



January 19, 1994

Brett Hunter  
Chevron USA Products Company  
P.O. Box 5004  
San Ramon, CA 94583

Re: Chevron Service Station #9-5542  
7007 San Ramon Road  
Dublin, California  
SES Project #1-214-04

Dear Mr. Hunter:

This report presents the results of the quarterly ground water sampling at Chevron Service Station #9-5542, located at 7007 San Ramon Road in Dublin, California. Nine wells, MW-1 through MW-9, were sampled (Figure 1).

On December 8, 1994, SES personnel visited the site. Water level measurements were collected from six wells and all were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells. Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on December 8, 1994, in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field waer sampling forms for this event are included. All analyses were performed by GTEL of Concord, California. Analytic results for ground water are presented in Table 1. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.



Sincerely,  
Sierra Environmental Services

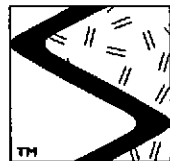
Richard E. (Rick) Hilton  
Staff Environmental Scientist

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- Attachments:
- Figure
  - Tables
  - SES Standard Operating Procedure
  - Field Water Sampling Forms
  - Chain of Custody Document and Laboratory Analytic Reports



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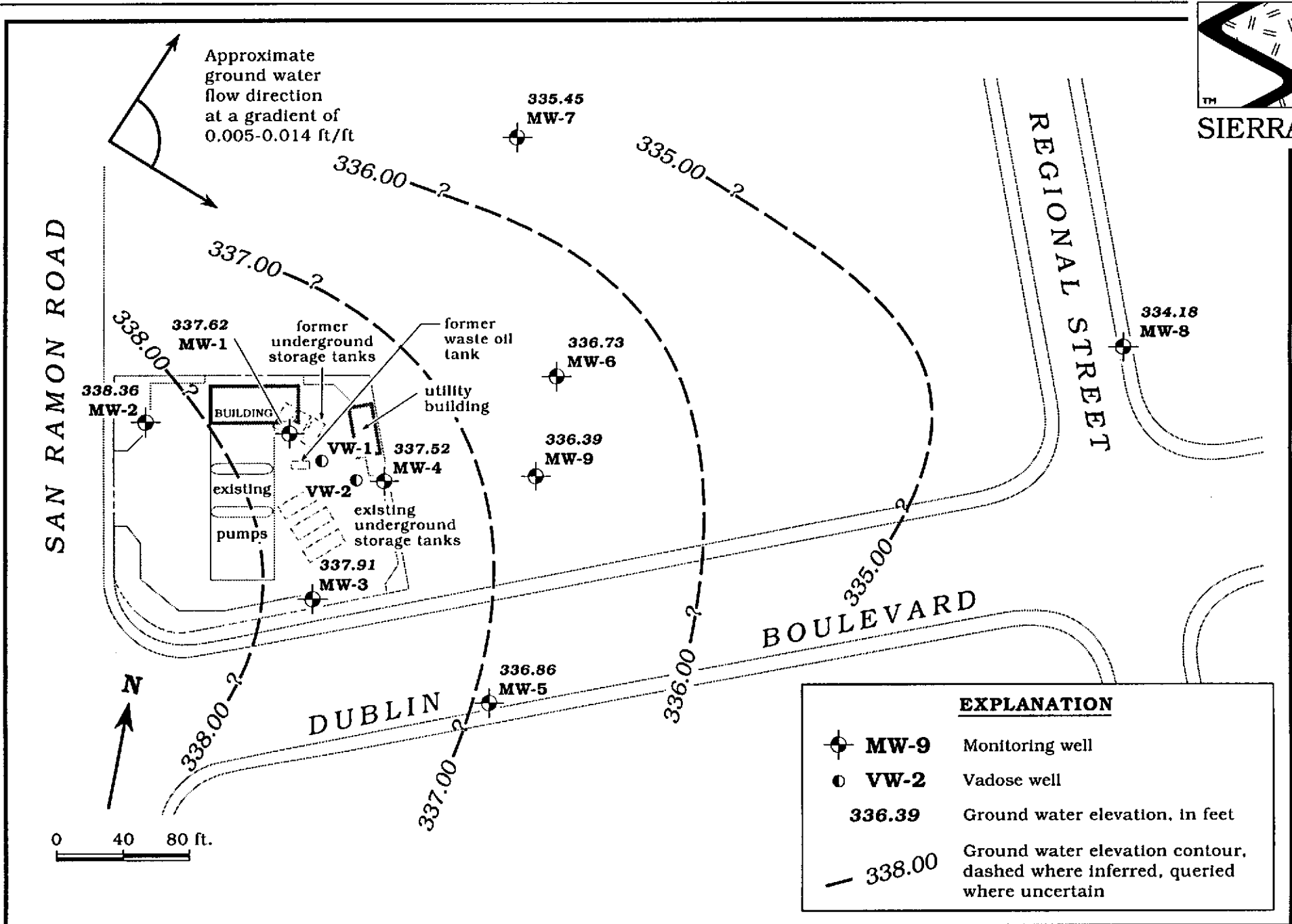
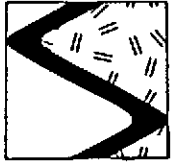


Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - December 8, 1994 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) ←-----	O&G	B	T	E	X	Other HVOCs	1,2-DCA	EDB	OL	----->ppb	
MW-1/ (D)	4/3-4/90	---	---	---	8015/602/504	46,000	---	8,400	7,400	860	5,600	---	---	1.04	---	---	---
	4/3-4/90	---	---	---	8015/602/504	43,000	---	8,400	7,200	840	5,200	---	---	1.1	---	---	---
363.98 <sup>1</sup>	5/31/91	25.67	338.31	0	8015/8020/8010	31,000	---	7,400	2,500	630	2,100	ND <sup>b</sup>	2	---	---	---	---
	5/31/91	---	---	---	503E	---	<5,000	---	---	---	---	---	---	---	---	---	---
	6/21/91	26.23	337.75	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.53	337.45	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020/8010	31,000	---	3,000	2,800	610	3,100	ND <sup>b</sup>	0.6	---	---	---	---
	10/4/91	27.90	336.08	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	28.12	335.86	0	8015/8020/8010	20,000	---	5,200	1,700	560	2,000	ND <sup>b</sup>	3.3	---	---	---	---
	3/19/92	24.63	339.35	0	8015/8020/8010	30,000	---	8,500	3,600	590	2,400	ND <sup>b</sup>	2.7	---	---	---	---
364.32 <sup>2</sup>	6/19/92	26.23	338.09	0	8015/8020	25,000	---	1,100	2,000	520	1,800	---	---	---	---	---	---
	9/22/92	27.73	336.59	0	8015/8020	21,000	---	8,000	3,500	670	2,900	---	---	---	---	---	---
	12/18/92	26.76	337.56	0	8015/8020	79,000	---	12,000	12,000	1,600	8,500	---	---	---	---	---	---
	3/10/93 <sup>6,13</sup>	---	---	---	8015/8020	45,000	---	16,000	14,000	1,100	5,500	---	---	---	---	---	---
	3/22/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/23/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/21/94	26.16	338.16	0	8015/8020	5,900	---	1,600	560	140	330	---	---	---	---	---	---
	7/6/94	27.20	337.12	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	8/26/94	---	---	---	8015/8020	20,000	---	5,300	4,900	610	2,900	---	---	---	---	---	---
	9/22/94	27.44	336.88	0	8015/8020	42,000	---	10,000	8,300	1,000	4,900	---	---	---	---	---	---
	12/8/94	26.70	337.62	---	8015/8020	38,000	---	9,000	7,700	830	3,800	---	---	---	---	---	---
MW-2/ 364.19 <sup>1</sup>	4/3-4/90	---	---	---	8015/602/504	<50	---	<0.3	<0.3	<0.3	<0.6	---	---	<0.02	---	---	---
	5/31/91	25.51	338.68	0	8015/8020/8010	100	---	3.1	4.2	0.7	2.0	ND <sup>b</sup>	<0.5	---	---	---	---
	5/31/91	---	---	---	503E	---	<5,000	---	---	---	---	---	---	---	---	---	---
	6/21/91	26.13	338.06	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.46	337.73	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020	68	---	1.3	1.6	0.8	3.0	---	---	---	---	---	---
	10/4/91	27.79	336.40	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	28.06	336.13	0	8015/8020	<50	---	0.6	1.2	0.8	2.5	---	---	---	---	---	---
	3/19/92	24.46	339.73	0	8015/8020	<50	---	2.5	2.0	1.1	2.4	---	---	---	---	---	---
364.64 <sup>2</sup>	6/19/92	26.10	338.54	0	8015/8020	<50	---	<0.5	0.6	0.7	1.2	---	---	---	---	---	---
	9/22/92	27.60	337.04	0	8015/8020	200	---	16	42	6.1	32	---	---	---	---	---	---
	12/18/92	26.32	338.32	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/22/93	21.39	343.29	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	6/14/93	25.15	339.49	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	24.52	340.12	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---

