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ENVIRONMENTAL PROTECTION

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Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

October 25, 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 August 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

Rebecca Digerness
Environmental Assistant

Karen Petryna

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

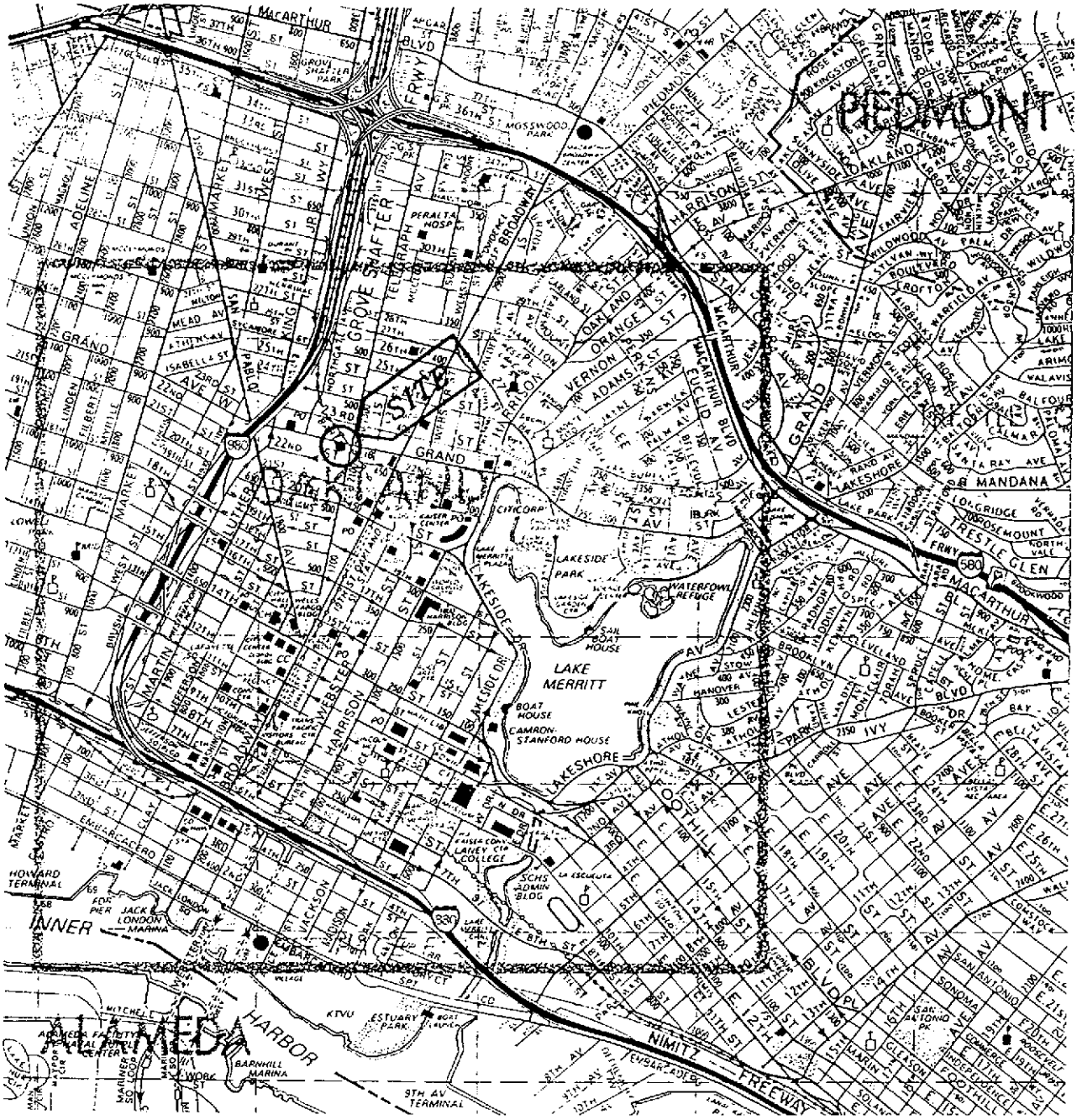
Mr. Michael Faber
Exxon Company, USA
2300 Clayton Road, Suite 1250
Concord, CA 94524-2032

