



**Chevron**

May 7, 1993

**Chevron U.S.A. Products Company**  
2410 Camino Ramon  
San Ramon, CA 94583

**Marketing Department**  
Phone 510 842 9500

Ms. Juliet Shin  
Alameda County Health Care Services  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

**Re: Former Chevron Service Station #9-2384  
15526 Hesperian Boulevard, San Lorenzo, CA**

Dear Ms. Shin:

Enclosed is the Groundwater Monitoring and Sampling Report dated April 20, 1993, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Benzene was detected only in monitor wells MW-2 and MW-3 at concentrations of 37 ppb and 67 ppb, respectively. Depth to groundwater was measured at approximately 10.9 feet to 11.2 feet below grade and the direction of flow is to the west.

Chevron will continue to monitor and sample all wells on a quarterly basis.

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

Very truly yours,  
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller  
Site Assessment and Remediation Engineer

Enclosure

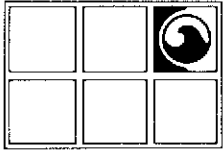
cc: Mr. Eddy So, RWQCB - Bay Area  
Ms. B.C. Owen  
File (9-2384 QM3)

Mr. Ken Williams  
Century 21 Korpi & Associates  
15200 Hesperian Blvd.  
San Leandro, CA 94570

Dr. Beryl Bearint  
19135 S.E. Coral Reef Lane  
Jupiter, FL 33458-1051



APR 22 '93 J.M.M.



# GROUNDWATER TECHNOLOGY, INC.

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

FAX: (415) 685-9148

April 20, 1993

Project No. 020203215

Mr. Mark Miller  
Chevron U.S.A. Products Company, Inc.  
PO Box 5004  
San Ramon, CA 94583-0804

SUBJECT: Groundwater Monitoring and Sampling Report  
Chevron Service Station No. 9-2384  
15526 Hesperian Boulevard, San Lorenzo, California


Dear Mr. Miller:


Groundwater Technology, Inc. presents the attached groundwater monitoring and sampling data collected on **March 19, 1993**. The three groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. **Separate-phase hydrocarbons were not detected in the monitoring wells.** A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments 1 and 2, respectively. After the DTW was measured, each monitoring well was purged and sampled. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes and total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Table 1. The laboratory report and chain-of-custody record are included in Attachment 3. Monitoring well purge water was removed by Groundwater Technology and transported to the Chevron Terminal in Richmond, California for recycling.

Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments, please call our Concord office at (510) 671-2387.

Sincerely,  
Groundwater Technology, Inc.  
Written/Submitted by

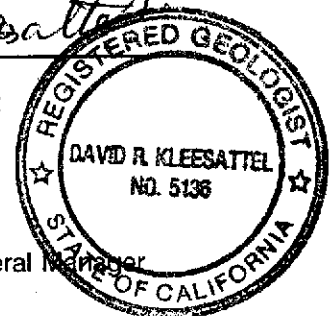
Groundwater Technology, Inc.  
Reviewed/Approved by