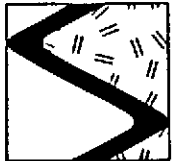


Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	O&G	B	T	E	X	Other HVOCs	1,2-DCA	EDB	OL
MW-2	9/23/93	25.63	339.01	0	8015/8020	72	---	12	4	6	8	---	---	---	---
(cont)	12/22/93	26.34	338.30	0	8015/8020	1,600	---	25	<0.5	3.8	4.8	---	---	---	---
	3/21/94	25.83	338.81	0	8015/8020	<50	---	0.7	3.3	<0.5	1.9	---	---	---	---
	6/29/94	---	---	---	8015/8020	52	---	0.8	0.9	0.8	1.9	---	---	---	---
	7/6/94	26.70	337.94	0	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	26.82	337.82	0	8015/8020	<50	---	0.7	<0.5	<0.5	0.6	---	---	---	---
	12/8/94	26.28	338.36	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
MW-3/ 361.92 <sup>1</sup>	4/3-4/90	---	---	---	8015/602/504	2,200	---	36	5	6	17	---	---	<0.02	---
	5/31/91	23.20	338.72	0	8015/8020/8010	2,200	---	130	11	31	78	ND <sup>b</sup>	19	---	---
	5/31/91	---	---	---	503E	---	<5,000	---	---	---	---	---	---	---	---
	6/21/91	24.13	337.79	0	---	---	---	---	---	---	---	---	---	---	---
	7/17/91	24.59	337.73	0	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	25.98	335.94	0	8015/8020	2,200	---	190	6.0	24	32	---	---	---	---
	12/19/91	26.24	335.68	0	8015/8020	640	---	73	27	17	56	---	---	---	---
	3/19/92	22.46	339.46	0	8015/8020	4,500	---	1,000	15	91	240	---	---	---	---
362.26 <sup>2</sup>	6/19/92	24.32	337.94	0	8015/8020	1,100	---	89	3.3	9.1	13	---	---	---	---
	9/22/92	25.84	336.42	0	8015/8020	1,400	---	81	51	15	49	---	---	---	---
	12/18/92	24.40	337.86	0	8015/8020	1,100	---	2.0	1.1	53	38	---	---	---	---
	3/22/93	19.72	342.54	0	8015/8020	1,600	---	96	9	14	91	---	---	---	---
	6/14/93	23.52	338.74	0	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	23.21	339.05	0	8015/8020	1,200	---	19	6	2	5	---	---	---	---
	9/23/93	24.02	338.24	0	8015/8020	1,500	---	35	<0.5	5	13	---	---	---	---
	12/22/93	24.67	337.59	0	8015/8020	1,500	---	26	<0.5	3.9	4.9	---	---	---	---
	3/21/94	24.05	338.21	0	8015/8020	1,400	---	22	14	1.1	5.3	---	---	---	---
	6/29/94	---	---	---	8015/8020	1,700	---	90	6.1	20	81	---	---	---	---
	7/6/94	25.08	337.18	0	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	24.78	337.48	0	8015/8020	2,600	---	72	7.6	110	370	---	---	---	---
	12/8/94	24.35	337.91	0	8015/8020	2,700	---	32	<0.5	100	140	---	---	---	---
MW-4/ 362.70 <sup>1</sup>	4/3-4/90	---	---	---	8015/413.1/602/504	43,000	18,000	4,000	5,000	790	5,500	---	---	<0.02	---
	4/3-4/90	---	---	---	624**	---	---	6,000	8,200	1,500	---	---	---	---	---
	5/31/91	24.67	338.03	0	8015/8020/8010	34,000	---	2,900	2,900	680	3,300	ND <sup>b</sup>	<0.5	---	---
	5/31/91	---	---	---	503E	<5,000	---	---	---	---	---	---	---	---	---
	6/21/91	25.31	337.39	0	---	---	---	---	---	---	---	---	---	---	---
	7/17/91	25.73	336.97	0	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020/8010	37,000	---	4,000	3,200	580	3,000	ND <sup>b</sup>	9.2	---	---







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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <-----	O&G	B	T	E	X	Other HVOCs	1,2-DCA	EDB	OL	-----ppb----->				
MW-7 (cont)	3/22/93 <sup>5</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	6/14/93 <sup>5</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
	7/25/93 <sup>5</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
361.68 <sup>6</sup>	12/23/93	23.67	338.01	0	8015/8020	<50	---	0.9	0.5	<0.5	<0.5	---	---	---	---	---				
	3/21/94	24.13	337.55	0	8015/8020	<50	---	0.5	1.1	<0.5	1.4	---	---	---	---	---				
	6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
	7/6/94	26.45	335.23	0	---	---	---	---	---	---	---	---	---	---	---	---				
	9/22/94	27.40	334.28	0	8015/8020	11,000	---	1,900	230	310	970	---	---	---	---	---				
	12/8/94	26.23	335.45	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
MW-8/ ---	12/12/91	22.54	---	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
354.89 <sup>7</sup>	6/19/92	20.47	334.42	0	8015/8020	<50	---	1.2	1.4	0.5	2.9	---	---	---	---	---				
	9/22/92	29.80	325.09	0	8015/8020	180	---	17	42	6.0	31	---	---	---	---	---				
	12/18/92	21.18	333.71	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
	3/10/93	---	---	---	8015/8020	<50	---	0.8	2	<0.5	2	---	---	---	---	---				
	3/22/93	16.91	337.98	0	---	---	---	---	---	---	---	---	---	---	---	---				
	6/14/93	24.30	330.59	0	---	---	---	---	---	---	---	---	---	---	---	---				
	7/25/93	23.77	331.12	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
	9/23/93	20.40	334.49	0	8015/8020	<50	---	1	0.9	0.7	1	---	---	---	---	---				
	12/22/93	20.92	333.97	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
	3/21/94	20.19	334.70	0	8015/8020	<50	---	0.9	1.5	<0.5	2	---	---	---	---	---				
	6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	0.8	---	---	---	---	---				
	7/6/94	21.05	333.84	0	---	---	---	---	---	---	---	---	---	---	---	---				
	9/22/94	21.84	333.05	0	8015/8020	9,600	---	1,600	180	260	840	---	---	---	---	---				
	10/14/94	21.84	333.05	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
	12/8/94	20.71	334.18	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
MW-9/ 361.23 <sup>7</sup>	7/6/94	25.15	336.08	0	---	---	---	---	---	---	---	---	---	---	---	---				
	8/26/94	---	---	---	8015/8020	12,000	---	1,700	240	410	1,400	---	---	---	---	---				
	9/22/94	25.74	335.49	0	8015/8020	10,000	---	1,900	290	320	1,200	---	---	---	---	---				
	12/8/94	24.84	336.39	0	8015/8020	18,000	---	2,400	780	450	4,600	---	---	---	---	---				
Trip Blank MW-AA	5/31/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				
	6/21/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---				



Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) ←-----	O&G	B	T	E	X	Other			
												-----> ppb			
												HVOCs	1,2-DCA	EDB	OL
MW-AA	9/20/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
(cont)	12/19/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
TB-LB	6/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/22/92	---	---	---	8015/8020	92 <sup>12</sup>	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/18/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/10/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	7/25/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/21/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	7/1/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	7/6/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/22/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/8/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
Bailer Blank															
MW-BB	5/31/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/21/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/20/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/19/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/22/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	0.8	---	---	---	---
	12/21/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/10/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	0.6	---	---	---	---
	7/25/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/21/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---





Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California  
(continued)

EXPLANATION:

DTW = Depth to water  
TOC = Top of casing elevation  
GWE = Ground water elevation  
msl = Measurements referenced relative to mean sea level  
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline  
O&G = Oil and Grease  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes  
HVOCS = Halogenated Volatile Organic Compounds  
1,2-DCA = 1,2-Dichloroethane  
EDB = Ethylene dibromide  
OL = Organic lead  
ppb = Parts per billion  
D = Duplicate sample  
ND = Not detected (see notes)  
--- = Not available/not applicable

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)  
602 = EPA Method 602 for BTEX  
504 = EPA Method 504 for EDB  
8020 = EPA Method 8020 for BTEX  
8010 = EPA Method 8010 for HVOCS  
503E = Standards Methods Method 503E for O&G

ANALYTIC METHODS: (continued)

413.1 = EPA Method 413.1 for total O&G  
624 = EPA Method 624 for BTEX and VOCs  
5520 = Standard Methods Method 5520 for O&G  
LUFT = DHS LUFT Manual Method for OL

NOTES:

- Analytic data was compiled from a draft report prepared by Chempro, undated.
- \* Product thickness was measured with an MMC flexi-dip interface probe.
  - <sup>1</sup> Top of casing elevations for monitoring wells MW-1 through MW-7 were surveyed by Ron Miller, Professional Engineer #15816 on June 26, 1991.
  - <sup>2</sup> Top of casing elevations for monitoring wells MW-1 through MW-8 were surveyed by Kier & Wright of Pleasanton, California on December 12, 1991. Survey data received by SES on April 30, 1992.
  - <sup>3</sup> Well could not be located on this date due to surface conditions from recent discing.
  - <sup>4</sup> Monitoring well part of remediation system.
  - <sup>5</sup> Monitoring well not located since March 1992 sampling event.
  - <sup>6</sup> Top of casing elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.
  - <sup>7</sup> Monitoring well surveyed by Ron Miller, PE #15816, on July 5, 1994.
  - <sup>8</sup> Other HVOCS were not detected at detection limits ranging from 0.5 to 1 ppb.
  - <sup>9</sup> Chloroform and bromodichloromethane were detected at 1.3 and 0.9 ppb, respectively. Other HVOCS were not detected at detection limits ranging from 0.5 to 1 ppb.
  - <sup>10</sup> A non-standard gasoline pattern was observed in the chromatogram.
  - <sup>11</sup> Uncategorized compound not included in gasoline total.
  - <sup>12</sup> Gasoline range concentration reported. The chromatogram shows only a single peak in the gasoline range.
  - <sup>13</sup> Analytic results provided by Chevron Project Manager.
  - <sup>14</sup> TPPH(G) and BTEX results are estimated concentrations. Due to laboratory error, sample was analyzed past the recommended holding time. (GTCL)



## **SES STANDARD OPERATING PROCEDURE GROUND WATER SAMPLING**

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed  $\pm 0.5^{\circ}\text{F}$ , 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with Chevron designated disposable bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at  $4^{\circ}\text{C}$ ) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank accompanies each sampling set, or 5% trip blanks are included for sets of greater than 20 samples. The trip blank is analyzed for some or all of the same compounds as the ground water samples.



