

Texaco USA

10 Universal City Plaza Universal City CA 91608-1097

May 19, 1988

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 the Environmental Assessment Report for our former service station site located at 3940 Castro Valley, CA. All underground storage tanks were removed and soils were aerated on site in 1985 and into 1986.

This report indicates that hydrocarbon levels of all current soil samples are either non-detectable or below 14 PPM TPH. Although water samples indicate levels of dissolved hyudrocarbons, we feel this in part is influenced by the fact that wells are screened from - 5' to bottom of wells.

Based on all available information, I propose 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,

a Roblem

R. ROBLES

Environmental Protection

Coordinator

RR:dlc 1901.1-4N Encls.

CC: Craig Mayfield Alameda County Flood Control Control and Water Conservation Dist. Water Resources Mgmt., Zone 7 5997 Parkside Drive Pleasanton, CA 94566

Amy Patton Groundwater Technology, Inc. 4080 Pike Lane, Suite 1

More investigation is needed.

Concord, CA 94520

56H 4/10/89



CONTAMINATION ASSESSMENT REPORT TEXACO SERVICE STATION 3940 CASTRO VALLEY ROAD CASTRO VALLEY, CALIFORNIA FEBRUARY 1988

prepared for:

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Prepared by:

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Jam E. Pla

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CONTAMINATION ASSESSMENT REPORT TEXACO SERVICE STATION 3940 CASTRO VALLEY BLVD. CASTRO VALLEY, CALIFORNIA FEBRUARY 1988

INTRODUCTION

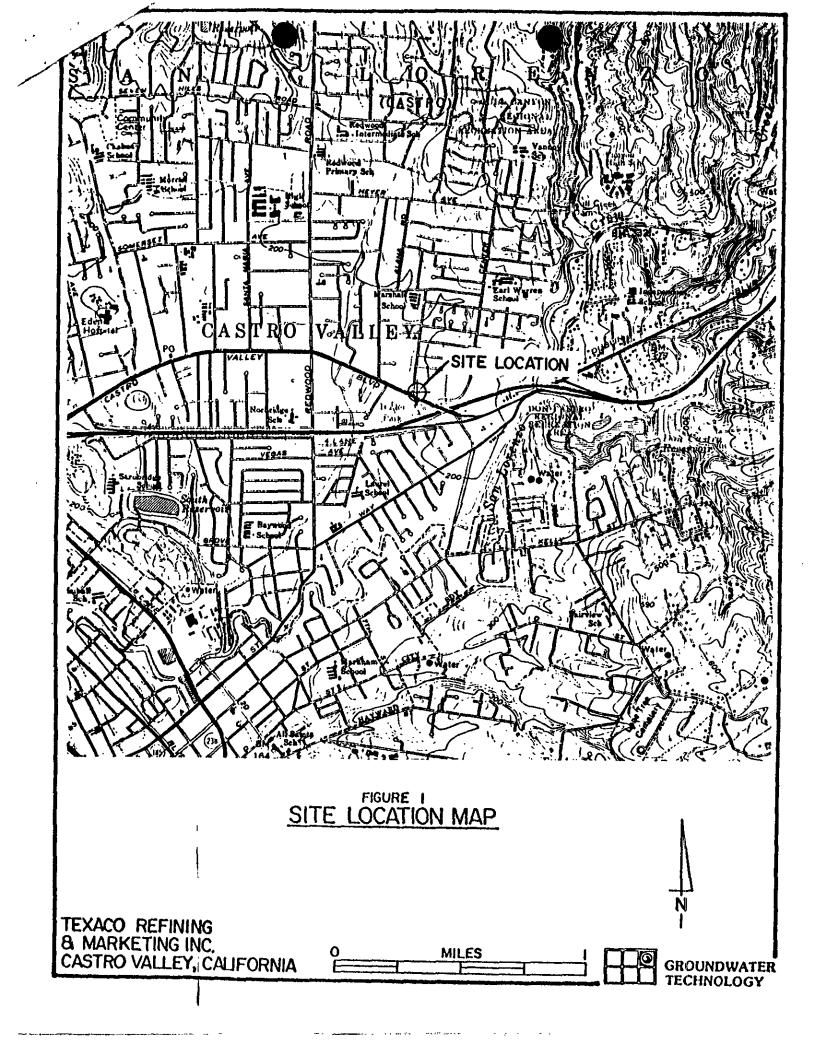
This report presents the results of the contamination assessment conducted at the Texaco Service Station located at 3940 Castro Valley Blvd. in Castro Valley, California (See Figure 1, Site Location Map). This investigation was authorized by Mr. Patrick Donahue of Texaco Refining and Marketing Inc., on November 11, 1987.

BACKGROUND

SITE SETTING

The site is situated in Alameda County, along the eastern edge of the San Francisco Bay, in a mixed residential and light commercial area within the City of Castro Valley. A VIP gasoline station is in operation approximately 400-feet west of the site.





Geographically, the site is located in Castro Valley Basin, approximately 2-miles south of San Leandro Hills and 1-mile west of Walpert Ridge. A nameless creek and San Lorenzo Creek flow approximately 1/4-mile to the west and 1/2-mile to the east of the site, respectively. The site elevation is approximately 195-feet above sea level and the surface topography slopes to the northwest.

PREVIOUS WORK

A PetroTite^R test was performed on the sites' underground tanks by Petroleum Engineering, Inc. of Santa Rosa, California, in September 1984. At that time, the test results indicated that all tanks were tight. Two 6,000-gallon, and two 4,000-gallon gasoline tanks were removed from the site in June, 1985. This was due to demolition of the station and discontinuation of onsite storage.

Soil samples collected by Blaine Tech Services from the tank pit excavation in July of 1985, indicated the presence of 6,500 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPH). This prompted further excavation of soils around the tank area. Additional soil samples collected from the tank pit and analyzed by Trace Analysis Laboratory in October, 1985, indicated the presence of 15 to 7,900 ppm TPH. A monitoring well (TX) was installed in December, 1985, by Winter Petroleum Service, Inc. of San Jose, California, downgradient of the tank pit in the vicinity of the pump island. Soil samples collected during drilling showed 6 to 38 ppm TPH as gasoline at 20 and 25 feet below surface.

