1.00	mg/L	78
6. TPH (3520/8015M)	C5053113*1						
Date Extracted		05.25.95	9564	05/24/95	05/24/95	Date	N/A
Date Analyzed		05.25.95	9564	05/25/95	05/25/95	Date	N/A
TPH (Diesel Range)		05.25.95	9564	0.823	1.00	mg/L	82

BC ANALYTICAL

ORDER QC REPORT FOR G9505348

DATE REPORTED : 06/01/95

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE DIFF
1. TRPH/CADHS/418.1		05.23.95	9579	3.93	4.04	mg/l	3
2. TPH (8015M/8020)							
Date Analyzed		05.30.95	95563	05/30/95	05/30/95	Date	N/A
Benzene		05.30.95	95563	15.8	15.7	ug/l	1
Toluene		05.30.95	95563	84.4	84.3	ug/L	0
Ethylbenzene		05.30.95	95563	16.6	17.9	ug/L	8
Total Xylene Isomers		05.30.95	95563	98.4	99.7	ug/L	1
TPH (Gasoline Range)		05.30.95	95563	1180	1060	ug/L	11
3. TPH (3520/8015M)							
Date Extracted		05.26.95	9564	05/24/95	05/24/95	Date	N/A
Date Analyzed		05.26.95	9564	05/26/95	05/25/95	Date	N/A
TPH (Diesel Range)		05.26.95	9564	0.776	0.823	mg/L	6

BC ANALYTICAL

ORDER QC REPORT FOR G9505348

DATE REPORTED : 06/01/95

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)	9505348*1						
Date Analyzed		05.30.95	95563	05/30/95	05/30/95	Date	N/A
Benzene		05.30.95	95563	17.9	20.3	ug/L	13
Toluene		05.30.95	95563	95.2	106	ug/L	11
Ethylbenzene		05.30.95	95563	18.6	23.4	ug/L	23
Total Xylene Isomers		05.30.95	95563	109	125	ug/L	14
TPH (Gasoline Range)		05.30.95	95563	1040	1280	ug/L	21
2. TPH (3520/8015M)	9505348*1						
Date Analyzed		05.26.95	9564	05/26/95	05/26/95	Date	N/A
Date Extracted		05.26.95	9564	05/24/95	05/24/95	Date	N/A
TPH (Diesel Range)		05.26.95	9564	0.976	1.04	mg/L	6

BC ANALYTICAL

ORDER QC REPORT FOR G9505348

DATE REPORTED : 06/01/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT	
1. TPH (8015M/8020)	9505348*1							
Benzene		05.30.95	95563	118	134 Q	15.2	ug/l	Q
Toluene		05.30.95	95563	98	109	97.4	ug/l	
Ethylbenzene		05.30.95	95563	91	115	20.4	ug/l	
Total Xylene Isomers		05.30.95	95563	92	105	119	ug/l	
TPH (Gasoline Range)		05.30.95	95563	95	116	1100	ug/l	
2. TPH (3520/8015M)	9505348*1							
TPH (Diesel Range)		05.26.95	9564	93	99	1.05	mg/l	

BC ANALYTICAL

ORDER QC REPORT FOR G9505348

ATE REPORTED : 06/01/95

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

PARAMETER		DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TRPH/CADHS/418.1	B5051353*1	05.23.95	9579	0	0.2	mg/l	418.1
2. TPH (8015M/8020)	B5051732*1						
Date Analyzed		05.30.95	95563	05/30/95	NA	Date	8015M.1X
Benzene		05.30.95	95563	0	0.5	ug/l	8015M.1X
Toluene		05.30.95	95563	0.12	0.5	ug/L	8015M.1X
Ethylbenzene		05.30.95	95563	0	0.5	ug/L	8015M.1X
Total Xylene Isomers		05.30.95	95563	0	0.5	ug/L	8015M.1X
TPH (Gasoline Range)		05.30.95	95563	0	50	ug/L	8015M.1X
3. TPH (3520/8015M)	B5051366*1						
Date Extracted		05.26.95	9564	05/24/95	NA	Date	8015M
Date Analyzed		05.26.95	9564	05/26/95	NA	Date	8015M
TPH (Diesel Range)		05.26.95	9564	0	0.05	mg/L	8015M

