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HAZMAT



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**Chevron**

94 JAN 10 PM 3: 07

January 6, 1994

**Chevron U.S.A. Products Company**

2410 Camino Ramon  
San Ramon, CA 94583  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Marketing Department**

Phone 510 842 9500

Ms. Eva Chu  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Former Chevron Station # 9-2582, 7240 Dublin Blvd., Dublin, CA  
Attached groundwater monitoring report (Blaine Tech, 10/4/93)  
Attached SVE summary report (Geraghty & Miller, 12/23/93)

Dear Ms. Chu:

Attached is a report dated October 4, 1993, which was prepared by Chevron's consultant, Blaine Tech Services (Blaine Tech), to describe groundwater monitoring performed at the subject site on September 16, 1993.

The measured levels of dissolved hydrocarbons were consistent with those detected during previous site monitoring events. The measured direction of groundwater flow was toward the east-southeast.

Per your request, I have also attached the latest report (12/23/93) issued by Chevron's consultant, Geraghty & Miller, which summarizes the performance of the soil vapor extraction system operating onsite.

If you have any questions or comments, I can be reached at (510) 842-8695.

Sincerely,

Brett L. Hunter  
Environmental Engineer  
Site Assessment and Remediation

Attachments

cc: Lester Feldman, San Francisco Bay RWQCB, Oakland, CA  
Janet Clinton (for Parkway Three), 2425 Webb Avenue, Suite 200, Alameda, CA 94501  
Bette Owen, Chevron USA, Products Company, San Ramon, CA (w/o attachments)

DEC 28 '93 KLN



December 23, 1993  
Project No. RC0085.003

Mr. Brett Hunter  
Chevron U.S.A. Products Company  
P.O. Box 5004  
2410 Camino Ramon  
San Ramon, California 94583-0804

SUBJECT: Report on Hydrocarbon Recovery for Soil Vapor Extraction System at Former Chevron Service Station #9-2582, 7420 Dublin Blvd., Dublin, California.

Dear Mr. Hunter:

As requested, Geraghty & Miller, Inc. (Geraghty & Miller) is preparing reports to document the mass of hydrocarbons extracted and treated by the soil-vapor extraction (SVE) system at Station #9-2582. On December 4, 1992, an inlet concentration controller (ICC) was installed to achieve a higher throughput of hydrocarbon-laden soil vapors, consume less electrical power, and require fewer site visits.

The catalytic oxidation unit has been equipped with a temperature recorder which traces out the inlet and outlet temperatures of the catalyst bed. The difference between these temperatures, the exotherm, is the result of hydrocarbon combustion and is directly related to the concentration of hydrocarbons in the unit influent.

Temperature recorder strip charts have been reviewed in order to integrate the total hydrocarbons removed from the site. For each day of operation, an exotherm was ascertained (see Table 1). Using the following formula (with data from March 28, 1993), the pounds per day were calculated and are totalled on Table 1:

$$350^{\circ}\text{F} \times \frac{0.24 \text{ BTU}}{\text{lb}^{\circ}\text{F}} \times \frac{89 \text{ ft}^3}{\text{min}} \times \frac{0.075 \text{ lb}}{\text{ft}^3} \times \frac{1,440 \text{ min}}{\text{day}} \times \frac{\text{lb}}{19,400 \text{ BTU}} = 42 \text{ lb/day VOCs extracted.}$$

where

350°F	average exotherm	0.075 lb/ft <sup>3</sup>	density of air
0.24 BTU	heat capacity of air	19,400 BTU/lb	net heat of combustion



Through November 28, 1993, 9,000 pounds of hydrocarbons have been extracted as VOCs. Concentrations are now below the catalytic unit's maximum. During system restarts, when concentrations are much higher, the ICC adjusts the ambient bleed valve to maximize hydrocarbon concentrations without exceeding the maximum concentrations the catalytic unit can handle.

During October and November, one shutdown occurred. The unit was restarted on the next site visit (November 8). Instrumentation onsite indicated that the shutdown was due to an interruption of electrical power.