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
Third 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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MILE

1" = 2,250'

TEXACO

REFINING AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

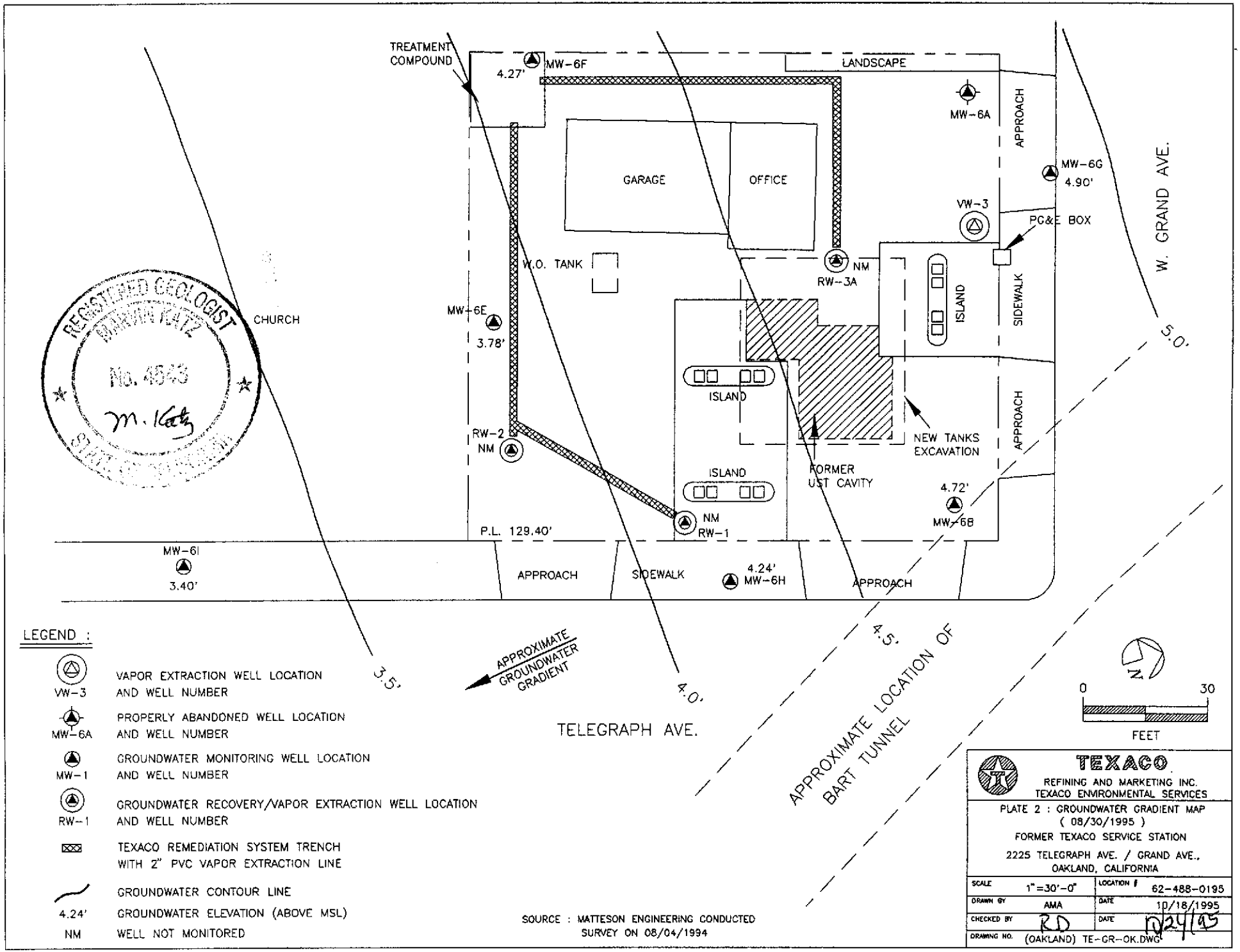
PLATE 1

SITE VICINITY MAP

FORMER TEXACO SERVICE STATION

2225 TELEGRAPH AVE. / GRAND AVE.

OAKLAND, CALIFORNIA



REGISTERED GEOLOGIST
MARVIN KATZ
No. 4543
M. Katz
STATE OF CALIFORNIA

LEGEND :