How determined?

GROUNDWATER TECHNOLOGY, INC o Evaluated data obtained from the above work steps and information about the presence of nearby water wells to assess the site sensitivity as well as the potential impact of any existing hydrocarbons.

SOIL BORINGS

Two soil borings were drilled on November 20, 1987 adjacent to the former underground pit. A third soil boring was drilled close to the old monitoring well (TX) at the site (See Figure 2, Site Plan). The purpose of the borings was to investigate the presence of subsurface hydrocarbons and to help define the vertical and lateral extent of adsorbed hydrocarbons, should any be found.

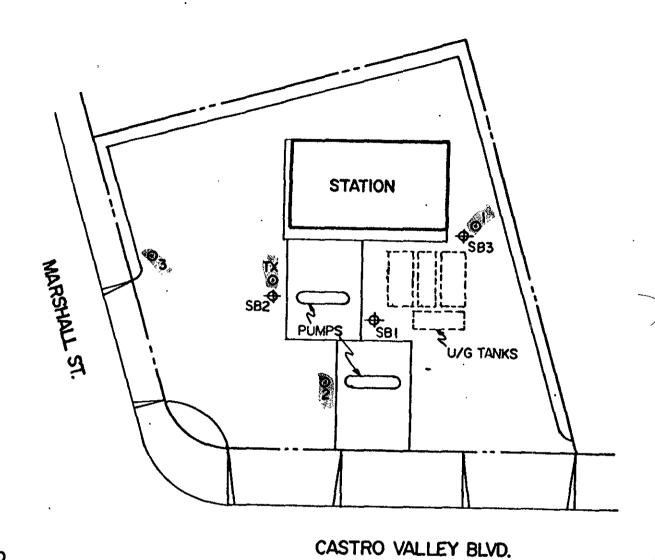
The borings were drilled 35-feet below grade with a truck-mounted drill rig, using 7.5-inch outside-diameter, (0.D.) hollow-stem augers. The drilling was performed under the direction of a field geologist, who also maintained a continuous log of the materials encountered (See Appendix I, Drill Logs). After drilling, the soil borings were backfilled with concrete, according to local regulatory agency specification.

MONITORING WELL CONSTRUCTION

Three monitoring wells, MW-1, MW-2 and MW-3, were installed on December 16 and 17, 1987 to depths of 45, 38 and 40 feet, respectively, to investigate and monitor the presence of dissolved hydrocarbons, if present. (See Figure 2, Site Plan).

The wells were drilled with a truck-mounted drill rig, using 10.5-inch O.D. hollow-stem augers. Drilling was performed under direction of a field geologist who maintained a continuous log of





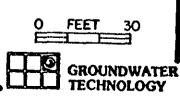
LEGENO

O MONITORING WELLS

SOIL BORING

FIGURE 2 SITE PLAN

TEXACO REFINING & MARKETING INC. CASTRO VALLEY, CALIFORNIA



materials encountered. Wells MW-1, MW-2 and MW-3 were constructed of 40-, 30- and 35-feet of 0.020-inch, machine-slotted, four-inch-diameter PVC screen, respectively, and 5-, 3- and 5-feet of four-inch-diameter blank PVC casing, respectively. The annular space around the well screen was packed with No. 2 Lapis Luster Sand. The sand pack was installed to 1-foot above the top of the well-screened intervals in each well. Each well was finished with a 1-foot bentonite seal overlain with concrete to the surface where locking caps and watertight, traffic-rated street boxes were installed to provide access (See Appendix I, Drill Logs).

SOIL SAMPLING

Soil samples were obtained during the drilling of the soil borings and monitoring wells, using a 2.5-inch-diameter split-spoon sampler lined with three 2-inch-diameter by 6-inch-long, brass sample tubes. Samples were obtained at approximately 5-foot intervals, beginning at 3.5- to 5.0-feet below the ground surface in each boring. Selected samples were sealed, labeled, and placed on ice in an insulated cooler for delivery to a laboratory for analysis. A chain-of-custody manifest was maintained with the samples at all times.

WATER SAMPLING

One water sample was collected from soil boring SB-3, before the boring was sealed. After the monitoring wells were drilled and developed, groundwater samples were again collected. Prior to sampling, each well was purged of approximately 5 well volumes. The samples were obtained with an EPA-approved Teflon^R



sampler and placed in glass vials with Teflon^R caps in such a way that no air was trapped inside. The samples were labeled and placed on ice in an insulated cooler along with properly completed chain-of-custody forms and delivered to the laboratory for analysis. Water samples were analyzed for BTEX and TPH as gasoline by U.S. Environmental Protection Agency (EPA) Method 5030/8015/8020.

SITE CONDITIONS

GEOLOGY

The Castro Valley Basin is underlain by the Cretaceous Chico Formation of Lawson. The Chico Formation of Lawson is composed of biotitic, arkosic sandstone and clay shale, with major amounts arenaceous shale, siltstone and conglomerate. The formation is at least 2,000-feet thick and may be as thick as 6,000 feet.

The late Pleistocene and Holocene-Quaternary age alluvium overlies the Chico Formation of Lawson and consists of irregularly interbedded clay, silt, sand and gravel. Maximum thickness approaches 80 feet. The soil underlying the site, as encountered in the soil borings to the depth of 45 feet consisted of, brown and gray sandy, silty clay with irregularly bedded layers of brown, clayey, silty sand and brown, silty, clayey sand.

HYDROGEOLOGY

The study area is located within the Castro Valley groundwater basin. The Chico Formation of Lawson basement consolidated rocks are considered non-water-bearing due to poor water yield.