  
\_\_\_\_\_  
Tim Watchers  
Project Geologist

  
\_\_\_\_\_  
David R. Kleesattel  
Registered Geologist  
No. 5136

Attachment 1 Figure  
Attachment 2 Table  
Attachment 3 Laboratory Report

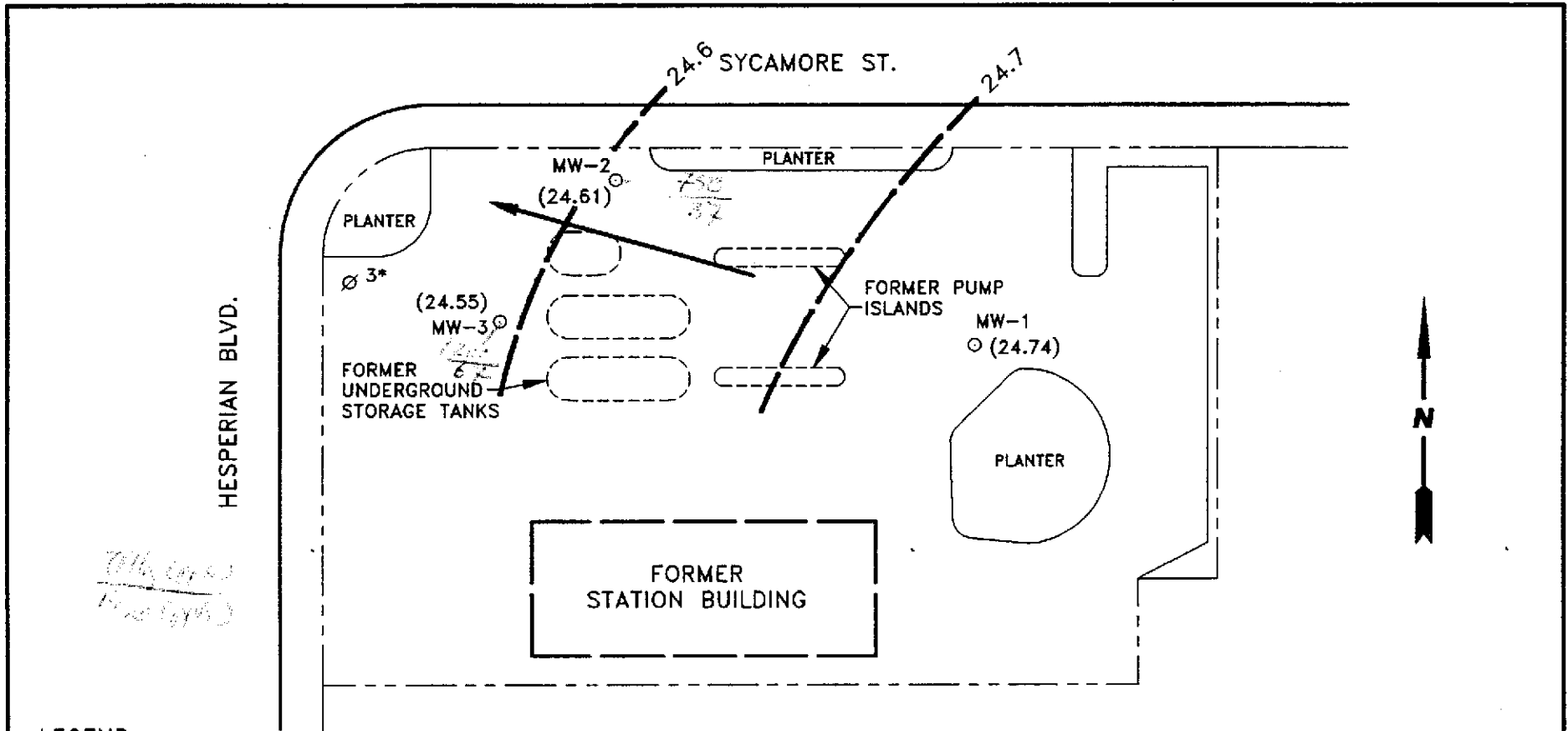
For:  
John S. Gaines  
Vice President, General Manager  
West Region



LR3215A3.NM


**ATTACHMENT 1**

**FIGURE**



**LEGEND**

- MONITORING WELL
- ∅3\* ABANDONED MONITORING WELL (FORMER LOCATION OF MW-3)
- ( ) POTENTIOMETRIC SURFACE ELEVATION
- POTENTIOMETRIC SURFACE CONTOUR
- ← APPROXIMATE GROUNDWATER FLOW DIRECTION

 <b>GROUNDWATER TECHNOLOGY</b>				4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387		<b>POTENTIOMETRIC SURFACE MAP</b> <b>(3/19/93)</b>	
<b>CLIENT:</b> CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-2384				<b>LOCATION:</b> 15526 HESPERIAN BLVD. SAN LORENZO, CALIFORNIA		<b>REV. NO.:</b> 0	<b>DATE:</b> 4/15/93
<b>PM</b> <i>JAW</i>	<b>PE/RG</b> <i>DRK</i>	<b>DESIGNED</b> TW	<b>DETAILED</b> CY	<b>ACAD FILE:</b> PSM493	<b>PROJECT NO.:</b> 020202746	<b>FIGURE:</b> 1	

**ATTACHMENT 2**

**TABLE**

**TABLE 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**  
**Chevron Service Station No. 9-2384**  
**15526 Hesperian Boulevard, San Lorenzo, California**