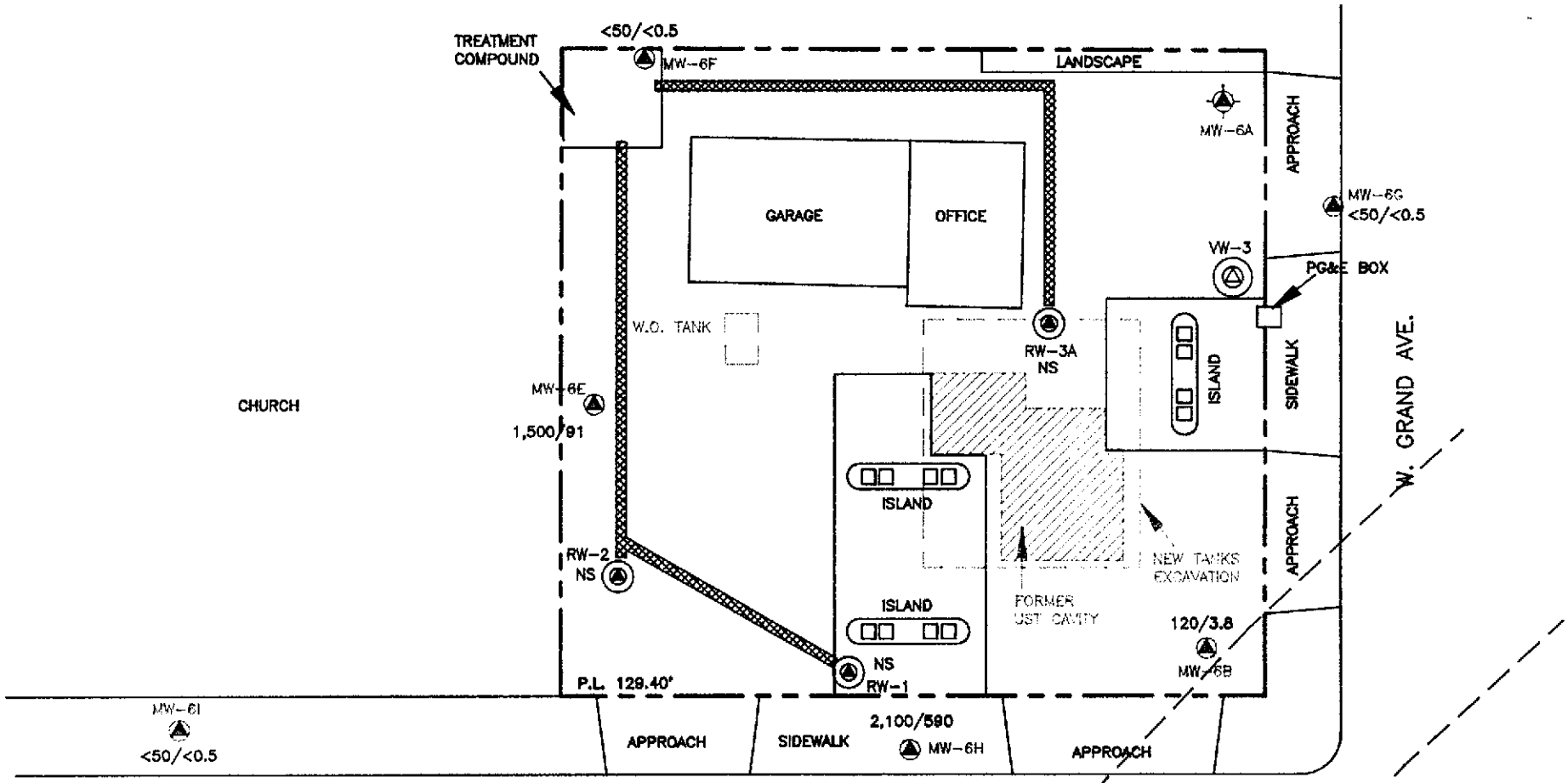
- VW-3 — VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
- MW-6A — PROPERLY ABANDONED WELL LOCATION AND WELL NUMBER
- MW-1 — GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- RW-1 — GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL LOCATION AND WELL NUMBER
- TEXACO REMEDIATION SYSTEM TRENCH WITH 2" PVC VAPOR EXTRACTION LINE
- GROUNDWATER CONTOUR LINE
- 4.24' — 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
(08/30/1995)
FORMER TEXACO SERVICE STATION
2225 TELEGRAPH AVE. / GRAND AVE.,
OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-0195
DRAWN BY	AMA	DATE	10/18/1995
CHECKED BY	RD	DATE	10/24/95
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
(08/30/1995)
FORMER TEXACO SERVICE STATION
2225 TELEGRAPH AVE. / GRAND AVE.,
OAKLAND, CALIFORNIA