The younger Quaternary sediments present beneath the study site consist of sand, silt and clay, and are the major water-bearing units in this area. Groundwater in these unconsolidated sediments is mainly unconfined. The eastern and northern slopes of the Castro Valley are principal recharge areas with low rates of recharge. Regional groundwater flow is generally to the southwest with outflow probably to Santa Clara Valley. The site is not located within a major groundwater basin.

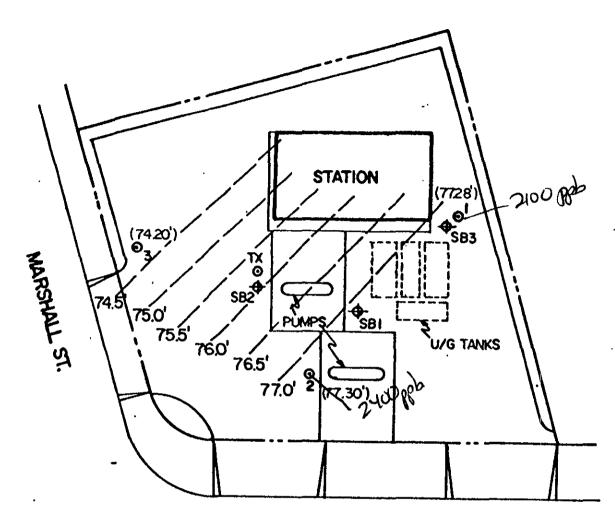
The borings drilled for this investigation encountered groundwater 23.5- to 35-feet below grade. The static level of groundwater monitored in wells on site was approximately 22.5 feet below grade in December 1987. The groundwater direction, as determined by the December monitoring data, was to the northwest (See Figure 3, Groundwater Gradient Map). A summary of the well-gauging data is provided in Appendix II, Well Gauging Data.

WELL SURVEY

A well survey of the area surrounding the station was conducted to assess the sensitivity of the site. Using records from the California Department of Water Resources in Sacramento, no registered water wells were recorded within a 1/4-mile radius of the site.

The pre-existing monitoring well (TX) at the Texaco Service Station was recorded to be 25-feet deep. The well was constructed with 10 feet of 0.010-inch, slot-size, two-inch-diameter PVC screen, and 15 feet of blank PVC casing. The annular space around the well screen was packed with pea gravel.





CASTRO VALLEY BLVD.

LEGEND

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

FIGURE 3
GROUNDWATER GRADIENT MAP
12/30/87

TEXACO REFINING & MARKETING INC. CASTRO VALLEY, CALIFORNIA





The gravel pack was installed to 5-feet above the top of the screened intervals. The annular space above the gravel pack was sealed with 10 feet of concrete. In November, 1987, a technician monitored this well and found it to be dry, recovering only silt, sand and clay from its' base at 21 feet, indicating a possible.

SUBSURFACE CONDITIONS

SOIL

During drilling in November and December, 1987, all soil samples were visually inspected and field-screened using a photo-ionization detector (PID). Based on these observations, eight individual soil samples were chosen for laboratory analyses of BTEX and TPH as gasoline, two soil samples were analyzed for volatile organic compounds (VOCs) and one soil sample for total oil and grease (TOG).

Minor levels of hydrocarbons at practical quantitative levels (PQL) in soil were found at depths of 25- and 30-feet below surface grade in several soil borings and wells around the former underground tank pit area and pump islands.

The laboratory results are presented in Appendix III, and are summarized in Table 1.

GROUNDWATER

Analysis of a groundwater sample collected from some body ing showed concentrations of the to be 29,000 ppb; and concentrations of the concentrations of t



collected from the open soil boring which could not be developed. The effects of silt in the sample may, therefore, have contributed to an artificially high hydrocarbon measurement.

Analyses of groundwater samples obtained from monitoring wells 1 and 2 showed concentrations of BTEX to be 220 ppb and 390 ppb, respectively, and concentrations of TPH as gasoline to be 2,100 ppb and 2,400 ppb, respectively. Analyses of water samples collected from monitoring well 3, situated downgradient of tank and pump islands area, did not show presence of hydrocarbons. These analytical results of groundwater samples from the monitoring wells are considered more representative than the initial sample from the soil boring, due to the quality of the samples and the absence of complicating factors.

The laboratory results are presented in Appendix III and are summarized in Table 1.

SUMMARY

A subsurface hydrocarbon contamination assessment investigation was initiated at this site on November 11, 1987, by Mr. Patrick Donahue of Texaco Refining and Marketing Inc.

The assessment, involving three exploratory soil borings and three monitoring wells indicated minor concentrations of hydrocarbons present in the soil borings drilled around the pump islands, and former underground tank area.



Presence of dissolved hydrocarbons in groundwater appear to be concentrated around the former underground tank area and pump islands with concentrations of BTEX from 220 to 390 ppb and concentrations of TPH as gasoline, to be from 2,100 to 2,400 ppb. Groundwater samples obtained from monitoring well 3, which is located downgradient of site, did not show the presence of hydrocarbons at PQL.

CLOSURE

Groundwater Technology, Inc. would like to thank Texaco Refining and Marketing Inc. for the opportunity to have been of service on this project. If you have any questions regarding this report feel free to contact our office.