### WATER SAMPLING DATA

Job Name San Roman Rd. Dublin Job Number 1-214-04  
 Well Number TB/LB Date 12/08/94  
 Sample Point Location/Description \_\_\_\_\_  
 Depth to Water (static) \_\_\_\_\_ Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing \_\_\_\_\_ Volume \_\_\_\_\_ gallons  
 Volume to be purged \_\_\_\_\_ gallons  
 Purged With pump Sampled With Disp. Baler  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler \_\_\_\_\_  
 Well Diameter \_\_\_\_\_  
 Well Depth (spec.) \_\_\_\_\_

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{1/2}$  casing = 0.163 gal/ft  
 $V_{1/4}$  casing = 0.367 gal/ft  
 $V_{3/8}$  casing = 0.653 gal/ft  
 $V_{1/2}$  casing = 0.826 gal/ft  
 $V_{3/4}$  casing = 1.47 gal/ft  
 $V_{1}$  casing = 2.61 gal/ft

#### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time \_\_\_\_\_ Total volume purged (gal.) \_\_\_\_\_  
 Water color \_\_\_\_\_ Odor \_\_\_\_\_  
 Description of sediments or material in sample: \_\_\_\_\_  
 Additional Comments: \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
TB/LB	2	1	-	HCl	Y	GTCL	G/13TEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Roman Rel. Dublin Job Number 1-214-04  
 Well Number MW-1 Date 12/1/94  
 Sample Point Location/Description E side Front of BLD  
 Depth to Water (static) 26.70 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 24.3 Volume 15.86 gallons  
 Volume to be purged \_\_\_\_\_ 47.6 gallons  
 Purged With pump Sampled With Disp Borden  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler T.L.  
 Well Diameter 4'  
 Well Depth (spec.) 51

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 $vol. in cyl. = \pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_1^* casing = 0.163 gal/ft$   
 $V_2^* casing = 0.367 gal/ft$   
 $V_3^* casing = 0.653 gal/ft$   
 $V_4^* casing = 0.826 gal/ft$   
 $V_5^* casing = 1.47 gal/ft$   
 $V_6^* casing = 2.61 gal/ft$

#### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1559	1526	20	20	8.3	57.4	1370	
	1604	15	35	8.8	56.1	1390	
	1702	15	50	8.7	55.2	1380	

SAMPLES COLLECTED Time 710 Total volume purged (gal.) 50  
 Water color clear Odor sediment  
 Description of sediments or material in sample: \_\_\_\_\_  
 Additional Comments: \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-1	2	1	-	HCl	Y	GTEL	G/ISTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Ramon Rd, Dublin Job Number 1-214-04  
 Well Number MW-2 Date 12/08/94  
 Sample Point Location/Description DW curber site in Grass  
 Depth to Water (static) 26.28 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 12.72 Volume 2.07 gallons  
 Volume to be purged \_\_\_\_\_ 6.2 gallons  
 Purged With PUMP Sampled With Disp Beaker  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler T.L.  
 Well Diameter 2"  
 Well Depth (spec.) 39

**Formulas/Conversions**  
 r = well radius in ft  
 h = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{1\text{ casing}} = 0.163 \text{ gal/ft}$   
 $V_{2\text{ casing}} = 0.367 \text{ gal/ft}$   
 $V_{3\text{ casing}} = 0.653 \text{ gal/ft}$   
 $V_{4\text{ casing}} = 1.47 \text{ gal/ft}$   
 $V_{5\text{ casing}} = 2.61 \text{ gal/ft}$

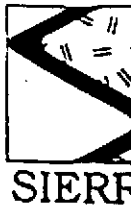
### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1328	1333	2	2	9.9	6	1010	
	1337	2.5	5.5	9.6	2	940	
	1341	2.5	7	9.6	6.5	950	

SAMPLES COLLECTED Time 1350 Total volume purged (gal.) 7  
 Water color clear Odor \_\_\_\_\_  
 Description of sediments or material in sample: light TAN  
 Additional Comments: + 170 L due to effluence

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-2	2	1	-	HET +	Y	GTCL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Ramon Rd. Dublin Job Number 1-214-04  
 Well Number MW-3 Date 12/08/94  
 Sample Point Location/Description S. side site in wood chips  
 Depth to Water (static) 24.35 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 12.65 Volume 2.06 gallons  
 Volume to be purged \_\_\_\_\_ 6.2 gallons  
 Purged With PUMP Sampled With Disp. Boiler  
 Pumped or Bailed Dry? Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler TL  
 Well Diameter 2"  
 Well Depth (spec.) 37

**Formulas/Conversions**  
 r = well radius in ft  
 h = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 V<sub>2"</sub> casing = 0.163 gal/ft  
 V<sub>3"</sub> casing = 0.367 gal/ft  
 V<sub>4"</sub> casing = 0.653 gal/ft  
 V<sub>5"</sub> casing = 0.826 gal/ft  
 V<sub>6"</sub> casing = 1.47 gal/ft  
 V<sub>8"</sub> casing = 2.61 gal/ft

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1444	1455	2	2	9.7	54	1670	
	1457	2.5	4.5	9.5	60	1650	
	1458	2.5	7	9.5	65	1690	