SCALE	1"=30'-0"	LOCATION #	62-488-0195
DRAWN BY	AMA	DATE	10/18/1995
CHECKED BY	RD	DATE	10/24/95
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
	8/30/95			12.76	4.72

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

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

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

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

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

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

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

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

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

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

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

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

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

Well Number	Date Gauged	Top of Casing Elevation (feet)		Depth to Water (feet, TOC)	Elevation of Groundwater (feet)
RW-2 (formerly MW-6D)	10/16/90	98.11	*		
	2/25/92			16.27	81.84
	3/25/92				Not Monitored
	6/16/92	14.61	**	12.86	1.75
	9/8/92				Not Monitored
	11/5/92				Not Monitored
	12/14/92				Not Monitored
	1/28/93				Not Monitored
	2/11/93				Not Monitored
	3/9/93				Not Monitored
	4/14/93				Not Monitored
	5/11/93				Not Monitored
	6/17/93				Not Monitored
	8/10/93				Not Monitored
	9/21/93				Not Monitored
	10/27/93				Not Monitored
	11/23/93				Not Monitored
	12/17/93				Not Monitored
	2/16/94				Not Monitored
	5/31/94				Not Monitored
	8/30/94	17.02	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
RW-3 (formerly MW-6C)	8/30/94	18.04	***		Not Monitored
	11/11/94				Not Monitored
	2/27/95				Not Monitored
	5/30/95				Not Monitored
	8/30/95				Not Monitored
* = 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)	MTBE (ppb)
MW-6A			Well Destroyed				
MW-6B	3/25/92	190	31	8.6	84	8.6	NA
	6/16/92	1,700	44	1.7	7.2	230	NA
	9/8/92	2,900	35	8.3	110	330	NA
	11/5/92	1,400	29	<0.5	75	190	NA
	2/11/93	210	1.2	<0.5	2.8	4.3	NA
	5/11/93	570	54	2.4	37	36	NA
	8/10/93	1,300	48	2.4	28	44	NA
	10/27/93	1,300	23	1.7	25	250	NA
	2/16/94	300	16	<0.5	3.5	2.4	NA
	5/31/94	690	21	3.9	11	36	NA
	8/30/94	260	4	0.62	0.82	4	NA
	11/11/94	300	60	2	1.2	2.4	NA
	2/27/95	180	28	2.6	0.65	1.6	NA
	5/30/95	200	23	3.6	0.88	2.3	NA
	8/30/95	**120**	**3.8**	**3.6**	**0.61**	**0.69**	**42**
MW-6E	3/25/92	830	41	1	3.8	16	NA
	6/16/92	3,400	300	23	68	510	NA
	9/8/92	480	27	<0.5	3.6	21	NA
	11/5/92		Not Sampled				NA
	2/11/93	270	15	<0.5	<0.5	8.7	NA
	5/11/93	<50	2.3	<0.5	1.4	3.2	NA
	8/10/93	1,700	130	2.7	23	140	NA
	10/27/93	100	6	<0.5	<0.5	<0.5	NA
	2/16/94	640	45	<0.5	12	15	NA
	5/31/94	52	1.5	0.97	<0.5	<0.5	NA
	8/30/94	920	22	0.98	5.2	33	NA
	11/11/94	910	13	2.4	13	2.5	NA
	2/27/95	<50	1.9	1.3	<0.5	0.83	NA
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/30/95	**1,500**	**91**	**2.3**	**56**	**59**	**11**