TABLE 1 ANALYTICAL LABORATORY RESULTS - SOIL SAMPLE! [mqq]

Sample	DEPTH (FT.)	BENZENE	TOLUENE	ethyl- Benzene	XYLENE	BTEX	TOG	METHYLENE CHLORIDE	CHLOROPORM	MISC. HYDRO- CARBONS (C4-12)	TPH as GASOLINE
SB 1 C	(14-14.5)	ND	ND	מא	ND	ND	-	•	_	ND	ND
SB 1 F	(29-29.5)	ND	0.95	ND	ND		ND	1.9	0.025	ND	ND
SB 2 B	(9-9.5)	ND	ND	מא	, ND	ND	_	~~~	-	ND	ND
SB 2 F	(29-29.5)	ND	ND	ND	ND	ND	_	_	- -		ND
SB 3 C	(14-14.5)	ND	ND	ND	ND	מא	_			ND	
SB 3 F	(29-29.5)	ND	ND	ND	· –			•	-	ND	מא
MW 1 E	(24-24.5)	ND	_		ND	ND	-	-	~	ND	ND
			ND	0.24	2.0	-	-	ND	ND	-	-
MW 2 E	(24-24.5)	ND	Фи	ND	ND	ND	_	_	-	14.0	14.0
MW 3 E	(84-24,5)	ND	ИD	ND	ND	ND	_	-	-	ND	ND

ANALYTICAL LABORATORY RESULTS - WATER SAMPLES [dqq]

Sample	BENZENE	TOLUENE	ethyl- Benzene	XYLENE	втех	MISC. HYDRO- CARBONS (C4-12)	TPH AS GASOLINE
SB 3	70 °			1 600	3.200	37.000	20. 000
MW-1	ે 15	12		390	2200	27,000	29,000 2-100
MW-2	220	16	3	150	390	2,900	2,100
MW-3	מא	ND	ND C	ND	ND	ND	ND

- Less than Practical Quantitation Levels as per EPA Federal Register

TOG = Total Oil and Grease

TPH = Total Petroleum Hydrocarbons

BTEX = Total Benzene, Toluene, Ethylbenzene, Xylene

T4080A

APPENDIX I DRILLING LOGS

Drilling Lo	rilling Lo	0.
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OIL RECOVERY SYSTEMS Soil Boring	Drilling Log
Project Texaco Castro Valley Owner Texaco Refin. & Market	Sketch Map
Location Castro Valley Project Number 203 150 4080	
Date Drilled 11/20/87 Total Depth of Hole 35 ft. Diameter 7.5 in.	See Site Plan
Surface Elevation Water Level, Initial 31 ft. 24-hrs	
Screen: Dia Length Slot Size	
Casing: Dia Length Type	Notes
Drifting Company Sierra Pacific Drilling Method Hollow Stem Auger	
Order Todd Byard Log by Jan Prasil	

Depth (Feut)	Well	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification
 - 0 - 2 -				5000 7//// / CL /	2 inches asphalt over 5 inches base course Gray sandy clay (medium stiff, dry, no product odor)
- 4- - 6-		0	A 4 5 5 8 6		Yellow, sandy clay (medium stiff, dry, no product odor)
- 8- - 8- - 10-		0	B ! [22] 3 [CL	(grades yellow-brown, soft)
-1 2- -1 4- -1 6-		0	C 44 68		(grades medium stiff) (grades sandy)
-1 8- -1 8- -2 0-		0	D 5 8 8 13 C		Brown, clayey, medium sand (medium stiff, dry, no product odor) (grades moist)
2 2 		o	E		

Soil Boring ____

Drilling Log

Depth (Feet)	Well	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
-25- -28-			F	SC	Brown, clayey, medium sand (cont'd)
-30-		0	8 10 12 1		(grades very moist)
-32-					Encountered water 11/20/87 (1055 hours) (grades more clayey)
-34-				CL	Brown, sandy clay (medium stiff, wet, no product odor)
-36-					End of boring, backfilled with concrete
38					
-40-					
-42-					
-44-				- 	
-46-				 	
-48-				 	·
-50-					
-52-					
-54- -56-					
-58-					
-"-					

Drilling Log

-	Γē	Π	7)	11	
Depth (Feet)	Well Construction	Notes	Sample	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
-26-					Brown, sandy clay (cont'd)
-28-			F	CL4	
 - 		ļ	10 15 22	<i>\\\\\\</i>	(grades more sandy)
-30-			22	V///A	10 111 1111
 		ŀ		\///A	Encountered water 11/20/87 (1230 hours)
-32-				1444	Brown, coarse sand (loose, wet, no product odor)
			G		, , , , , , , , , , , , , , , , , , , ,
-34-			433	SP_	
F -		ļ	34		End of boring, backfilled with concrete
-36-				F -	
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-38-				1	
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Drilling Loc

Soil Boring 3	Drilling Log
Project Texaco Castro Valley Owner Texaco Refin. & Market. Skelch	n Map
Location Castro Valley Project Number 203 150 4080	
Date Drilled 11/20/87 Total Depth of Hole 35 ft Diameter 7.5 in See	Site Map
Surface Elevation Water Level, Initial 24-hrs	
Screen: Dia Length Slot Size	
Casing: Dia Length Type Notes	
Drilling Company Sterra Pacific Drilling Method Hollow Stem Auger	
Orsiler Todd Byard Log by Jan Prasil	

					Jan Prasil
Depth (Feut)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification
- 0 2 4 6 8			A 100 188 28 558		<pre>2 inches asphalt over 5 inches base course Gray, sandy clay (medium stiff, dry, no product odor) Light brown, silty clay (very stiff, dry, no product odor) (grades sandy, less silty) Light brown, sandy clay (medium stiff, dry, no product odor)</pre>
-1 0- - 1 2- - 1 4- - 1 6- - 1 8- 			C 850 567 567		(grades gray-green, silty) (grades very stiff) Light brown, clayey, medium sand (medium dense, dry, no product odor) (grades brown)
-2 0- -2 2- -2 4-			67 E 802	SC /	(grades more clayey)

Drilling Log

<u> </u>				,	
Depth (Feel)	Well	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
-26-					Light brown, clayey medium sand (cont'd)
 -28- -30-			F 10 15 21 21	SC	(grades moist)
-32-					Encountered water 11/20/87 (1520 hours)
- 34-					Brown sandy clay (medium stiff, wet, no product odor)
h -11					End of boring, backfilled with concrete
-36-					
-38-	ļ		}}		
-40-					
-42-					
F -					
-44-					
-46-					
-48-					
-50-				-	
			-	1	
-52-			⊪	-	
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GROUNDWATER
TECHNOLOGY.INC.

