

Texaco USA

10 Universal City Plaza PO Box 3756 Los Angeles CA 90051-1756

CALIFORNIA REGIONAL WATERO

August 10, 1988

AUG 15 1988

QUALITY CONTROL BOARD

Mr. Greg Zentner California Regional Water Quality Control Board San Francisco Bay Region 1111 Jackson St., Rm. 6040 Oakland, CA 94607

Dear Greg:

Enclosed is our Biannual Environmental Assessment Status Report dated July, 1988 for our former service station site located at 3940 Castro Valley (CA. 10.1.4)

We will continue biannual monitoring of water levels and laboratory water analyses to document the natural degradation of hydrocarbons at this site.

Please advise if you do not concur.

Very truly yours,

R. ROBLES

n roble

Environmental Protection Coordinator

RR:dlc 1009.1-4N

Encls.

cc: Craig Mayfield

Alameda County Flood Control Control and Water Conservation District Water Resources Management, Zone 7

5997 Parkside Drive Pleasanton, CA 94566

Fax: (415) 685-9148



July 27, 1988

Job No. 203 150 4080

Mr. Robert R. Robles Texaco Refining and Marketing Inc. 10 Universal City Plaza Universal City, CA 91608

SUBJECT: Former Texaco Service Station

3940 Castro Valley Boulevard Castro Valley, California

Dear Mr. Robles:

Please find enclosed the Biannual Status Report prepared by Groundwater Technology, Inc. (GTI) for the Texaco Service Station located at 394Q Castro Valley Boulevard in Castro Valley, California. The report covers the period from January to June 1988.

Based on the results and findings presented in this report, GTI recommends continuing the biannual monitoring and sampling program to document the natural degradation of concentrations of hydrocarbons underlying the site. The hydrocarbon concentration decreases observed over this period are possibly related to a combination of low groundwater levels and natural hydrocarbon degradation.

Mr. Robert Robles July 27, 1988 Page 2

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If you have any questions or require additional information, please contact us at our Concord office at your convenience.

Sincerely, GROUNDWATER TECHNOLOGY, INC.

Jan Prasil

Project Geologist

Amy Sager Patton

Project Hydrogeologist

Lynn E. Pera

Registered Civil Engineer

No. 33431

JP:ASP:LEP:tls

Enclosure

L4080C.JP





BIANNUAL STATUS REPORT

FORMER TEXACO SERVICE STATION

3940 CASTRO VALLEY BOULEVARD

CASTRO VALLEY, CALIFORNIA

July 27, 1988

Prepared for:

Mr. Robert R. Robles
Texaco Refining and
Marketing Inc.
10 Universal City Plaza
Universal City, CA 91608

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R 203 150 4080 B

prepared by:

GROUNDWATER TECHNOLOGY, INC. 4080 Pike Lane, Suite D Concord, CA 94520

Jan Prasil Project Geologist

Qua SPeth

Amy S. Patton Project Hydrogeologist

Lynn E. Pera Registered Civil Engineer

No. 33431

BIANNUAL STATUS REPORT

FORMER TEXACO SERVICE STATION

3940 CASTRO VALLEY BOULEVARD

CASTRO VALLEY, CALIFORNIA

JULY, 1988

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JULY 27, 1988

GROUNDWATER TECHNOLOGY, INC. CONCORD, CALIFORNIA

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BIANNUAL STATUS REPORT

FORMER TEXACO SERVICE STATION

3940 CASTRO VALLEY BOULEVARD

CASTRO VALLEY, CALIFORNIA

July 27, 1988

INTRODUCTION

This report presents the most recent results of the biannual monitoring and sampling program for the former Texaco Service Station located at 3940 Castro Valley Boulevard in Castro Valley, California. The report covers the period from January through June 1988.

WORK PERFORMED

The work performed during this reporting period included the monitoring and sampling of groundwater monitoring wells MW-1, MW-2 and MW-3 for laboratory analyses on June 7, 1988. The previous monitoring and sampling round was implemented on December 30, 1987.