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)	MTBE (ppb)
MW-6F	3/25/92	ND	ND	<0.5	<0.5	<0.5	NA
	6/16/92	ND	ND	<0.5	<0.5	<0.5	NA
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/10/93		Not Sampled				NA
	10/27/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/11/94	<50	<0.5	0.54	<0.5	<0.5	NA
	2/27/95	<50	6.2	3.0	0.82	3.5	NA
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-6G	3/25/92	ND	ND	<0.5	<0.5	<0.5	NA
	6/16/92	ND	ND	<0.5	<0.5	<0.5	NA
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/10/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/27/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/11/94	58	0.58	1.6	<0.5	1.6	NA
	2/27/95	<50	0.86	0.99	<0.5	0.51	NA
	5/30/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5	<10

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)	MTBE (ppb)
MW-6H	3/25/92	920	170	52	25	54	NA
	6/16/92	460	31	11	6.8	16	NA
	9/8/92	780	69	23	17	18	NA
	11/5/92	3,400	500	260	85	160	NA
	2/11/93	2,500	410	170	28	130	NA
	5/11/93	4,200	490	270	80	210	NA
	8/10/93	650	83	22	14	29	NA
	10/27/93	1,600	130	90	29	130	NA
	2/16/94	<50	<0.5	<0.5	<0.5	2.9	NA
	5/31/94	1,800	370	220	65	210	NA
	8/30/94	1,900	130	90	19	86	NA
	11/11/94	13,000	1,700	1,400	260	1,800	NA
	2/27/95	320	450	120	28	79	NA
	5/30/95	2,300	960	260	64	200	NA
	8/30/95	2,100	590	35	24	74	50
MW-6I	3/25/92	ND	ND	<0.5	<0.5	<0.5	NA
	6/16/92	ND	ND	<0.5	<0.5	<0.5	NA
	9/8/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/5/92	<50	<0.5	<0.5	<0.5	<0.5	NA
	2/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/11/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/10/93	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/27/93	<50	<0.5	<0.5	<0.5	1.1	NA
	2/16/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/31/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/30/94	<50	<0.5	<0.5	<0.5	<0.5	NA
	11/11/94	53	0.62	1.8	<0.5	2.0	NA
	2/27/95	<50	<0.5	<0.5	<0.5	<0.5	NA
	5/30/95	69	2.8	0.96	1.1	4.3	NA
	8/30/95	<50	<0.5	<0.5	<0.5	<0.5	<10
RW-1	6/16/92	6,200	620	1,400	240	1,400	NA
	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				
	8/30/95		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)	MTBE (ppb)
RW-2 (formerly MW-6D)	3/25/92	NA	NA	NA	NA	NA	NA
	6/16/92	28,000	2,900	1,000	120	2,700	NA
	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					
	8/30/95	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					
	8/30/95	Not Sampled					
MTBE = Methyl-tert-butylether							
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: C95-08-039
Received: 31 AUG 95
Mailed: SEP 8 1995

