

ENVIRONMENTAL
PROTECTION

08 FEB -5 PM 4:10



Chevron

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd. Bldg. L
P. O. Box 6004
San Ramon, CA 94583-0804

**Site Assessment and
Remediation Group**
Phone (510) 842-9500
Fax (510) 842-8370

Date:

1/30/98

To:

Distribution

Re:

Groundwater Monitoring Report

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Gettler-Ryan is authorized to distribute the report directly to interested parties.

If you have any questions, please call me at (510) 842-8695.

Sincerely,

Brett L. Hunter

Brett Hunter
Site Assessment and Remediation
Project Manager

Jan 29, 1998

SS# 9-5542, Dublin
(GR # 5290)



GETTLER - RYAN INC.

January 22, 1998

Job #5290.80

Mr. Brett Hunter
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

*Can discard sample of
wells 2, 3, & 6
wait for Risk Assess*

Re: Fourth Quarter 1997 Groundwater Monitoring & Sampling Report
Chevron Service Station #9-5542
7007 San Ramon Valley Road
Dublin, California

Dear Mr. Hunter:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On December 17, 1997, field personnel were on-site to monitor and sample three wells (MW-2, MW-3 and MW-6) at Chevron Service Station #9-5542 located at 7007 San Ramon Valley Road in Dublin, California.

Static groundwater levels were measured on December 17, 1997. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are enclosed.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

Deanna L. Harding

Deanna L. Harding
Project Coordinator

Barbara Sieminski

Barbara Sieminski
Registered Geologist, R.G. No. 6676



DLH/bs/dlh
5290.QML

- Figure 1: Potentiometric Map
- Table 1: Water Level Data and Groundwater Analytical Results
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

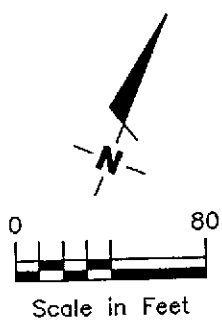
Chevron Service Station #9-5542
7007 San Ramon Valley Road
Dublin, California

January 22, 1998
Page Two

cc: Eva Chu, Alameda County Environmental Health,
1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502
Mary Diamond, See's Candy,
3423 S. La Cienega Boulevard, Los Angeles, CA 90016-4401

EXPLANATION:

- ◆ Groundwater monitoring well
- Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 Groundwater elevation contour, dashed where inferred.
- * Unable to locate well
- NM Not monitored



Approximate groundwater flow direction at a gradient of 0.007 Ft./Ft.

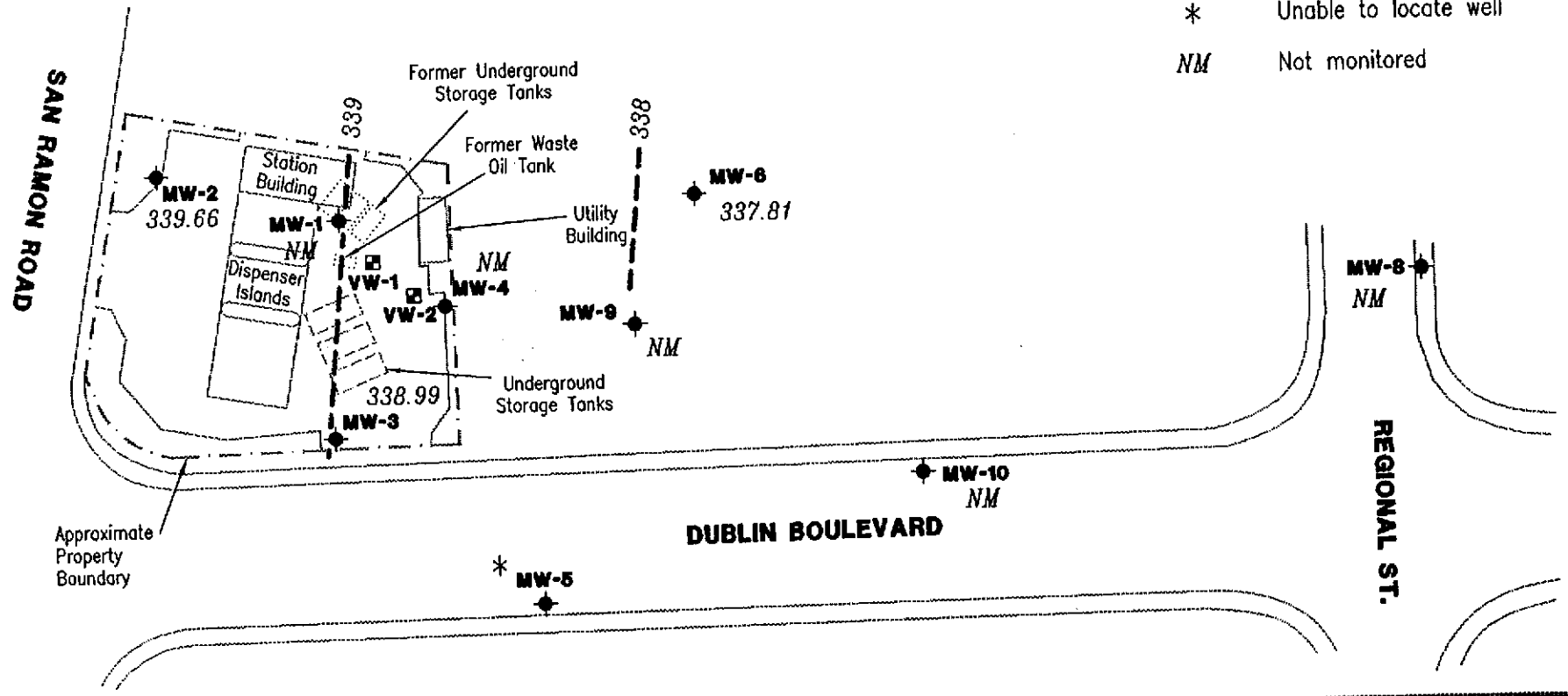


FIGURE 1



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-5542
7007 San Ramon Road
Dublin, California