SAMPLES COLLECTED Time 1457 Total volume purged (gal.) (7)  
 Water color 2000 Odor Slit - Hydrocarbon  
 Description of sediments or material in sample: 1.5% AN  
 Additional Comments: \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-3	2	1	-	HCl	Y	GTCL	G/ISTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Ramon Val. Dublin Job Number 1-214-04  
 Well Number mw-4 Date 12/08/94  
 Sample Point Location/Description EAST SIDE SITE in Shrubbs  
 Depth to Water (static) 25.55 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 10.45 Volume 1.70 gallons  
 Volume to be purged \_\_\_\_\_ 5.1 gallons  
 Purged With pump Sampled With Disp. Bottle  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler T.L.  
 Well Diameter 2  
 Well Depth (spec.) 36

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 $vol. in cyl. = \pi r^2 h$   
 $7.48 gal/ft^3$   
 $V_{1/2} casing = 0.163 gal/ft$   
 $V_{1/4} casing = 0.367 gal/ft$   
 $V_{3/8} casing = 0.653 gal/ft$   
 $V_{1/2} casing = 0.826 gal/ft$   
 $V_{3/4} casing = 1.47 gal/ft$   
 $V_{1} casing = 2.61 gal/ft$

#### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1725	1727	2	2	9.0	53	1370	
	1730	2	4	9.7	54	240	
	1757	2	6	7.5	52	1300	

SAMPLES COLLECTED Time 2 Total volume purged (gal.) 6  
 Water color \_\_\_\_\_ Odor \_\_\_\_\_  
 Description of sediments or material in sample: \_\_\_\_\_  
 Additional Comments: \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
mw-4	2	1	-	HCl	Y	GTEL	G/ISTEX
mw-4	2	2 R	-	H <sub>2</sub> SO <sub>4</sub>	Y	↓	REG

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Ramon Rd. Dublin Job Number 1-214-04  
 Well Number MW-5 Date 12/08/94  
 Sample Point Location/Description S. Side Dublin Blvd  
 Depth to Water (static) 23.42 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 10.8 Volume 2.05 gallons  
 Volume to be purged \_\_\_\_\_ 6.2 gallons  
 Purged With PUMP Sampled With Disp. Bottle  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler TL  
 Well Diameter 2"  
 Well Depth (spec.) 36

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{10}$  casing = 0.163 gal/ft  
 $V_{20}$  casing = 0.367 gal/ft  
 $V_{30}$  casing = 0.653 gal/ft  
 $V_{40}$  casing = 0.826 gal/ft  
 $V_{50}$  casing = 1.47 gal/ft  
 $V_{60}$  casing = 2.61 gal/ft

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1050	1055	3	3	9.4	61	1380	
	1059	2.5	5.5	9.5	61	1400	
	11	0.5	7	9.4		1400	

SAMPLES COLLECTED Time 113  
 Water color \_\_\_\_\_  
 Description of sediments or material in sample: \_\_\_\_\_  
 Additional Comments: \* 20 ml D.O. + nitrate

Total volume purged (gal.) 7  
 Odor \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>MW-5</u>	<u>2</u>	<u>1</u>	<u>-</u>	<u>HCT *</u>	<u>Y</u>	<u>GTCL</u>	<u>G/BTEX</u>

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_





### WATER SAMPLING DATA

Job Name San Ramon Val. Dublin Job Number 1-214-04  
 Well Number MW-6 Date 12/08/94  
 Sample Point Location/Description E. corner of vacant lot  
 Depth to Water (static) 23.85 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 8.15 Volume 1.33 gallons  
 Volume to be purged \_\_\_\_\_ 3.98 gallons  
 Purged With PUMP Sampled With Disp Borden  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler T.L.  
 Well Diameter 2"  
 Well Depth (spec.) 32

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{10}$  casing = 0.163 gal/ft  
 $V_{20}$  casing = 0.367 gal/ft  
 $V_{30}$  casing = 0.653 gal/ft  
 $V_{40}$  casing = 0.826 gal/ft  
 $V_{50}$  casing = 1.47 gal/ft  
 $V_{60}$  casing = 2.61 gal/ft

#### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1415	1417	2	2	9.8	63.5	1250	
	1419	1	3	9.6	63	1310	
	1421	1	4	9.5	63	1310	

SAMPLES COLLECTED Time 130 Total volume purged (gal.) (4)  
 Water color clear Odor \_\_\_\_\_  
 Description of sediments or material in sample: \_\_\_\_\_  
 Additional Comments: \_\_\_\_\_

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (init)	Analysis Requested
MW-6	2	1	-	HCl	Y	GTEL	G/ISTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



SIERRA

### WATER SAMPLING DATA

Job Name San Ramon Rd. Dublin Job Number 1-214-04 Sampler T.L.  
 Well Number MW-7 Date 12/08/94 Well Diameter 2"  
 Sample Point Location/Description North End Vacant lot. by Fence Well Depth (spec.) 35  
 Depth to Water (static) 26.23 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 8.77 Volume 1.43 gallons  
 Volume to be purged \_\_\_\_\_ 4.3 gallons  
 Purged With PUMP Sampled With Disp. Bailer  
 Pumped or Bailed Dry? Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