GROUNDWATER MONITORING AND GROUNDWATER GRADIENT

The June 1988 monitoring data (Appendix I) indicated that the present water table is approximately 21- to 24-feet below grade. The water table elevations in June 1988 reflected a decline of approximately 1.5 feet in wells MW-1 and MW-2, and an



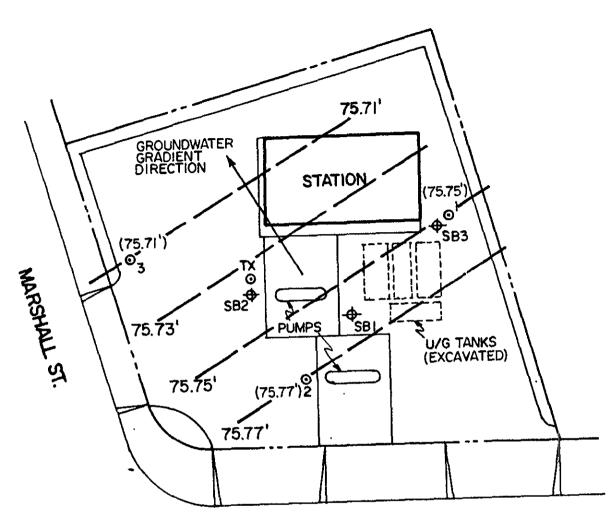
increase of approximately 1.5 feet in well MW-3. Well TX remained dry during this period and was not available for sampling. As determined by the June 7, 1988 monitoring data, the groundwater flow across the site is to the north at a gradient of approximately 0.1 percent (Figure 1). The previous monitoring data, from December 1987, indicated a gradient of approximately 5 percent in a northwest direction.

GROUNDWATER SAMPLING AND ANALYSES

On June 7, 1988, groundwater samples were collected, subsequent to purging, from the three monitoring wells MW-1, MW-2, and MW-3 on site. Rinsate-blanks, containing a sample of the distilled rinsate water from the cleaned surface sampler, were collected prior to each sampling as part of a Quality Assurance/ Quality Control (QA/QC) Program. The water samples were placed in 40-milliliter glass vials with Teflon^R septum caps, then labeled and transported on ice to a state-certified laboratory and accompanied by a chain-of-custody manifest at all times. All well samples and a randomly chosen rinsate-blank (MW-2B) were analyzed using U.S. Environmental Protection Agency (EPA) Methods 5030/8015/8020 for total petroleum hydrocarbons (TPH)-as-gasoline with benzene, toluene, ethylbenzene, and xylenes distinctions (Appendix II).

A comparison of the December 1987 water sample analyses with the recent June 1988 results (Figure 2 and Table 1) shows a decrease in TPH-as-gasoline concentrations in well MW-1 from 2,100 parts per billion (ppb) to 290 ppb, and in well MW-2 from 2,400 ppb to 1,200 ppb. The June 1988 TPH-as-gasoline concentration in well MW-3 remained below Practical Quantitation Levels (PQL) as it was in December 1987.





CASTRO VALLEY BLVD.

LEGEND

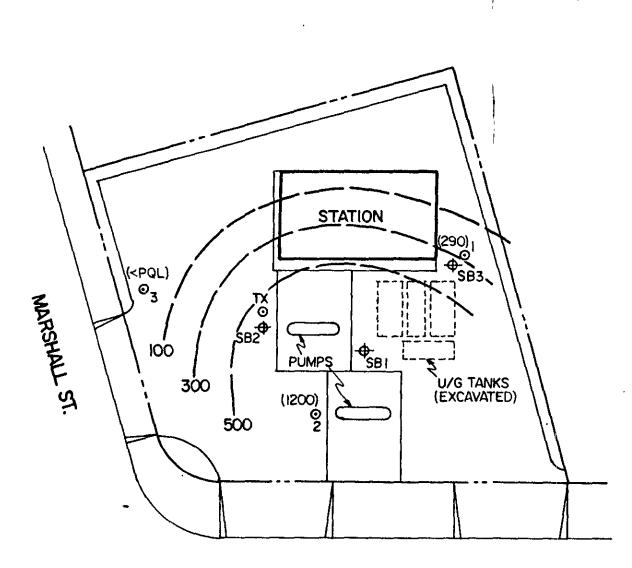
- O MONITORING WELL
- SOIL BORING
 - GROUNDWATER CONTOUR
 - RELATIVE GROUNDWATER ELEVATION (FT.)