Well ID/ Elevation	Date	TPH-as- Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	GWE (ft)
MW-1 35.64	06/04/92	<50	<0.5	<0.5	<0.5	<0.5	13.12	0.00	22.52
	07/30/92	--	--	--	--	--	13.82	0.00	21.82
	08/25/92	--	--	--	--	--	14.20	0.00	21.44
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5	14.59	0.00	21.05
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5	14.28	0.00	21.36
	03/19/93	<50	<0.5	<0.5	<0.5	<1.5	10.90	0.00	24.74
MW-2 35.85	06/04/92	6,700	910	17	210	30	13.48	0.00	22.73
	07/30/92	--	--	--	--	--	14.17	0.00	21.68
	08/25/92	--	--	--	--	--	14.56	0.00	21.29
	09/23/92	1,500	110	1.2	81	<0.5	14.95	0.00	20.90
	12/29/92	1,200	51	1.1	27	<0.5	14.61	0.00	21.24
	03/19/93	750	37	1.0	34	1.6	11.24	0.00	24.61
MW-3 35.42	06/04/92	460	12	0.8--	5.8	14	13.12	0.00	22.30
	07/30/92	--	--	-	--	--	13.81	0.00	21.61
	08/25/92	--	--	--	--	--	14.20	0.00	21.22
	09/23/92	1,100	62	1.5	110	4.0	14.58	0.00	20.84
	12/29/92	450	21	0.7	12	3.0	14.22	0.00	21.20
	03/19/93	1,200	67	1.3	96	5.5	10.87	0.00	24.55
Trip Blank	06/04/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/19/93	<50	<0.5	<0.5	<0.5	<1.5	--	--	--

All elevations are given as feet above mean sea level.  
Concentrations shown in parts per billion.

TPH = Total petroleum hydrocarbons  
DTW = Depth to water  
SPT = Separate-phase hydrocarbon thickness  
GWE = Groundwater elevation in feet above mean sea level  
-- = Not applicable, not sampled, not measured

**ATTACHMENT 3**  
**LABORATORY REPORT**

LR3215A3.NM



# Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGY, INC.  
Attn: Sandra Lindsey

Project 020203215.061004  
Reported 03/24/93

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
88119- 1	TB-LB	03/19/93	03/23/93 Water
88119- 2	RBMW1	03/19/93	03/23/93 Water
88119- 3	MW1	03/19/93	03/22/93 Water
88119- 5	MW3	03/19/93	03/23/93 Water
88119- 7	MW2	03/19/93	03/23/93 Water

## RESULTS OF ANALYSIS

Laboratory Number: 88119- 1 88119- 2 88119- 3 88119- 5 88119- 7

Gasoline:	ND<50	ND<50	ND<50	1200	750
Benzene:	ND<0.5	ND<0.5	ND<0.5	67	37
Toluene:	ND<0.5	ND<0.5	ND<0.5	1.3	1.0
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	96	34
Xylenes:	ND<1.5	ND<1.5	ND<1.5	5.5	1.6
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L





# Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

## C E R T I F I C A T E   O F   A N A L Y S I S

### ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2  
QA/QC INFORMATION  
SET: 88119

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	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	92/94	3	70-130
Benzene:	88/89	0	70-130
Toluene:	94/93	1	70-130
Ethyl Benzene:	98/97	1	70-130
Xylenes:	101/100	1	70-130

Richard Srna, Ph.D.

*Soledad V. Sanquibiz* (for)  
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact:  Yes  No

88119 Chain-of-Custody-Record

Chevron U.S.A. Inc.  
P.O. BOX 5004  
San Ramon, CA 94583  
FAX (415)842-9591

Chevron Facility Number SS# 9-2384  
 Facility Address 15526 Hesperian Blvd  
 Consultant Project Number SS# 020203215.061004  
 Consultant Name SS# Groundwater Technology  
 Address 4057 Port Chicago Hwy  
 Project Contact (Name) SCADRA LINDSEY  
 (Phone) 671-2317 (Fax Number) 685-9149

Chevron Contact (Name) NANCY VUKELIC  
 (Phone) 842-9581  
 Laboratory Name Supremat Analytical  
 Laboratory Release Number 5832660  
 Samples Collected by (Name) Hector MERINO  
 Collection Date 3-19-93  
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analyses To Be Performed											Remarks		
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						
FB-LB	1	1	W	G		HCl	YES	X													
BMW1	2	1			10:50			X													
MW1	3	3			10:55			X													
BMW3	④	1			11:00																X
MW3	5	3			11:00			X													
BMW2	⑥	1			11:10																
MW2	7	3	✓	✓	11:10	✓	✓	X													

Please initial: X OP  
 Samples Stored in ice. RO DC  
 Appropriate containers. \_\_\_\_\_  
 Samples preserved. \_\_\_\_\_  
 VOA's without headspace. \_\_\_\_\_  
 Comments: U

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GCI</u>	Date/Time <u>3/19/93</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>[Signature]</u>	Date/Time <u>3-19-93 4:45pm</u>		