**Formulas/Conversions**  
 r = well radius in ft  
 h = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{1/2}$  casing = 0.163 gal/ft  
 $V_{1/3}$  casing = 0.367 gal/ft  
 $V_{1/4}$  casing = 0.653 gal/ft  
 $V_{1/5}$  casing = 0.826 gal/ft  
 $V_{1/6}$  casing = 1.47 gal/ft  
 $V_{1/8}$  casing = 2.61 gal/ft

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1600	1002	2	2	9.8	61	1550	
	1004	2	4	9.5	62	1560	
	1006	..	5	9.4	62	1560	

SAMPLES COLLECTED Time 1017 Total volume purged (gal.) 5  
 Water color clear Odor \_\_\_\_\_  
 Description of sediments or material in sample: \_\_\_\_\_  
 Additional Comments: to 10:15

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-7	2	1	-	HET-2	Y	GTCL	G/13TEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Ramon Ref. Dublin Job Number 1-214-04  
 Well Number MW-8 Date 12/08/94  
 Sample Point Location/Description EAST SIDE REGIONAL Ct. Sidewalk  
 Depth to Water (static) 20.71 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 13.29 Volume 2.16 gallons  
 Volume to be purged \_\_\_\_\_ 6.5 gallons  
 Purged With pump Sampled With Disp. Bottle  
 Pumped or Bailed Dry? \_\_\_ Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler T.L.  
 Well Diameter 2"  
 Well Depth (spec.) 34

**Formulas/Conversions**  
 r = well radius in ft  
 h = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
~~V<sub>1</sub> casing = 0.163 gal/ft~~  
 V<sub>2</sub> casing = 0.367 gal/ft  
 V<sub>3</sub> casing = 0.653 gal/ft  
 V<sub>4</sub> casing = 0.826 gal/ft  
 V<sub>5</sub> casing = 1.47 gal/ft  
 V<sub>6</sub> casing = 2.61 gal/ft

### CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
0915	0917	3	3	9.4	5.7	1450	
	0920	2	5	9.3	5.2	1500	
	0922	2	7	9.2	5.7	1570	

SAMPLES COLLECTED Time 5:37 Total volume purged (gal.) 7  
 Water color clear Odor \_\_\_\_\_  
 Description of sediments or material in sample: very fine sand  
 Additional Comments: # 10 net used to remove

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-8	2	1	-	HET #	Y	GTCL	G/STEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_



### WATER SAMPLING DATA

Job Name San Ramon Rd. Dublin Job Number 1-214-04  
 Well Number mw-9 Date 12/08/94  
 Sample Point Location/Description S.E. side recent lot  
 Depth to Water (static) 24.84 Well Depth (sounded) \_\_\_\_\_  
 Initial height of water in casing 9.16 Volume 1.49 gallons  
 Volume to be purged \_\_\_\_\_ 4.5 gallons  
 Purged With pump Sampled With Disp. Borden  
 Pumped or Bailed Dry?  Yes  No Time \_\_\_\_\_ After \_\_\_\_\_ gallons  
 Water level at sampling \_\_\_\_\_ Percent Recovery \_\_\_\_\_

Sampler TJ  
 Well Diameter 2"  
 Well Depth (spec.) 34

**Formulas/Conversions**  
 $r$  = well radius in ft  
 $h$  = ht of water col. in ft  
 vol. in cyl. =  $\pi r^2 h$   
 7.48 gal/ft<sup>3</sup>  
 $V_{2.0}$  casing = 0.163 gal/ft  
 $V_{2.5}$  casing = 0.367 gal/ft  
 $V_{3.0}$  casing = 0.653 gal/ft  
 $V_{3.5}$  casing = 0.826 gal/ft  
 $V_{4.0}$  casing = 1.47 gal/ft  
 $V_{4.5}$  casing = 2.61 gal/ft

**CHEMICAL DATA**

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1519	1521	1	1	9.2	58	1550	
	1523	2	3	9.0	60	1510	
	1525	2	5	9.0	60	1500	

SAMPLES COLLECTED Time 4:30 Total volume purged (gal.) (5)  
 Water color clear Odor no odor  
 Description of sediments or material in sample: moderate, fine  
 Additional Comments: no more samples to be collected

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
mw-9	2	1	-	HET X	Y	GTEL	G/ISTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size)  
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size)  
 5 = Other \_\_\_\_\_; 6 = Other \_\_\_\_\_





# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

**Northwest Region**  
4080-C Pike Lane  
Concord, CA 94520  
(510) 685-7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California  
(510) 825-0720 (FAX)

January 12, 1995

Ed Morales  
Sierra Environmental Services  
P.O. Box 2546  
Martinez, CA 94553

---

RE: GTEL Client ID: SIE01CHV08  
Login Number: C4120169  
Project ID (number): SIE01CHV08  
Project ID (name): Chevron # 0095542, 7007 San Ramon, Dublin, CA