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

Purchase Order: 94-1446346+4370
Requisition: 624880195
Project: FKEP1015L

CC: Mr. Timothy Ross

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020) Date Analyzed	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range
RDL			1	50	0.5	0.5	0.5	10	0.5	
1*MW-6B	08/30/95	09/01/95	1	120	3.8	3.6	0.61	42	0.69	C6-C12
2*MW-6E	08/30/95	09/01/95	1	1500	91	2.3	56	11	59	C6-C12
3*MW-6F	08/30/95	09/01/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
4*MW-6G	08/30/95	09/01/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
5*MW-6H	08/30/95	09/01/95	5	2100	590	35	24	50	74	C6-C12
6*MW-6I	08/30/95	09/01/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12

B C Analytical

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

ANALYTICAL REPORT

LOG NO: C95-08-039

Received: 31 AUG 95

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

Purchase Order: 94-1446346+4370

Requisition: 624880195
Project: FKEP1015L

CC: Mr. Timothy Ross

REPORT OF ANALYTICAL RESULTS

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020) Date Analyzed Date	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Methyl-tert-butylether ug/L	Total Xylenes Isomers ug/L	Carbon Range
RDL			1	50	0.5	0.5	0.5	10	0.5	
7*EB	08/30/95	09/01/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12
8*TB	08/30/95	09/02/95	1	<50	<0.5	<0.5	<0.5	<10	<0.5	C6-C12

Karen Petryna
2225 Telegraph Ave., Oakland
Alameda County

Maria Adriance, Project Manager

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

: ORDER PLACED FOR CLIENT: Texaco Environmental Services 9508039 :
: BC ANALYTICAL : COND LAB : 15:43:39 08 SEP 1995 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9508039*1	MW-6B	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*2	MW-6E	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*3	MW-6F	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*4	MW-6G	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*5	MW-6H	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*6	MW-6I	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*7	EB	GAS.BTX.TESNC	09.01.95	8015M.TX	516-20	958160	8607
9508039*8	TB	GAS.BTX.TESNC	09.02.95	8015M.TX	516-20	958160	8607

***

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 C9508039

DATE REPORTED : 09/08/95

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER		DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH	C509003*1						
Date Analyzed		09.01.95	958160	09/01/95	09/01/95	Date	N/A
Benzene		09.01.95	958160	22.1	20.0	ug/L	111
Toluene		09.01.95	958160	22.1	20.0	ug/L	111
Ethylbenzene		09.01.95	958160	22.6	20.0	ug/L	113
Methyl-tert-butylether		09.01.95	958160	21.0	20.0	ug/L	105
Total Xylene Isomers		09.01.95	958160	67.8	60.0	ug/L	113
TPH (Gasoline Range)		09.01.95	958160	1090	1000	ug/L	109
a,a,a-Trifluorotoluene	Rep.	09.01.95	958160	49.8	50.0	ug/L	100
a,a,a-Trifluorotoluene	Th.	09.01.95	958160	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR C9508039

DATE REPORTED : 09/08/95

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH	9508038*1						
Benzene		09.01.95	958160	112	108	20.0	ug/L
Toluene		09.01.95	958160	112	107	20.0	ug/L
Ethylbenzene		09.01.95	958160	114	106	20.0	ug/L
Methyl-tert-butylether		09.01.95	958160	127	120	20.0	ug/L
Total Xylene Isomers		09.01.95	958160	114	104	60.0	ug/L
TPH (Gasoline Range)		09.01.95	958160	108	110	1000	ug/L
a,a,a-Trifluorotoluene Rep.		09.01.95	958160	98	104	50.0	ug/L
a,a,a-Trifluorotoluene Th.		09.01.95	958160	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR C9508039