A slow decline in SVE concentrations has been observed during this quarter of operation. This slow decline, and the tenfold increase in SVE concentrations after system shutdowns, is consistent with free product or a region of highly contaminated soil located below the depth of the horizontal extraction piping. (Horizontal, rather than vertical, vapor "wells" had been installed at the site.) During SVE, those hydrocarbons would, through diffusion, provide an ongoing source of vapor. During periods of non-operation, vapors would continue to diffuse upward and reach much higher concentrations, as has been observed.

During the latest site visit on December 19, 1993, concentrations of hydrocarbons and oxygen in the extracted soil vapors were measured. Soil vapors contained 7% of the lower explosive limit (LEL) of hydrocarbon vapors and 20.3% oxygen (O<sub>2</sub>). These particular concentrations correspond to extraction rates of 23 lb/day as volatiles and an additional 17 lb/day of gasoline degraded and extracted as CO<sub>2</sub>.

During February, another report will be issued to document the hydrocarbon recovery and system performance during December and January. This particular site has presented some very interesting challenges. Geraghty & Miller appreciates the opportunity to engineer creative solutions to achieve these time and cost savings.

Sincerely,  
GERAGHTY & MILLER, INC.

*David B. Thomas*

David B. Thomas  
Project Engineer/Project Manager

Attachments: Table 1      Pounds Extracted in 1993 as VOCs Based on Temperature Chart  
Recorder Data

*Project No. RC0085.003*







# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
(408) 995-5535  
FAX (408) 293-8773

October 4, 1993

Clint Rogers  
Chevron U.S.A. Products Company  
2410 Camino Ramon  
San Ramon, CA 94583-0804

3rd Quarter 1993 monitoring at 9-2582

Third Quarter 1993 Groundwater Monitoring at  
Chevron Service Station number 9-2582  
7240 Dublin Boulevard  
Dublin, California

Monitoring performed Septemer 16, 1993

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## Groundwater Sampling Report 930916-W-2

This report covers the routine quarterly monitoring of groundwater wells at this former Chevron facility. Blaine Tech Services, Inc. work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Chevron's Richmond Refinery for disposal.

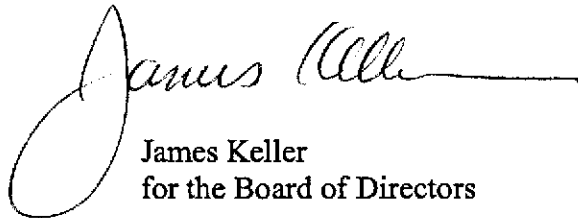
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Blaine Tech Services, Inc. employs the services of outside professional firms to conduct independent reviews of our methodologies. Independent Professional Reviews by a certified engineering geologist are directed to the evaluating the efficacy of procedures and equipment employed by Blaine Tech Services, Inc. personnel in the conduct of our technical assignments. Independent Professional Reviews are intentionally limited in scope and do not extend to characterizing environmental conditions at the site or making recommendations.

Yours truly,



James Keller  
for the Board of Directors

JPK/kkl

attachments: Cumulative Table of Field Data and Analytical Results  
Analytical Appendix  
Professional Engineering Appendix

## Cumulative Table of Well Data and Analytical Results

Verical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
<b>EA-1</b>										
10/17/88	333.41	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/24/88	333.41	322.77	10.64	gauging	--	--	--	--	--	--
11/02/88	333.41	322.72	10.69	gauging	--	--	--	--	--	--
12/20/88	333.41	322.90	10.51	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/28/89	333.41	323.54	9.87	--	<250	<0.5	<0.5	<0.5	<0.5	--
08/02/89	333.41	323.07	10.34	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	333.41	322.76	10.65	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0
01/25/90	333.41	322.81	10.60	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/90	333.41	322.83	10.58	--	71	2.0	5.0	3.0	8.0	<0.5
08/01/90	333.41	322.53	10.88	--	300	86	21	10	33	--
10/24/91	333.41	322.29	11.12	--	280	69	13	11	16	--
01/31/91	333.41	322.25	11.16	--	460	160	11	17	17	--
08/21/91	333.41	322.61	10.80	--	2400	400	220	44	120	--
08/21/91	333.41	--	--	duplicate	2300	390	210	42	120	--
10/07/91	333.41	322.62	10.79	not sampled	--	--	--	--	--	--
01/28/92	333.41	322.62	10.79	--	3600	320	360	110	310	--
01/28/92	333.41	--	--	duplicate	3000	290	320	99	270	--
06/05/92	333.41	322.57	10.84	--	1700	290	89	61	130	--
09/30/92	333.41	322.35	11.06	--	2100	160	260	80	350	--
12/30/92	333.41	323.26	10.15	sheen, odor	3200	240	180	110	310	--
03/29/93	333.41	323.99	9.42	odor	23000	700	3000	610	--	--
06/25/93	333.41	322.99	10.42	--	2700	130	590	130	590	--
09/16/93	333.41	322.75	10.66	--	3900	410	830	220	890	--

## Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
<b>EA-2</b>										
10/17/88	332.59	--	--	--	<50	<0.5	<0.5	<0.5	1.2	--
10/24/88	332.59	322.89	9.70	gauging	--	--	--	--	--	--
11/02/88	332.59	322.56	10.03	gauging	--	--	--	--	--	--
12/20/88	332.59	322.61	9.98	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/28/89	332.59	323.79	8.80	--	<250	<2.	<0.5	<0.5	<0.5	<0.5
08/02/89	332.59	323.15	9.44	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	332.59	323.06	9.53	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0
01/25/90	332.59	323.32	9.27	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/90	332.59	323.24	9.35	--	<50	0.6	0.8	<0.5	2.0	<0.5
08/01/90	332.59	322.88	9.71	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/24/90	332.59	322.51	10.08	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	332.59	322.38	10.21	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	332.59	--	--	duplicate	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	332.59	322.79	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/07/91	332.59	322.61	9.98	not sampled	--	--	--	--	--	--
01/28/92	332.59	322.78	9.81	--	<50	0.8	<0.5	<0.5	<0.5	--
06/05/92	332.59	322.73	9.86	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	332.59	321.99	10.60	--	66	1.0	3.2	1.3	7.4	--
12/30/92	332.59	323.48	9.11	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	332.59	324.86	7.73	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/25/93	332.59	323.37	9.22	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/16/93	332.59	322.59	10.00	--	<50	<0.5	<0.5	<0.5	<1.5	--



## Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
<b>EA-3</b>										
10/17/88	333.64	--	--	--	<50	1.8	<0.5	<0.5	3	--
10/24/88	333.64	322.61	11.03	gauging	--	--	--	--	--	--
11/02/88	333.64	322.61	11.03	gauging	--	--	--	--	--	--
12/20/88	333.64	322.68	10.96	--	240	90	1.2	13	3.3	--
03/28/89	333.64	322.87	9.77	--	2300	380	130	240	910	--
08/02/89	333.64	322.99	10.65	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	333.64	322.86	10.78	--	<500	<3.0	<5.0	<5.0	<5.0	<5.0
01/25/90	333.64	322.98	10.66	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/90	333.64	322.96	10.68	--	<50	0.8	<0.5	0.9	<0.5	<0.5
08/01/90	333.64	322.61	11.03	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/24/90	333.64	322.29	11.35	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	333.64	322.12	11.52	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	333.64	--	--	not sampled	--	--	--	--	--	--
10/07/91	333.64	322.49	11.15	--	180	40	20	4.7	8.4	--
10/07/91	333.64	--	--	duplicate	200	43	17	4.1	6.7	--
01/28/92	333.64	322.12	11.08	--	640	69	85	13	46	--
06/05/92	333.64	322.66	10.98	--	250	63	8.3	3.0	9.5	--
09/30/92	333.64	322.26	11.38	--	330	120	33	6.3	22	--
12/30/92	333.64	323.16	10.48	--	58	7.6	1.3	2.5	5.4	--
03/29/93	333.64	324.34	9.30	--	120	11	4.5	6.2	13	--
06/25/93	333.64	323.18	10.46	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/16/93	333.64	322.74	10.90	--	85	3.9	8.8	4.5	22	--

## Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
<b>PVC</b>										
08/02/89	--	--	11.52	--	100000	8700	14000	1700	17000	50
08/02/89	--	--	--	duplicate	110000	9200	14000	1800	13000	50
11/06/89	--	--	--	--	--	--	--	--	--	--

### EQUIPMENT BLANK

03/28/89	--	--	--	--	<250	<0.5	<0.5	<0.5	<0.5	--
----------	----	----	----	----	------	------	------	------	------	----