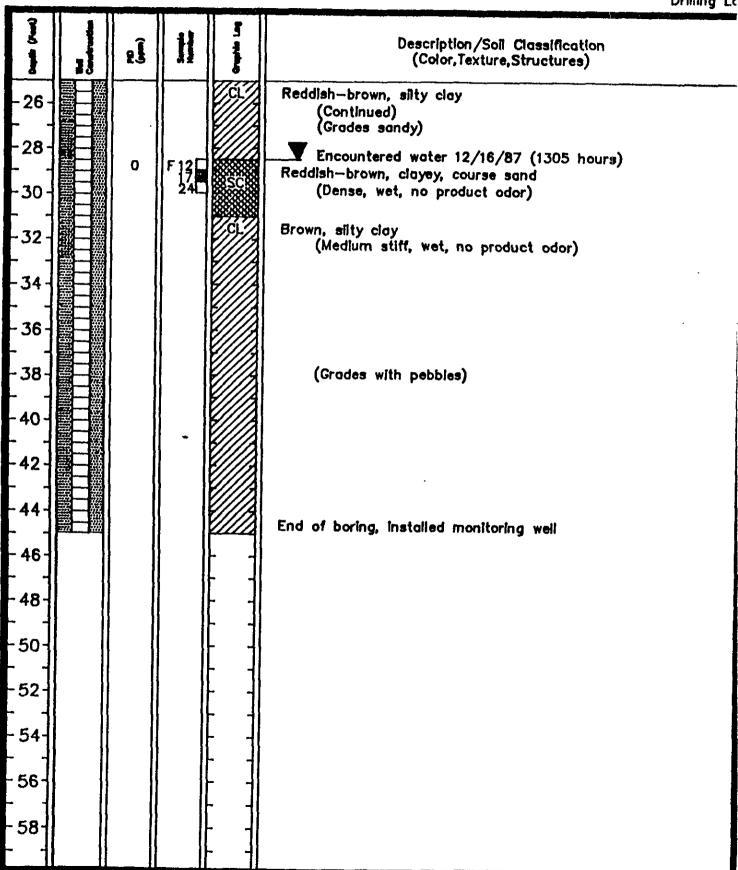
Drilling Log Monitoring Well ___1 Sketch Map Owner TEXACO REF. AND MARK. INC. TEXACO CASTRO VALLEY Project_ - Project Number 203-150-4080 CASTRO VALLEY, CA Location__ 12/16/87 Total Depth of Hole 45 FT Diameter 10.5 IN. Date Orlled_ Surface Elevation Water Level Initial 28 FT
Screen: Dia. 4 IN. Length 40 FT 24-hour_ SEE SITE PLAN Screen: Dia. 4 IN. .020 IN. Slot Size_ Casing: Dia. 4 IN. 5 FT Drilling Method HOLLOW STEM AUGER PVC __Length_ Drilling Company SIERRA PACIFIC TODD BYARD Notes JAN PRASIL Log by____ Geologist / Engineer... .License No._

Days (Peat)	One	ρĴ	ii	Omethe Lag	Description/Soil Classification (Color, Texture, Structures)
0 -	5.0:0:5.0				2 Inches of asphalt over 5 inches base course Dark brown, sandy, silty clay (Medium stiff, dry, no product odor)
4 - - 6 -		0	A 5 □ 11 ■ 25 □		(Grades light brown with black mottling, less sandy, stiff)
- 8 - - 10 -		0	B 7 11 13 13 13 13 13 13 13 13 13 13 13 13	SC S	(Grades brown) Light brown clayey, silty, fine sand (Medium dense, dry, no product odor)
- 12 - - 14 - - 16 -		0	C 3 C		Brown silty, clay (Stiff, moist, no product odor)
- 18 - - 20 -		D	D 5	Sc	(Grades sandy) Brown clayey, fine sand (Medium dense, moist, no product odor)
-22-		0	E 10		Brown silty clay (Stiff, moist, no product odor)
- 24 -		U	23		(Grades reddish brown with grey and black mottling)



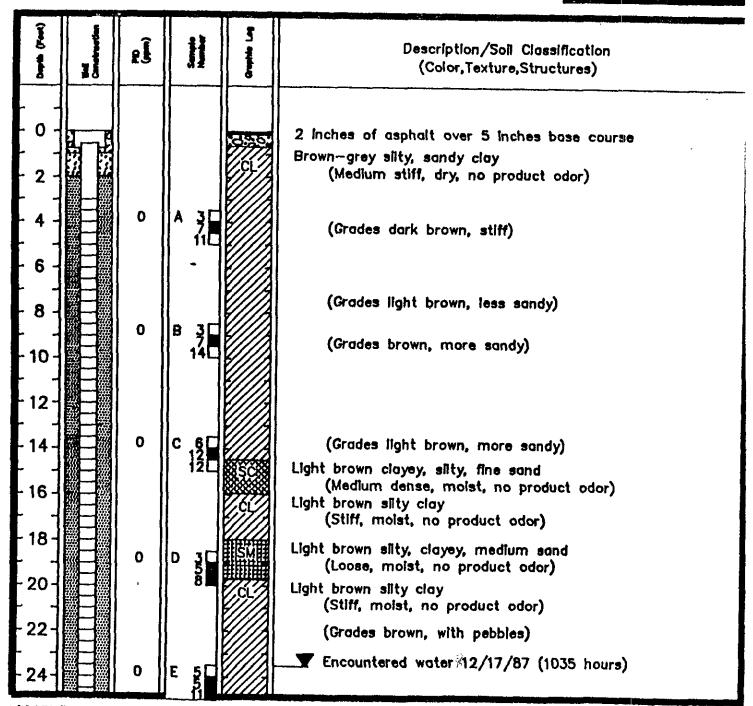
Monitoring Well __1_

Drilling Lo



GROUNDWATER
TECHNOLOGY.INC.