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 15:36:51 01 JUN 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9505348*1							
8015M.TX	a,a,a-Trifluorotoluene	95563	05/30/95	51.4	50.0	103	
8015M	Naphthalene	9564	05/26/95	0.0365	0.0500	73	
9505348*2							
8015M	Naphthalene	9564	05/26/95	0.0298	0.0500	60	
8015M.TX	a,a,a-Trifluorotoluene	95563	05/30/95	49.9	50.0	100	
9505348*3							
8015M	Naphthalene	9564	05/26/95	0.0358	0.0500	72	
8015M.TX	a,a,a-Trifluorotoluene	95563	05/30/95	50.5	50.0	101	
9505348*4							
8015M	Naphthalene	9564	05/26/95	0.0948	0.0500	190	
8015M.TX	a,a,a-Trifluorotoluene	95563	05/30/95	48.5	50.0	97	
9505348*5							
8015M	Naphthalene	9564	05/26/95	0.0311	0.0500	62	
8015M.TX	a,a,a-Trifluorotoluene	95563	05/30/95	50.1	50.0	100	
9505348*6							
8015M	Naphthalene	9564	05/26/95	0.0490	0.0500	98	
8015M.TX	a,a,a-Trifluorotoluene	95563	05/31/95	50.0	50.0	100	
9505348*7							
8015M	Naphthalene	9564	05/26/95	0.0295	0.0500	59	
8015M.TX	a,a,a-Trifluorotoluene	95563	05/31/95	49.8	50.0	100	
9505348*8							
8015M.TX	a,a,a-Trifluorotoluene	95563	05/31/95	51.7	50.0	103	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 15:36:51 01 JUN 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
)505348*1*R1							
3015M	TXa,a,a-Trifluorotoluene	95563	05/30/95	51.4	50.0	103	
8015M	Naphthalene	9564	05/26/95	0.0365	0.0500	73	
)505348*1*S1							
8015M.	TXa,a,a-Trifluorotoluene	95563	05/30/95	53.2	50.0	106	
3015M	Naphthalene	9564	05/26/95	0.0318	0.0500	64	
9505348*1*S2							
3015M.	TXa,a,a-Trifluorotoluene	95563	05/30/95	53.8	50.0	108	
3015M	Naphthalene	9564	05/26/95	0.0329	0.0500	66	
9505348*1*T							
3015M.	TXa,a,a-Trifluorotoluene	95563	05/30/95	50.0	50.0	100	
3015M	Naphthalene	9564	05/26/95	0.0500	0.0500	100	
35051366*1*MB							
8015M	Naphthalene	9564	05/26/95	0.0487	0.0500	97	
B5051732*1*MB							
8015M.	TXa,a,a-Trifluorotoluene	95563	05/30/95	51.2	50.0	102	
C5052668*1*LC							
8015M	Naphthalene	9564	05/26/95	0.0460	0.0500	92	
C5052668*1*LT							
8015M	Naphthalene	9564	05/26/95	0.0500	0.0500	100	
C5053113*1*LC							
8015M	Naphthalene	9564	05/25/95	0.0671	0.0500	134	
C5053113*1*LT							
8015M	Naphthalene	9564	05/25/95	0.0500	0.0500	100	
C5053357*1*LC							
8015M.	TXa,a,a-Trifluorotoluene	95563	05/30/95	53.1	50.0	106	
C5053357*1*LT							
8015M	TXa,a,a-Trifluorotoluene	95563	05/30/95	50.0	50.0	100	
C5053358*1*LC							
8015M.	TXa,a,a-Trifluorotoluene	95563	05/30/95	52.9	50.0	106	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
C5053358*1*LT							
8015M.TX	a,a,a-Trifluorotoluene	95563	05/30/95	50.0	50.0	100	

