

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

November 20, 1992

Job Number 020203282

Mr. Mark Miller Chevron USA Products Company P.O. Box 5004 San Ramon, CA 94583

OAKLAND, CALIFORNIA

RE:

MONITORING AND SAMPLING REPORT OF VADOSE WELL 2-1 CHEVRON SERVICE STATION No. 9-3600 2200 TELEGRAPH AVENUE

NOV 25 '92

IST

Dear Mr. Miller:

On October 13, 1992, at the request of Chevron U.S.A. Products Company (Chevron) Groundwater Technology, inc. monitored vadose well (VW-2-1) at the above referenced site. Organic vapor concentrations were measured with a photo-ionization detector (PID), water samples from the well were collected and submitted for analysis. Water samples were analyzed for total petroleum hydrocarbons (TPH)-as-gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX). The work was performed in accordance with the letter dated September 2, 1992 from Mr. Mark Miller of Chevron.

The PID was calibrated with 100 parts per million isobutylene. The vapors within the well were measured after the well cap was removed. The PID registered 105 parts per million of total petroleum hydrocarbons. The well was then gauged to determine depth to water (DTW), depth to product (DTP), and total depth (TD) of the well. Results of the October 13, 1992, monitoring event indicate DTP is 4.42 feet, DTW is 4.43 feet, and TD is 5.14 feet. The reading of 0.01 foot of product could not be confirmed with a clear acrylic bailer.

Efforts to purge the well were unsuccessful because there was not enough water in the well to bail. Water samples were collected from the standing water in the well with a clean teflon sampler. Water samples were placed into 40 milliliter glass containers and fitted with a plastic cap lined with a teflon stepum. The samples were sealed so that no air remained inside. The samples were labeled and placed in an insulated cooler for transportation to a California certified laboratory for analyses. A chain-of-custody record was filled out and accompanied the samples at all times. After the groundwater samples were collected the well was secured with the cap and the lid to the road box was replaced.

Analytical results of the water samples collected on October 13, 1992, reported detectable concentrations of TPH-as-gasoline and BTEX. The results are summarized below and laboratory report and chain-of-custody record are included in Attachment A.

WELL ID	TPH-AS- GASOLINE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE
VW-2-1	42,000	3,300	7,100	540	10,000

Note: Concentrations in parts per billion (ppb)

This concludes Groundwater Technology's letter report for monitoring and sampling of vadose well VW 2-1 at 2200 Telegraph Avenue, Oakland, California. Groundwater Technology appreciates this opportunity to be of service to Chevron. If you have any questions regarding this letter report please contact us at (510) 671-2387.

Sincerely, GROUNDWATER TECHNOLOGY, INC

Jem Watchers
Tim Watchers
Project Geologist

Project Manager

LR3282TW.01

GROUNDWATER TECHNOLOGY, INC

David R. Kleesattel, R.G. District Hydrogeologist



DAVID R KLEESATT



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: 80, 80x 5004, San Ramon, CA 94583-0804

September 2, 1992

Mr. Greg Mischel Groundwater Technology, Inc. 4057 Port Chicago Highway Concord, CA 94520

Re:

Chevron Service Station 9-3600

2200 Telegraph Avenue, Oakland, CA

Dear Mr. Mischel:

Enclosed is a copy of the Site Plan showing locations of the vadose wells at the above referenced site to assist Groundwater Technology, Inc. in performing a preliminary site investigation. The sixteen wells with vapor sensors were installed during the station reconstruction around 1986-87 because BART tracks run directly beneath the site in an underground tunnel. Approximately three Mo, OFFY -> weeks ago all sixteen sensors went off simultaneously. The sensors were replaced and currently only one sensor designated 2-1 on the site plan continues to go off.

TWO DID

The dealer at this site has reported no recent loss of inventory and the tanks tested tight in 1991. According to the dealer, standing water was observed in well 2-1 when the sensors were replaced. For your reference I have also enclosed information on these sensors which indicates that they are not tolerant of fluids. I believe that the old sensors may have come in contact with water in some form or another and malfunctioned. The one new sensor which continues to go off may be due to the standing water in the well.

I would like Groundwater Technology, Inc. to screen vadose well 2-1 with a PID, bail the well dry, and take a grab sample to be analyzed for TPH-gas and BTEX. Vadose well 2-1 is labelled in white paint with a large "2-1" on the underside of the manhole cover to avoid confusion. Please perform this work within thirty days and submit a report documenting all findings.