Monitoring Well 2 Drilling Lc TEXACO CASTRO VALLEY Owner TEXACO REF. AND MARK. INC. Sketch Map Project. CASTRO VALLEY, CA Project Number 203-150-4080 Location_ 12/17/87 Total Depth of Hole 38 FT Diameter 10.5 IN. Date Drilled_ Water Level Initial 23.5 FT 24-hour Surface Elevation... SEE SITE PLAN Screen: Dia. 4 IN. 35 FT .020 IN. Length. Slot Size_ Casing: Dia. 4 IN. **3 FT PVC** Drilling Method HOLLOW STEM AUGER .Length_ Drilling Company SIERRA PACIFIC TODD BYARD Notes JAN PRASIL Driller_ Log by_ Geologist / Engineer. License No. -





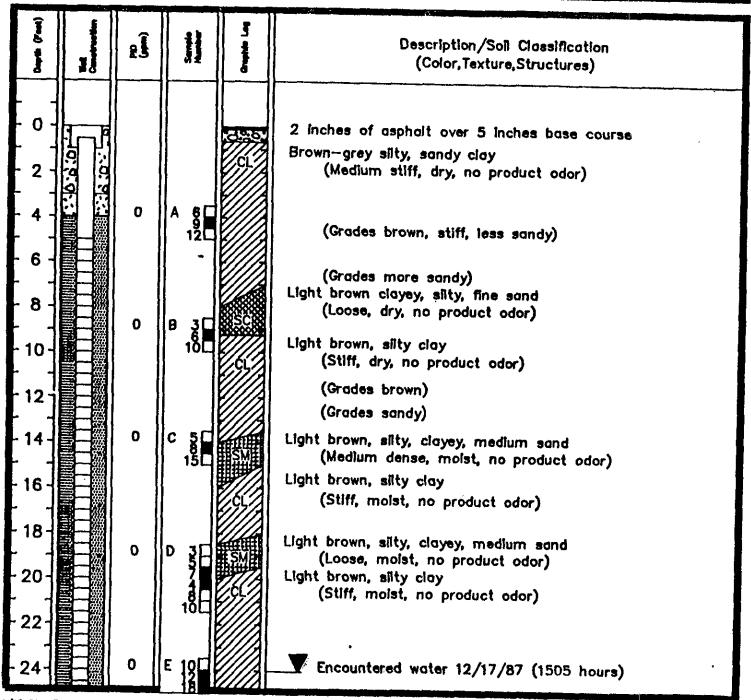
Monitoring Well $\underline{2}$

Drilling Lo

بسبسين	بنتيندي	,			Drilling Lo
Dage (See)	23	εĒ	Service Servic	2. 2.	Description/Soil Classification (Color, Texture, Structures)
- 26 -		0			Brown slity clay with pebbles (Continued)
-28					(Grades light brown)
!					
-30-					
-32-					
-34-					Brown fine sandy clay (Stiff, wet, no product odor)
F -		0		CL	
- 36 -					·
-38-	33 - 38				End of drilling, installed monitoring well
-40-					
- -42-			-		
					·
-44-				<u> </u>	
- 46-				-	
- 48-					
				} {	
- 50 -					
- 52 -				} {	
- 54-				F 1	
				<u> </u>	
-56- -				F]	
- 58-					



TECHNOLOGI,INC.	Monitoring Well 3	Drilling Log
Project TEXACO CASTRO VALLEY Own Location CASTRO VALLEY, CA Pro	olect Number 203-150-4080	Sketch Map
Date Drilled 12/11/01 Total Depth of F. Surface Flevation Water Level Initia	Hole 40 FT Diameter 10.5 IN.	SEE SITE PLAN
Screen: Dia. 4 IN. Length 35 Casing: Dia. 4 IN. Length 5 Drilling Company SIERRA PACIFIC Drill Driller TODD BYARD Log Geologist / Engineer Lice	ling Method HOLLOW STEM AUGER g by JAN PRASIL ense No	Notes





Monitoring Well 3

_			يسارجين الإثار			Drilling Lo
3	10	£3	11	gal alegeo	Description/Soil Classification (Color,Texture,Structures)	
- 26 - 28 - 30 - 32 - 34 - 36 - 38 - 40 - 42 - 44 - 46 - 48 - 50 - 52 - 54 - 56 - 56			F 1228		Description/Soil Classification (Color, Texture, Structures) Light brown, silty clay (Continued) (Grades brown, with pebbles) (Grades sandy, wet) Dark brown, clayey, medium sand (Very dense, wet, no product odor) Light brown, silty, sandy clay (Wet, medium stiff, no product odor) (Grades more sandy) (Grades brown) End of boring, installed monitoring well	
- 58- 			[]		

APPENDIX II WELL GAUGING DATA

PROJECT: TEXACO/CASTRO VALLEY
JOB NUMBER: 203 150 4080
DATE: DECEMBER 1987

		WELL 1	WELL 2	WELL 3
DATE	ELEV.	99.10	99.60	96.80
12/30/87	•	21.82 - 0.00	22.30 - 0.00	22.60 - 0.00

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

MD4080A

APPENDIX III LABORATORY RESULTS



Western Region

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

(800) 544-3422 from inside California

(800) 423-7143 from outside California

02-03-88 MH

Page 1 of 2

PROJECT MGR: Jan Prasil

Groundwater Technology, Inc.

4080 Pike Lane

Concord, CA 94520

PROJECT #:203-199-4080-1 LOCATION: Castro Valley, CA

SAMPLED: 11-21-87 BY: J. Prasil RECEIVED: 11-23-87 BY: K. Biava ANALYZED: 11-30-87 BY: J. Floro MATRIX: Soil E. Foley

TEST RESULTS (ppm)

COMPOUNDS	LAB # I.D.#	1	9962 1C	1	9963A 1F	l l	9964 2B	1	9965 2F	ı	9966 3C	1
Benzene			ND		ND		ND		ND		ND	
Ethylbenzene			ND		ND		ND		ND		ND	
Toluene			ND		ND		ND		ND		ND .	
Xylenes			ND		ND		ND		ND		ND .	
Total BTEX			ND		ND		ND		ND		ND	
Misc Hydrocarbons (C4-12)			ND		ND		ND		ND		ND	
Total Petroleum Hydrocarbons -												
as Gasoline			ND		ND		ND		ND		ND	

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

This report replaces one of the same dated 12/02/87.