Chain of Custody

Page 1 of 1

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

Forward Results to the Attention of Rebecca Digerness

Texaco Project Corordinator: Tom Hargett

Site Name: Texaco Loc# 624880235
Site Address: 500 Grand Ave. Oakland, CA
Contractor Project Number: 950518-D2
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): MIKE DOLLOGHERY
Sampler Signature:
Date Samples Collected: 5-18-95

624880235
Alameda
FKEP 10146
TWH
G950534 8

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 8010/80	P. Aromatics 8020/602	Organic Lead		
MW-8P		5-18 / 1055	7	VOA Vial	W	HCL	X	X	X						—	1
MW-8G		5-18 / 1120	7				X	X	X						—	2
MW-8H		5-18 / 1145	7				X	X	X						—	3
MW-8I		5-18 / 1230	7				X	X	X						—	4
MW-8J		5-18 / 1210	7				X	X	X						—	5
MW-8K		5-18 / 1020	7				X	X	X						—	6
EB		5-18 / 1030	7				X	X	X						—	7
TB			2				X								—	8

ANALYSIS

Comments

Relinquished by: (Signature)	Mike Dolloghery	Date: 5-19-95	Time: 1430
Relinquished by: (Signature)	Bill Rogers	Date: 5-19-95	Time: 1705
Relinquished by: (Signature)		Date:	Time:
Method of Shipment:			

Received by: (Signature)	Bill Rogers	Date: 5-19-95	Time: 1730
Received by: (Signature)		Date:	Time:
Received by: (Signature)		Date:	Time:
Lab Comments:			

Well Gauging Data

Project Name: 6248802.35
Project Number: 950518-DR

Date: 5-18-95
Recorded By: MIKE D + RANDY

Well ID	TOC Elev.	DTB (ft. TOC)	Well Dia. (in.)	DTP (ft.)	DTW (ft.)	PT (ft.)	Comments
MW-8K		16.70	2		1.36		
* MW-8C		2.42	2		.42	WELL	CASING IS DAMAGED *
MW-8F		14.52	4		8.00		
MW-8G		14.25	4		6.60		
MW-8H		14.86	4		3.53		
MW-8J		14.77	4		5.33		
MW-8I		14.60	4		6.09		

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 500 GRAND AV
Project Number 960518-D2
Recorded By MD
Well No. MW-8F
Well Type ☑ Monitor ☐ Extraction ☐ Other
Sampled by MD
Date 5-18

WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☑ 4-inch ☐ Other
Well Total Depth (TD, ft. below TOC) 14.52
Depth to Water (WL, ft. below TOC) 8.00
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
☑ 3 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type
☑ Pump - Type ELEC SUB
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☑ Near Bottom Depth (ft) 14.0
☐ Other
Pumping Rate 16 gpm

PURGE VOLUME CALCULATION

6.52 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 12.9 gals CALCULATED PURGE VOLUME

13.0 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

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1045 / 4	7.0	10000	66.8		42.2	CLEAR
1046 / 8	6.8	3200	66.2		13.4	
1047 / 13	6.6	3200	66.2		6.5	
/						
/						
/						
/						
/						

Comments during well purge
Well Pumped dry: YES / NO
Purge water storage/disposal ☐ Drummed onsite ☑ Other BTS

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5-18 / 1055
Bailer - Type ☑ TEFLON
Sample port ☐ Other ☐

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type MYRON

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-8F	3 VOAS	GAS BTEX	HCL	BCA	
	2 LITERS AMB	TPH-D			
	2 LITERS UNP	O&G			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	EB @ 10:30
Transfer	
Other:	

Groundwater Sampling Form

Project Name 500 GRAND AV. Well No. MW-8G
Project Number 950518-D2 Well Type [x] Monitor [ ] Extraction [ ] Other
Recorded By MD Sampled by MD Date 5-18-95

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [x] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) 14.25
Depth to Water (WL, ft. below TOC) 6.60
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 elec. sub
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[x] Near Bottom Depth (ft) 14.25
[ ] Other
Pumping Rate 16 gpm