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Dear Ed Morales:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 12/12/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

*Edna P. Shah*

*Rashmi*

Rashmi Shah  
Laboratory Director

GTEL Client ID: SIE01CHV08  
 Login Number: C4120169  
 Project ID (number): SIE01CHV08  
 Project ID (name): Chevron # 0095542, 7007 San Ramon, Dublin, CA

ANALYTICAL RESULTS

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C4120169-01	C4120169-02	C4120169-03	C4120169-04
Client ID	TBLB	MW 8	MW 7	MW 5
Date Sampled	12/08/94	12/08/94	12/08/94	12/08/94
Date Analyzed	12/14/94	12/14/94	12/14/94	12/14/94
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50.	ug/L	< 50.	< 50.	< 50.	< 50.
BFB (Surrogate)	--	%	90.6	89.3	90.4	87.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL Concord, CA  
 C4120169:1



GTEL Client ID: SIE01CHV08 ANALYTICAL RESULTS  
 Login Number: C4120169  
 Project ID (number): SIE01CHV08  
 Project ID (name): Chevron # 0095542, 7007 San Ramon, Dublin, CA

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C4120169-05	C4120169-06	C4120169-07	C4120169-08
Client ID	MM 2	MM 6	MM 3	MM 9
Date Sampled	12/08/94	12/08/94	12/08/94	12/08/94
Date Analyzed	12/14/94	12/14/94	12/14/94	12/15/94
Dilution Factor	1.00	1.00	1.00	50.0

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.5	ug/L	< 0.5	< 0.5	32.	2400
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	780
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	100	450
Xylenes (total)	0.5	ug/L	< 0.5	0.9	140	4600
TPH as GAS	50.	ug/L	< 50.	< 50.	2700	18000
BFB (Surrogate)	--	%	87.3	90.1	143.	86.0

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL Concord, CA  
 C4120169:2





GTEL Client ID: SIE01CHV08 ANALYTICAL RESULTS  
 Login Number: C4120169  
 Project ID (number): SIE01CHV08  
 Project ID (name): Chevron # 0095542, 7007 San Ramon, Dublin, CA

Volatile Organics  
 Method: EPA 8020  
 Matrix: Aqueous

GTEL Sample Number	C4120169-09	C4120169-10		
Client ID	MW 1	MW 4	--	--
Date Sampled	12/08/94	12/08/94	--	--
Date Analyzed	12/15/94	01/12/95	--	--
Dilution Factor	200	10.0	--	--

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.5	ug/L	9000	1200	--	--
Toluene	0.5	ug/L	7700	720	--	--
Ethylbenzene	0.5	ug/L	830	34	--	--
Xylenes (total)	0.5	ug/L	3800	1100	--	--
TPH as GAS	50	ug/L	38000	6700	--	--
BFB (Surrogate)	--	%	89.2	15.5	--	--

Notes:

**Dilution Factor:**

Dilution factor indicates the adjustments made for sample dilution.

**EPA 8020:**

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

**C4120169-10:**

Estimated concentration. Due to laboratory error, sample was analyzed past recommended holding time.

GTEL Concord, CA  
 C4120169:3





**Western Region**  
4080 Pike Lane, Suite C  
Concord, CA 94520  
(510) 685-7852  
(800) 544-3422 Inside CA  
FAX (510) 825-0720

Client Number: SIE01CHV08  
Consultant Project Number: 1-214-04  
Facility Number: 9-5542  
Project ID: 7007 San Ramon  
Dublin  
Work Order Number: C4-12-0169

January 11, 1995

Ed Morales  
Sierra Environmental Services  
P.O. Box 2546  
Martinez, CA 94553

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/13/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

*fr*  
Rashmi Shah  
Laboratory Director

Client Number: SIE01CHV08  
 Consultant Project Number: 1-214-04  
 Facility Number: 9-5542  
 Project ID: 7007 San Ramon  
 Dublin  
 Work Order Number: C4-12-0169

**ANALYTICAL RESULTS**

**Total Oil and Grease in Water  
 by Gravimetric Analysis**

**EPA Method 413.1a**

a. Methods for Chemical Analysis of Water and Wastes, Revised March 1983, U.S. Environmental Protection Agency.

GTEL Sample Number		10	121594 TOG		
Client Identification		MW4	METHOD BLANK		
Date Sampled		12/08/94	-		
Date Prepared		12/15/94	12/15/94		
Date Analyzed		12/15/94	12/15/94		
Analyte	Detection Limit, mg/L	Concentration, mg/L			
Total Oil and Grease	5	<5	<5		
Detection Limit Multiplier		1	1		

Client Number: SIE01CHV08  
Consultant Project Number: 1-214-04  
Facility Number: 8-5542  
Project ID: 7007 San Ramon  
Dublin  
Work Order Number: C4-12-0169

### QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
TOG/IR <sup>a</sup>	LCS	102.8	mg/L	97.4	95.8	1.7	70 - 130

a. Not enough sample was provided by the client to perform a matrix QC. Laboratory control sample indicated the analysis was within control limits.