## Cumulative Table of Well Data and Analytical Results

Vertical measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	1,2-DCA
<b>TRIP BLANK</b>										
07/28/89	--	--	--	--	<50	<0.1	<0.1	<0.1	<0.1	<0.1
11/06/89	--	--	--	--	<500	<3.0	<0.5	<0.5	<0.5	<0.5
01/25/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/01/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/24/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/31/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/07/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/28/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/29/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/25/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/16/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on September 30, 1992. Earlier field data and analytical results are drawn from the July 13, 1992 RENSA report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydroca

1,2-DCA = 1,2-Dichloroethane

# Analytical Appendix



# Superior Precision Analytical, Inc.

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

Blaine Tech Services, Inc.  
Attn: Jim Keller

Project 930916-W2  
Reported 09/25/93

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
90020- 1	EA2	09/16/93	09/24/93 Water
90020- 2	EA3	09/16/93	09/24/93 Water
90020- 3	EA1	09/16/93	09/24/93 Water
90020- 4	TB-LB	09/16/93	09/25/93 Water

## RESULTS OF ANALYSIS

Laboratory Number: 90020- 1 90020- 2 90020- 3 90020- 4

Gasoline:	ND<50	85	3900	ND<50
Benzene:	ND<0.5	3.9	410	ND<0.5
Toluene:	ND<0.5	8.8	830	ND<0.5
Ethyl Benzene:	ND<0.5	4.5	220	ND<0.5
Total Xylenes:	ND<1.5	22	890	ND<1.5
Concentration:	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: 90020

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:	91/91	0%	70-130
Benzene:	99/107	8%	70-130
Toluene:	101/108	7%	70-130
Ethyl Benzene:	108/112	4%	70-130
Total Xylenes:	105/108	3%	70-130

 9/25/93

Senior Chemist

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

Chevron Facility Number 9-2582  
 Facility Address 7240 Dublin Blvd Dublin  
 Consultant Project Number 930914-W2  
 Consultant Name Blaine Tech Services  
 Address 985 Timothy Dr San Jose CA 95133  
 Project Contact (Name) Tim Keller  
 (Phone) TOP 995-5535 (Fax Number)

Chevron Contact (Name) Clint Rogers  
 (Phone) 510 842-8658  
 Laboratory Name Superior  
 Laboratory Release Number 261 Z 800  
 Samples Collected by (Name) DON WELTZ  
 Collection Date 9/16/98  
 Signature Don Weltz

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											Remarks							
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Greases (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)											
EA2		3	W		1510	HCl	Y	X																		DO NOT BILL FOR TB-LB
EA3		3	W		1550		Y	X																		
EA1		3	W		1625		Y	X																		
TB		2	W		-		Y	X																		

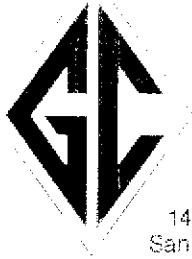
Place Initial: WD  
 Samples stored in ice. AS  
 Samples in original containers. AS  
 Samples preserved. AS  
 Vials without headspace. AS  
 Comments: 4-2

COC-3.DWG/03 01/1/98

Relinquished By (Signature) <u>Don Weltz</u>	Organization <u>BTS</u>	Date/Time <u>9/17/93 14:06</u>	Received By (Signature) <u>Wayne Danley</u>	Organization <u>AERO</u>	Date/Time <u>9-17-93/1406</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>Wayne Danley</u>	Organization <u>AERO</u>	Date/Time <u>9/16/93 1625</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Clint Rogers</u>		Date/Time <u>9/17/93 4:30pm</u>	

# **Professional Engineering Appendix**





**GEOCONSULTANTS, INC.**

*Engineering Geology • Hydrogeology  
Ground-Water Exploration & Development  
Ground-Water Resource Management*

1450 Koll Circle, Suite 114  
San Jose, California 95112  
**Telephone: (408) 453-2541**  
Fax: (408) 453-2543

September 23, 1993  
Project No. G758-09

Mr. Richard Blaine  
Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133

**RE: GROUND-WATER ELEVATION CONTOUR MAP  
FORMER CHEVRON SERVICE STATION NO. 9-2582  
7240 DUBLIN BOULEVARD  
DUBLIN, CALIFORNIA**

Dear Mr. Blaine:

In accordance with your request, we have prepared a map showing the most recent ground-water elevation contours at this site. The depth to the water table was measured in the monitoring wells by Blaine Tech Services, Inc. on September 16, 1993. The ground-water elevation contours extrapolation and the general direction of the ground-water gradient indicated, are to be considered only approximate in nature.