Western Region

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

(800) 544-3422 from inside California

(800) 423-7143 from outside California

Page 2 of 2

PROJECT MGR: Jan Prasil PROJECT #:203-199-4080-1

LOCATION: 3940 Castro Valley Blvd

Castro Valley, CA

TEST RESULTS

(ppm)

					-				
COMPOUNDS	l I	LAB # I.D.#	1	9967 3F	!	 	1	i	
								' 	
Benzene				ND					
Ethylbenzene				ND					
Toluene				ND					
Xylenes				ND					-
Total BTEX				ND					
Misc. Hydrocarbons (C4-C12)				ND				•	
Total Petroleum Hydrocarbons as				ND					
Gasoline									

ND = Less than Practical Quantitation levels as per EPA Federal Register November 13, 1985, p. 46906. Results rounded to two significant figures. METHODS: Modified EPA 5030/8015/8020.
This report replaces one of the same number dated 12/02/87.

SAFY KHALIFA Ph. D. Diverton



A division of Groundwater Technology, Inc.

Western Region

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

(800) 544-3422 from inside California

(800) 423-7143 from outside California

V. O. A.

A

TEST RESULTS (ppm)

12-29-87 MH

Page

PROJECT MGR: Jan Prasil

Groundwater Technology, Inc.

4080-D Pike Lane

Concord, CA 94520

PROJECT #:203-199-4080-2A

LOCATION: 3940 Castro Valley Blvd

Castro Valley, CA

SAMPLED: 11-21-87 BY: J. Prasil RECEIVED: 11-23-87 BY: K. Biava

ANALYZED: 11-24-87 BY: V. Craven MATRIX: Soil

R. Craven

COMPOUNDS	LAB #	1	9936B	ı	J	1	
	I.D.#	!	1F	1	1	1	İ
Chloromethane			ND		~~~~~~		
Browomethane			ND				
Vinyl Chloride			ND				
Chloroethane			ND				
Methylene Chloride			1.9				-
Acetone			ND				
Carbon Disulfide			ND				
1,1-Dichloroethene			ND				
1,1-Dichloroethane			ND				
Trans-1,2-Dichloroethene			ND				
Chloroform			0.025	5			
1,2-Dichloroethane			ND				
2-Butanone			ND				
1, 1, 1-Trichloroethane			ND	•			
Carbon Tetrachloride			ND		•		
Vinyl Acetate			ND				
Bromodichloromethane			ND				
1,2-Dichloropropane			ND				
cis-1,3-Dichloropropene			ND				
Trichloroethen e			ND				
Dibromochloromethane			ND				
1, 1, 2-Trichlorethane			ND				
Benzene			ND				
Trans-1,3-Dichloropropene			ND				
2-Chloroethylvinylether			ND				
Bromoform			ND				
4-Methyl-2-Pentanone			ND				
2-Hexanone			ND				
Tetrachloroethene			ND				
1,1,2,2-Tetrachloroethane			ND				
Toluene			0.95				
Chlorobenzene			ND				
Ethylbenzene			MD				



Western Region

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

В

(800) 544-3422 from inside California

(800) 423-7143 from outside California

(ppm)

Page One Continued

PROJECT MGR: Jan Prasil

PROJECT #:203-199-4080-2A

LOCATION: 3940 Castro Valley Blvd

Castro Valley, CA

	LAB #	ī	9936B	1	l	1	1
COMPOUNDS	I.D.#	l 1F		1	i	ł	1
Styrene			ND				
1,2-Dichlorobenzene			ND				
1,3-Dichlorobenzene			ND				
1,4-Dichlorobenzene			ND				
Total Xylenes			ND				
Trichlorofluoromethane			ND				•

ND = Less than Practical Quantitation levels as per EPA Federal Register, November 13, 1985, p. 46906. METHODS: Extracted by EPA 3550. Analyzed by EPA 8240. This report replaces one of the same number dated 11-24-87.

SAFY KHALIFA, Ph.D., Director



Western Region

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

PARAMETER

(800) 544-3422 from Inside California

(800) 423-7143 from outside California

12-14-87 MH

Page 1 of 1

PROJECT MGR: Jan Prasil

Groundwater Technology, Inc.

4080-D Pike Lane

Concord, CA 94520

PROJECT #:203-199-4080-3A

LOCATION: 3940 Castro Valley Blvd

Castro Valley, CA

SAMPLED: 11-21-87

BY: J. Prasil

RECEIVED: 11-23-87

BY: K. Biava

ANALYZED: 12-12-87

BY: R. Heines

MATRIX: Soil

TEST RESULTS (ppm)

LAB # 9963C I.D.#

Total Dil & Grease

ND

ND = Not Detected. METHOD: EPA 413.1.



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Western Region

4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

1,2-Dichloropropane

Trichloroethene

cis-1,3-Dichloropropene

A

(800) 544-3422 from inside California

(800) 423-7143 from outside California

V. D. A.

TEST RESULTS (ppm)

12-29-87 MH

Page 1 of 1

PROJECT MGR: Jan Prasil

Groundwater Technology, Inc.