PURGE VOLUME CALCULATION

7.65 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 15.2 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

15.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color/Odor
11:10 / 5.0	6.2	3400	67.2	10.2	
11:11 / 10.0	6.2	4600	66.8	14.0	
11:12 / 15.5	6.2	4600	66.4	14.4	
/					
/					
/					
/					
/					

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5-18-95 11:20
Bailer - Type [x] TEFLON
Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type MYRON

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-8G	3-VOAS	GAS BTEX	HCL	BCA	
	2-LITERS AMBER	TPH-D			
	2-LITERS PINT	O+G			

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 500 GRAND AV. Well No. MW-8H
Project Number 950518-D2 Well Type [x] Monitor [ ] Extraction [ ] Other
Recorded By MD Sampled by MD Date 5-18-95

WELL PURGING

PURGE VOLUME

Well casing diameter
[ ] 2-inch [x] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) 14.86
Depth to Water (WL, ft. below TOC) 3.53
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 Sub.
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[x] Near Bottom Depth (ft) 14.5
[ ] Other

Pumping Rate 16 gpm

PURGE VOLUME CALCULATION

11.33 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 22.4 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

22.5 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON

Time/Gallons	pH	Cond. (uomhos/cm)	Temp [ ] deg C [x] deg F	Turbidity (NTU)	Color/Odor
1135 / 7.0	6.2	4600	68.6	107.5	
1136 / 15.0	6.6	1000	66.6	120.	
1137 / 22.5	6.6	1000	66.8	122.2	
/					
/					
/					
/					
/					

Comments during well purge

Well Pumped dry: YES (NO)

Purge water storage/disposal [ ] Drummed onsite [x] Other BTS

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5-18 / 11:45
Bailer - Type [x] TEFLON
Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type MYRON

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-8H	3-VOAs	GAS BTEX	HCl	BCA	
	2-LITERS AMBR	TPH-D			
	2-LITERS PRES	O&G			

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 500 GRAND AV. Well No. MW - 8I

Project Number 950518-D1 Well Type ☑ Monitor ☐ Extraction ☐ Other

Recorded By MD Sampled by MD Date 5-18-95

WELL PURGING

PURGE VOLUME

Well casing diameter

☐ 2-inch ☑ 4-inch ☐ Other

Well Total Depth (TD, ft. below TOC) 114.60

Depth to Water (WL, ft. below TOC) 6.09

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

Number of well volumes to be purged

☑ 3 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type

☑ Pump - Type ELEC. SUB.

☐ Other

PUMP INTAKE

☐ Near top Depth (ft)

☑ Near Bottom Depth (ft) 14.6

☐ Other

Pumping Rate 16 gpm

PURGE VOLUME CALCULATION

8.5 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 16.8 gals CALCULATED PURGE VOLUME

17.0 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 HYDRON

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1220 / 6.0	6.5	1200	67.6		18.6	
1221 / 12.0	6.5	1200	65.8		17.2	
1222 / 17.0	6.4	1200	66.4		12.6	
/						
/						
/						
/						
/						

Comments during well purge

Well Pumped dry: YES NO

Purge water storage/disposal ☐ Drummed onsite ☑ Other IST S

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5-18/ 12:30

Bailer - Type ☑ TEFLON Sample port ☐ Other ☐

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type HYDRON

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-8I	3-VOAS PRE	GAS, BTEX	HCL	BCA	
	2-LITERS PRE	TPH-D			
	2-LITERS UNP	O&G			

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 500 GRAND AV. Well No. MW-85
Project Number 950518-D2 Well Type ☑ Monitor ☐ Extraction ☐ Other
Recorded By MD Sampled by MD Date 5-18-95

WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☑ 4-inch ☐ Other
Well Total Depth (TD, ft. below TOC) 14.77
Depth to Water (WL, ft. below TOC) 5.33
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
☑ 3 ☐ 10 ☐ Other