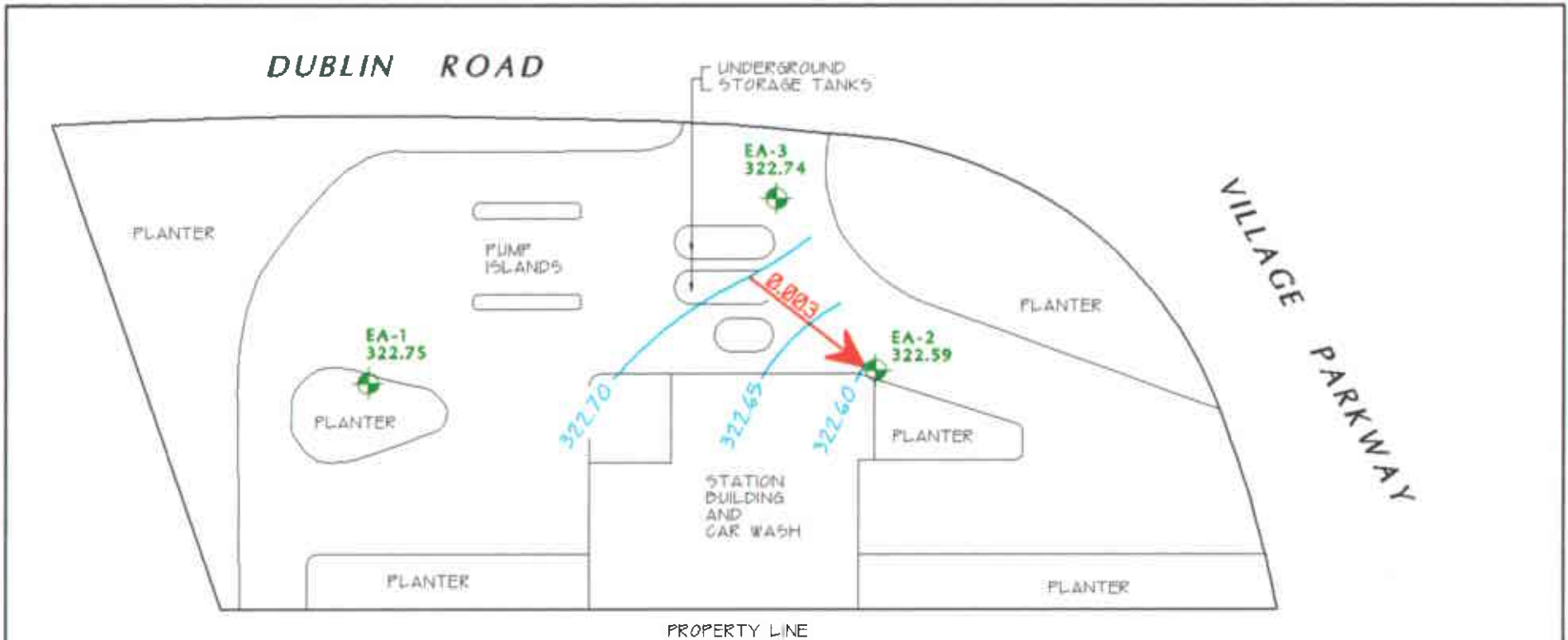
If you have any questions regarding the map, please call.

Very truly yours,




**GEOCONSULTANTS, INC.**

  
John K. Hofer  
Engineering Geologist, EG-1065


JKH:dw  
(CH92582.993)



**EXPLANATION**

- EA-1  GROUND-WATER MONITORING WELL
- 322.75 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
-  322.70 GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
-  0.003 APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



NOTES:	TITLE : GROUND-WATER ELEVATION CONTOUR MAP - SEPTEMBER 16, 1993		GEOCONSULTANTS, INC	
	LOCATION : FORMER CHEVRON SERVICE STATION #9-2582 7240 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA		Project No. G758-09	
	SOURCE : RESNA		DRWG NO: W091693 REV:	