DATE REPORTED : 09/08/95

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH	9508038*1						
Date Analyzed		09.02.95	958160	09/02/95	09/02/95	Date	N/A
Benzene		09.02.95	958160	22.3	21.6	ug/L	3
Toluene		09.02.95	958160	22.3	21.4	ug/L	4
Ethylbenzene		09.02.95	958160	22.8	21.2	ug/L	7
Methyl-tert-butylether		09.02.95	958160	25.3	24.0	ug/L	5
Total Xylene Isomers		09.02.95	958160	68.1	62.5	ug/L	9
TPH (Gasoline Range)		09.02.95	958160	1080	1100	ug/L	2
a,a,a-Trifluorotoluene Rep.		09.02.95	958160	49.1	52.0	ug/L	6
a,a,a-Trifluorotoluene Th.		09.02.95	958160	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR C9508039

)ATE REPORTED : 09/08/95

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

)ARAMETER		DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH	B509002*1						
Date Analyzed		09.01.95	958160	09/01/95	NA	Date	8015M.TX
Benzene		09.01.95	958160	0	0.5	ug/L	8015M.TX
Toluene		09.01.95	958160	0.072	0.5	ug/L	8015M.TX
Ethylbenzene		09.01.95	958160	0	0.5	ug/L	8015M.TX
Methyl-tert-butylether		09.01.95	958160	0	NA	ug/L	8015M.TX
Total Xylene Isomers		09.01.95	958160	0.080	0.5	ug/L	8015M.TX
TPH (Gasoline Range)		09.01.95	958160	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Rep.	09.01.95	958160	50.4	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene	Th.	09.01.95	958160	50.0	NA	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : CORD LAB : 15:45:01 08 SEP 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9508039*1							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	58.4	50.0	117	
9508039*2							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	58.4	50.0	117	
9508039*3							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	51.0	50.0	102	
9508039*4							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	51.4	50.0	103	
9508039*5							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	56.0	50.0	112	
9508039*6							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	51.3	50.0	103	
9508039*7							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	50.2	50.0	100	
9508039*8							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/02/95	51.8	50.0	104	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : CORD LAB : 15:45:28 08 SEP 1995 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9508039*1							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	58.4	50.0	117	
9508039*2							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	58.4	50.0	117	
9508039*3							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	51.0	50.0	102	
9508039*4							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	51.4	50.0	103	
9508039*5							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	56.0	50.0	112	
9508039*6							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	51.3	50.0	103	
9508039*7							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/01/95	50.2	50.0	100	
9508039*8							
8015M.TX	a,a,a-Trifluorotoluene	Re958160	09/02/95	51.8	50.0	104	

C9508039

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: 950830-L1
Contractor Name: Blaine Tech Services, Inc.
Address: 985 Timothy Dr., San Jose, CA 95133
Project Contact: Jim Keller
Phone/FAX: (408) 995-5535 / (408) 293-8773

Laboratory: B C Analytical
Turn Around Time: normal (10 day)
Samplers (PRINT NAME): LAD B OLVER
Sampler Signature: Lad B Olver
Date Samples Collected: 8-30-95

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	MTBE		
MW-6B		8-30/1215	3	40ml		HCL	X								X		-1
MW-6E		1125	3	HCL			X								X		-2
MW-6F		1030	3	VOA			X								X		-3
MW-6G		1110	3				X								X		-4
MW-6H		1235	3				X								X		-5
MW-6I		1200	3				X								X		-6
EB		1040	3				X								X		-7
TB			2				X										-8

ANALYSIS

cooler temp: 6°
sample cond: good

624880195
Alameda
KEP
Comments: FKEP1015L
cc: Tim Ross

Relinquished by: (Signature) Lad B Olver	Date:	Time:	Received by: (Signature) Bill Lyons	Date: 8-31-95	Time: 1305
Relinquished by: (Signature) Bill Lyons	Date: 8-31-95	Time: 1400	Received by: (Signature) Kimberly Gray	Date: 8/31/95	Time: 4:07
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Method of Shipment:			Lab Comments:		

Well Gauging Data

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

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

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

TOC = Top of casing
DTB = Depth to bottom in feet below TOC
DTP = Depth to product in feet below TOC
DTW = Depth to water in feet below TOC
PT = Product thickness in feet

Groundwater Sampling Form

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

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

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

WELL PURGING

PURGE VOLUME

Well casing diameter

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

Well Total Depth (TD, ft. below TOC) 18.06

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

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

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[X] Bailer - Type TEFLON

[ ] Pump - Type

[ ] Other

PUMP INTAKE

[X] Near top Depth (ft) 15.