4080-D Pike Lane Concord, CA 94520

PROJECT #:203-199-4080-5

ND

ND

ND

ND

LOCATION: 3940 Castro Valley Rd., Castro Valley, CA

SAMPLED: 12/15/87 BY: G. Mason RECEIVED: 12/17/87 BY: K. Biava ANALYZED: 12/19/87 BY: V. Craven MATRIX: Soi 1 R. Craven

LAB # 10959 COMPOUNDS I.D.# MW-1E 1 ŧ Chloromethane ND **Bromomethane** ND Vinyl Chloride ND Chloroethane ND Methylene Chloride ND Acetone

ND Carbon Disulfide ND 1, 1-Dichloroethene ND 1,1-Dichloroethane ND Trans-1, 2-Dichloroethene ND Chloroform ND 1.2-Dichloroethane ND 2-Butanone ND 1, 1, 1-Trichloroethane ND Carbon Tetrachloride ND Vinyl Acetate ND **Bromodichloromethane** ND

Dibromochloromethane ND 1.1.2-Trichlorethane ND Benzene ND Trans-1, 3-Dichloropropene ND 2-Chloroethylvinylether ND Bromo form ND 4-Methy1-2-Pentanone ND 2-Hexanone ND

Tetrachloroethene ND 1, 1, 2, 2-Tetrachloroethane ND Toluene ND Chlorobenzene

Ethy1benzene 0.24



4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

(800) 544-3422 from inside California

(800) 423-7143 from outside California

Page One Continued

PROJECT MGR: Jan Prasil PROJECT #:203-199-4080-5

LOCATION: 3940 Castro Valley Rd.

Castro Valley, CA

В

(ppm)

	LAB #	ı	10959	1	1	ı	
COMPOUNDS	I.D.#	ı	MW-1E	1	ŧ	1	i
	V * # + * # * #						
Styrene			ND				
1,2-Dichlorobenzene			ND				
1,3-Dichlorobenzene			ND				
1,4-Dichlorobenzene			ND				
Total Xylenes			2				
Trichlorofluoromethane			ND				•

ND = Less than Practical Quantitation levels as per EPA Federal Register, November 13, 1985, p. 46906.

METHODS: Extraction by EPA 3550. Analysis by EPA 8240.

This report replaces one of the same dated 12-19-87.

SAFY KHALIFA, Ph.D., Director



4080-C Pike Lane, Concord, CA 94520

TEST RESULTS

(ppm)

(415) 685-7852

(800) 544-3422 from inside California

(800) 423-7143 from outside California

12-31-87 MH

Page 1 of 1

PROJECT MGR:

Jan Prasil

Groundwater Technology, Inc

4080-D Pike Lane

Concord, CA 94520

PROJECT #:203-199-4080-6A

LOCATION: 3940 Castro Valley Blvd

Castro Valley, CA

SAMPLED: 12-17-87 BY: J. Prasil RECEIVED: 12-18-87 BY: K. Biava ANALYZED: 12-28-87 BY: J. Floro

MATRIX: Soil

COMPOUNDS	LAB # I.D.#	l	11039 MW-2E	ļ	11040	!	į	1	i
	1. D. \ 	, 	PIW-2E	_ I	MW-3E	! 		1	1
Benzene			ND		ND				
Ethy1benzene			ND		ND				
Toluene			ND		ND				
Xylenes			ND		ND		•		
Total BTEX			ND		ND				•
Misc Hydrocarbons (C4-12)			14		ND				
Total Petroleum Hydrocarbons as Gasoline			14		ND				

METHODS: Modified EPA Method 5030/8020/8015.

ND = Less than Practical Quantitation levels as per EPA Federal Register,

November 13, 1985, p. 46905.

Results rounded to two significant figures.

SAFY KHALIFA, Ph.D., Director



4080-C Pike Lane, Concord, CA 94520

(415) 685-7852

Gasoline

(800) 544-3422 from inside California (800) 423-7143 from outside California

12-03-87 MH

Page 1 of 1

PROJECT MGR: Jan Prasil

Groundwater Technology, Inc.

4080-D Pike Lane

Concord, CA 94520

PROJECT #:203-199-4080-4A

LOCATION: 3940 Castro Valley Blvd

Castro Valley, CA

SAMPLED: 11-21-87 BY: J. Prasil RECEIVED: 12-02-87 BY: K. Biava ANALYZED: 12-02-87 BY: J. Floro

TEST RESULTS

(ppb)

MATRIX: Water

COMPOUNDS	LAB # I.D.#	1	10297 SB-3	 	1		 	1
Benzene			70		7			
Ethy1benzene			4					
Toluene			9					
Xylenes			1600					
Total BTEX			1700					•
Misc. Hydrocarbons (C4-12)			27000		,			
Total Petroleum Hydrocarbons as			29000			-		

METHODS: EPA Modified 602/5030/8015/8020.

Results rounded to two significant figures.

ND = Less than Practical Quantitation levels as per EPA Federal Register November 13, 1985, p. 46906.

SAFY KHALIFA, Ph.D. Director



(415) 685-7852

A division of Groundwater Technology, Inc.

(800) 544-3422 from inside California

(800) 423-7143 from outside California

Page 1 of 1

1/16/88 rw

PROJECT MGR: Jan Prasil

Groundwater Technology, Inc

4080-D Pike Lane

Concord, CA 94520

PROJECT #:203-199-4080-7A

LOCATION: 3940 Castro Valley Blvd. Castro Valley, CA

SAMPLED: 12/30/87 BY: J. Galloway RECEIVED: 12/30/87 BY: K. Biava ANALYZED: 1/08/88 BY: P. Sra

MATRIX: Water

TEST RESULTS

4080-C Pike Lane, Concord, CA 94520

(ppb = ug/L)

COMPOUNDS	LAB # I.D.#	i I	13282 MW-1	1	13283 MW-2	I I	13284 MW-3	l J	-	1	†
Benzene			15		550		ND				
Ethylbenzene			3		3		ND				
Toluene			12		16		ND				
Xylenes			190		150		ND				
Total BTEX			550		390		ND				•
Misc. Hydrocarbons (C4-12)		!	1900	į	2000		ND				
Total Petroleum Hydrocarbons as Gasoline		á	2100	i	2400		ND				

these or soil methods: ?

analyses method 602?

METHODS: Modified EPA Methods 5030/8015/8020.

ND = Less than Practical Quantitation Levels as per EPA Federal Register, November 13, 1985, p. 46906.

Results rounded to two significant figures.

SAFY KHALIFA, Ph.D., Director

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