FIGURE I GROUNDWATER GRADIENT MAP
6/7/88

TEXACO REFINING 8 MARKETING INC. CASTRO VALLEY, CALIFORNIA







CASTRO VALLEY BLVD.

LEGEND

- **O** MONITORING WELL
- SOIL BORING
- () TPH CONCENTRATION IN WATER (ppb)
 - -CONCENTRATION CONTOUR

FIGURE 2
TPH-AS-GASOLINE CONCENTRATION MAP (ppb)
6/7/88

TEXACO REFINING 8 MARKETING INC. CASTRO VALLEY, CALIFORNIA





GROUNDWATER TECHNOLOGY

TABLE 1 DISSOLVED TOTAL PETROLEUM HYDROCARBONS-AS-GASOLINE CONCENTRATIONS (ppb)

December 1987 - June 1988

Date Sampled	MW ^a -1	MW-2	MW-3
12/30/87	2,100	2,400	<pql<sup>b</pql<sup>
06/07/88	290	1,200	<pql< td=""></pql<>

aMW = Monitoring Well

b<PQL = Less Than Practical Quantitation Levels

SUMMARY

The June 7, 1988 groundwater monitoring data indicated that the direction of groundwater flow at the site is to the north at a gradient of approximately 0.1 percent. The extent of subsurface hydrocarbons appears to be limited to the area of the former underground tanks and pump islands. The concentrations of dissolved hydrocarbons have decreased significantly since December 1987. Dissolved hydrocarbons were not detected in MW-3.

CLOSURE

We are pleased to have been of service to Texaco Refining and Marketing Inc. We trust this report provides the information needed at this time.

APPENDIX I GROUNDWATER MONITORING DATA

PROJECT: TEXACO/CASTRO VALLEY JOB NUMBER: 203 150 4080 DATE: JULY, 1988

		MW-1	MW-2	MM-3
DATE	ELEV. (FT)	99.10	99.60	96.80
12/30/87	DTW DTP PT	21.82 - 0	22.30	22.60
06/07/88	DTW DTP PT	23.35 - 0	23.83 - 0	21.09 0

DTW = Depth To Water
DTP = Depth To Product
PT = Product Thickness

ELEV = Relative Elevation of Well Head

MW = Monitoring Well

MD4080B



APPENDIX II

LABORATORY REPORT

AND

CHAIN-OF-CUSTODY MANIFEST



Western Region

(415) 685-7852

4080-C Pike Lane

Concord, CA 94520

(800) 544-3422 from inside California

(800) 423-7143 from outside California

06/20/88 mh

Page 1 of 1

CLIENT:

Jan Prasil

Groundwater Technology, Inc.

4080 Pike Lane

Concord, CA 94520

PROJECT#: 203-199-4080-8

LOCATION: 3940 Castro Valley Road

Castro Valley, CA

SAMPLED: 06/07/88

BY: J. Prasil

RECEIVED: 06/08/88 ANALYZED: 06/15/88 BY: J. Floro BY: E. Popek

MATRIX:

Water

TEST RESULTS

UNITS: ppb

COMPOUNDS	LAB # I.D.#	1 24768 1 MW-1	1 24769 1 MW-2	1 24770 I I MW-2 B I	24771 MW-3	l I
Benzene		37	220	(PQL	(PQL.	
Toluene		(PQL	(PQL	(PGL	(PGL.	
Ethylbenzene		(PQL	32	(PQL	(PQL	
Xylenes		17	46	(PQL	(PQL	
Total BTEX		54	300	(PQL	(PQL	•
Total Petroleum Hydrocarbons as Gasoline		290	1200	(PQL	(PQL.	

PQL = Less than Practical Quantitation Levels as per EPA Federal Register, November 13, 1985, p. 46906.
Results rounded to two significant figures.
METHOD:
Modified EPA 5030/8020/8015.

SAFY KHALIPA, Ph.D., Dyrector

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

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