PURGE METHOD

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

PUMP INTAKE

☐ Near top Depth (ft)
☑ Near Bottom Depth (ft) 14.5
☐ Other
Pumping Rate 16 gpm

PURGE VOLUME CALCULATION

9.44 (Water Column Length) x .66 (Multiplier) x 3 (No. Vols) = 18.7 gals CALCULATED PURGE VOLUME

19.0 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

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1202 / 6	7.0	10000	66.2		80.4	
1203 / 13	7.0	10000	64.2		57.6	
1204 / 19	7.0	10000	64.2		25.2	
/						
/						
/						
/						
/						

Comments during well purge
Well Pumped dry: YES NO
Purge water storage/disposal ☐ Drummed onsite ☑ Other IDS

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 5-18-95 1210
Bailer - Type ☑ TEFLON
Sample port ☐ Other ☐

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type MYRON

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-85	3-VOA's	GAS BTEX	HCL	SCA	
	2-Liters PRE	TPH-D			
	2-Liters UNP	O+G			

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 500 GRAND
Project Number 950518-DR
Recorded By MD
Well No. MW-8IC
Well Type ☑ Monitor ☐ Extraction ☐ Other
Sampled by MD
Date 5-18-95

WELL PURGING

PURGE VOLUME

Well casing diameter
☑ 2-inch ☐ 4-inch ☐ Other
Well Total Depth (TD, ft. below TOC) 16.70
Depth to Water (WL, ft. below TOC) 1.36
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
☐ 3 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type TEFLON
☐ Pump - Type
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☐ Near Bottom Depth (ft)
☐ Other
Pumping Rate gpm

PURGE VOLUME CALCULATION

15.34 (Water Column Length) x .17 (Multiplier) x 3 (No. Vols) = 7.82 gals CALCULATED PURGE VOLUME

MULTIPLIER (Casing Dia.[inches] = Gallons/linear ft)
2 = 0.17 | 3 = 0.38 | 4 = 0.65 | 4.5 = 0.83 | 5 = 1.02 | 6 = 1.5 | 8 = 2.6

8.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
10:05 / 2.5	7.2	2100	66.2		7200	BROWN
10:08 / 5.0	7.0	1800	65.3		7200	
10:12 / 8.0	7.0	1600	65.5		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 5/18 / 10:20
Bailer - Type ☑ TEFLON
Sample port ☐ Other ☐

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type MYRON

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-18IC	3 VOAs	BTEX	HCl	BCA	
	2 LITERS UNP.	TPH-D			
	2 LITERS PRES	O&G			

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 500 GRAND
Project Number 950518-D2
Recorded By MIKE P
Well No. MW-8L
Well Type [x] Monitor [ ] Extraction [ ] Other
Sampled by PV
Date 5-18-95

WELL PURGING

PURGE VOLUME

Well casing diameter
[x] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC)
Depth to Water (WL, ft. below TOC) 2.42
Depth to free phase hydrocarbons (FP, ft. below TOC)
Number of well volumes to be purged
[ ] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type
[ ] Pump - Type
[ ] Other

PUMP INTAKE

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

PURGE VOLUME CALCULATION

Water Column Length X Multiplier X No. Vols =
gals CALCULATED PURGE VOLUME
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

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
/	NOT SAMPLED					
/						
/						
/	WELL CASING IS DAMAGED					
/	AT A DEPTH OF 2.42					
/						
/						
/						

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /
Bailer - Type [ ]
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

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 #: 6248802.35
Address: 500 GRAND, OAKLAND
City, State, ZIP: OAKLAND, CA

Well I.D.	Gals.	Well I.D.	Gals.
MW-8F1		1	
MW-8G1		1	
MW-8H1		1	
MW-8J1		1	
MW-8K1		1	
1		1	
1		1	
1		1	
1		1	

Total gals. 95

added rinse water 10

Total Gals. Recovered 105

Job #: 950518-D2
Date 5-18-95
Time 13:00
Signature: MP Dellinger

REC'D AT: BTS
Date: 5-18-95
Time: 1630
Signature: MP Dellinger