[ ] Near Bottom Depth (ft)

[ ] Other

Pumping Rate 0.5 gpm

PURGE VOLUME CALCULATION

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

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

3. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

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

Comments during well purge

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 / 1215

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

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

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

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
MW-6B	40ml	TPH6	HCL	BCA	
		BTEX			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Groundwater Sampling Form

Project Name TEXACO 6A880195 Well No. MW-6E

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

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

WELL PURGING

PURGE VOLUME

Well casing diameter

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

Well Total Depth (TD, ft. below TOC) 19.42

Depth to Water (WL, ft. below TOC) 13.85

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

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type

[X] Pump - Type BTS MIDDLEBURG

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 18.

[ ] Other

Pumping Rate 1 gpm

PURGE VOLUME CALCULATION

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

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

11.0 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

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

Comments during well purge

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 1125

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

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

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

SAMPLING PROGRAM

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

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

C + L

Groundwater Sampling Form

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

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

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

WELL PURGING

PURGE VOLUME

Well casing diameter

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

Well Total Depth (TD, ft. below TOC) 19.68

Depth to Water (WL, ft. below TOC) 14.31

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

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type

[X] Pump - Type BTS MIDDLEBURG

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 18.0

[ ] Other

Pumping Rate 1. gpm

PURGE VOLUME CALCULATION

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

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

11. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

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

Comments during well purge

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 / 1030

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

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

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

SAMPLING PROGRAM

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

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Groundwater Sampling Form

Project Name TEX#6248195 Well No. MW-6H

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

Recorded By CADDOVER Sampled by CAD Date 8-30-95

WELL PURGING

PURGE VOLUME

Well casing diameter

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

Well Total Depth (TD, ft. below TOC) 19.76

Depth to Water (WL, ft. below TOC) 12.34

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

Number of well volumes to be purged

[ ] 3 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer - Type

[X] Pump - Type BTS MIDDLEBURG

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 18.

[ ] Other

Pumping Rate 1< gpm

PURGE VOLUME CALCULATION

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

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

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

15. gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-C

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

Comments during well purge

Well Pumped dry: YES (NO)

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 1235

Bailer - Type [ ] SS. Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

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

SAMPLING PROGRAM

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

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

C

Groundwater Sampling Form

Project Name TEX# 624880 195 Well No. MW-6 I

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

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

WELL PURGING

PURGE VOLUME

Well casing diameter

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

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

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

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

Number of well volumes to be purged

[X] 3 [ ] 10 [ ] Other

PURGE METHOD

[X] Bailer - Type TEFLON

[ ] Pump - Type

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 15

[ ] Other

Pumping Rate 0.5 gpm

PURGE VOLUME CALCULATION

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

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

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

13 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENT

Meter Type MYRON-L

Time/Gallons	pH	Cond. (uomhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color/Odor
1140 / 5.	7.3	800.	64.8		43.	
1148 / 9.	7.2	860.	64.4		157.	
1156 / 13.	7.2	860.	64.8		7200.	
/						
/						
/						
/						
/						

Comments during well purge

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

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 8-30-95 / 1200

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

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

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

SAMPLING PROGRAM

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

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 #: 624880195
Address: 2225 TELEGRAPH AVE
City, State, ZIP: OAKLAND, CA

Well I.D.	Gals.	Well I.D.	Gals.
MW-6I		/	
/		/	
/		/	
MW-6I	68	/	
/		/	
/		/	
/		/	
/		/	
/		/	
/		/	

Total gals. _____

added rinse water 10

Total Gals. Recovered 78

Job #: 950830-L1
Date: 8-30-95
Time: 900
Signature: [signature]

REC'D AT: BTS
Date: 8-30-95
Time: 1830
Signature: [signature]