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Very truly yours,

CHEVRON U.S.A. PRODUCTS COMPANY

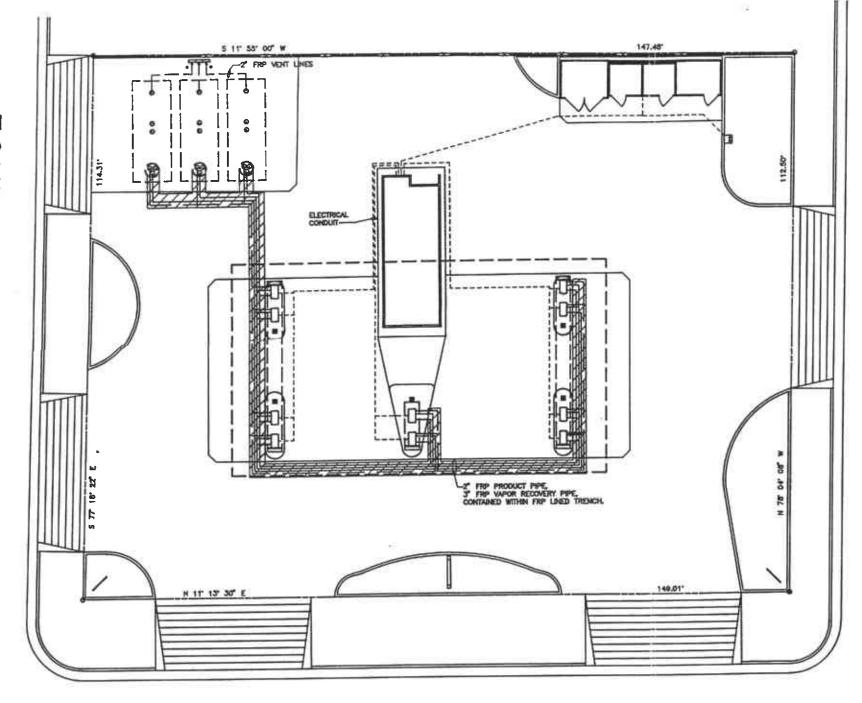
Mark A. Miller

Site Assessment and Remediation Engineer

Enclosures

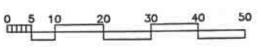
cc: File (9-3600 RFP1)

AVENUE GRAND WEST



STREET 22nd

AVENUE TELEGRAPH



Charge	SITE PLAN							
Chevron U.S.		DEALER OPERATED 9-3600						
Merleting Operators	San Ramon	TELEGRAPH & WEST GRAND						
REMSONS		OAKLAND, CALIFORNIA						
ADD PIPHG AND CONDUIT	08/18/91 HCH	SÇALE: 1"=10"-0" DR.HCH CH	DATE: 08/30/90 APP.					
		IF THIS DRAWING IS SCALE 1"=20"-0"	11*x17*					

ATTACHMENT A LABORATORY REPORT





Superior Precision Analytical, Inc. •

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

GROUNDWATER TECHNOLOGY, Attn: Sandra Lindsey

INC.

Project "PENDING" Reported 10/18/92

TOTAL PETROLEUM HYDROCARBONS

Lab #

Sample Identification

Sampled

Analyzed Matrix

86915- 1

MW-2-1

10/12/82

10/17/92 Water

RESULTS OF ANALYSIS

Laboratory Number:

86915- 1

Gasoline:

42000

Benzene:

3300

Toluene:

7100

Ethyl Benzene:

540

Xylenes:

10000

Concentration:

ug/L

A

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 86915

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb) -

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F: Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons: Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline: Benzene: Toluene: Ethyl Benzene: Xylenes:	200 ng	103/105	2%	70-130
	200 ng	93/95	2%	70-130
	200 ng	97/100	3%	70-130
	200 ng	101/103	2%	70-130
	200 ng	99/102	3%	70-130

Richard Sîna, Ph.D

Laboratory Director

Certified Laboratories

Fax copy of	Lab F	Report	and			/ron	Con	tac	t: 🗀	Ye: No	S_{ℓ}	919	<u></u>	C	<u>hair</u>	<u>1-0</u>	f-(Cust	lody	-Rec	ord
Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842—9591	Consultant Project Number Paralling Consultant Name Consultant Project Contact (Name) Small bridge 17 M JA Chara Project Contact (Name) Small bridge 17 M JA Chara (Phone) 671-2-387 (Fax Number) 699 9148							Chevron Contact (Name) MAKE MILLAL (Phone) 842-8134 Laboratory Name September 82/2570 Samples Collected by (Name) STEVEN J. STREM Collection Date 12/3:92- Signature 18													
Sample Number Lab Sample Number	Number of Containers Moths	N = Soil A = Ar W = Water C = Charcool Type G = Grab C = Composite D = Diagrams	Time	Sample Preservation	load (Yee or No)	BIEX + TPH GAS (8020 + 8015)	TPH Diosed (8015)	Oil and Grease (5520)	Purgeable Holocarbons (8010)	Purgeable Arometical (8020)		Extractoble Organics of (8270)	Metals C4.C4.Pb.Zn,Ni (ICAP or AA)]		Py	, /c f	/
M. 2.1	 _ .	J 6		HC-l.	YC 2	× -					Ap San	ase in apples propri	Store ate.co preser thout	niain	212	5					
Relinquished By (Signature) Relinquished By (Signature) Relinquished By (Signature)		Organization Organization Organization	•	Date/Time Date/Time Date/Time	Rec	elved By	(Signat	ure)	y (Signati	ire)	Prganizat Prganizat		Date Date / 5/	o/Time			Turn Ar	24 46 5	me (Circ 4 Hre. 5 Hre. Daye) Daye	le Cholce)	•