DATE
December 17, 1997

REVISED DATE

JOB NUMBER
5290

REVIEWED BY



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB >
MW-1/ (D)	4/3-4/90	---	---	---	46,000	---	8,400	7,400	860	5,600	---	---	---	1.04
	4/3-4/90	---	---	---	43,000	---	8,400	7,200	840	5,200	---	---	---	1.1
363.98 ¹	5/31/91	25.67	338.31	0	31,000	---	7,400	2,500	630	2,100	---	ND ²	2	---
	5/31/91	---	---	---	---	<5,000	---	---	---	---	---	---	---	---
	6/21/91	26.23	337.75	0	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.53	337.45	0	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	31,000	---	3,000	2,800	610	3,100	---	ND ²	0.6	---
	10/4/91	27.90	336.08	0	---	---	---	---	---	---	---	---	---	---
	12/19/91	28.12	335.86	0	20,000	---	5,200	1,700	560	2,000	---	ND ²	3.3	---
364.32 ²	3/19/92	24.63	339.35	0	30,000	---	8,500	3,600	590	2,400	---	ND ²	2.7	---
	6/19/92	26.23	338.09	0	25,000	---	1,100	2,000	520	1,800	---	---	---	---
	9/22/92	27.73	336.59	0	21,000	---	8,000	3,500	670	2,900	---	---	---	---
	12/18/92	26.76	337.56	0	79,000	---	12,000	12,000	1,600	8,500	---	---	---	---
	3/10/93 ^{4,11}	---	---	---	45,000	---	16,000	14,000	1,100	5,500	---	---	---	---
	3/22/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/23/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/21/94	26.16	338.16	0	5,900	---	1,600	560	140	330	---	---	---	---
	7/6/94	27.20	337.12	0	---	---	---	---	---	---	---	---	---	---
	8/26/94	---	---	---	20,000	---	5,300	4,900	610	2,900	---	---	---	---
	9/22/94	27.44	336.88	0	42,000	---	10,000	8,300	1,000	4,900	---	---	---	---
	12/8/94	26.70	337.62	---	38,000	---	9,000	7,700	830	3,800	---	---	---	---
	3/6/95	23.68	340.64	0	47,000	---	9,400	7,100	750	3,400	---	---	---	---
	6/8/95	22.68	341.64	0	170,000	---	29,000	29,000	2,600	13,000	---	---	---	---
	9/13/95	25.10	339.22	0	39,000	---	11,000	10,000	1,100	4,900	---	---	---	---
	12/16/95	26.08	338.24	0	40,000	---	7,000	6,300	570	2,500	<2.5	---	---	---
	3/28/96	22.20	342.12	0	16,000	---	3,700	3,200	330	1,500	<120	---	---	---
	6/27/96	24.20	340.12	0	40,000	---	6,900	8,700	830	4,000	<120	---	---	---
	9/30/96	25.62	338.70	0	190,000	---	24,000	31,000	2,900	14,000	380	---	---	---
	12/30/96	24.21	340.11	0	130,000	---	25,000	32,000	2,900	15,000	<500	---	---	---
	3/11/97	23.72	340.60	0	76,000	---	11,000	13,000	1,000	6,500	<500	---	---	---
	6/10/97	25.32	339.00	0	63,000	---	9,900	15,000	1,400	7,000	<500	---	---	---
	10/1/97	26.01	338.31	0	48,000	---	8,400	12,000	1,200	5,700	<500	---	---	---
	12/17/97	Semi-Annual		---	---	---	---	---	---	---	---	---	---	---
MW-2/ 364.19 ¹	4/3-4/90	---	---	---	<50	---	<0.3	<0.3	<0.3	<0.6	---	---	---	<0.02
	5/31/91	25.51	338.68	0	100	---	3.1	4.2	0.7	2.0	---	ND ²	<0.5	---
	5/31/91	---	---	---	---	<5,000	---	---	---	---	---	---	---	---
	6/21/91	26.13	338.06	0	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.46	337.73	0	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	68	---	1.3	1.6	0.8	3.0	---	---	---	---
	10/4/91	27.79	336.40	0	---	---	---	---	---	---	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <-----	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB	-----ppb----->	
MW-2	12/19/91	28.06	336.13	0	<50	---	0.6	1.2	0.8	2.5	---	---	---	---	---	---
(cont)	3/19/92	24.46	339.73	0	<50	---	2.5	2.0	1.1	2.4	---	---	---	---	---	---
364.64 ²	6/19/92	26.10	338.54	0	<50	---	<0.5	0.6	0.7	1.2	---	---	---	---	---	---
	9/22/92	27.60	337.04	0	200	---	16	42	6.1	32	---	---	---	---	---	---
	12/18/92	26.32	338.32	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/22/93	21.39	343.29	0	<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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/23/93	25.63	339.01	0	72	---	12	4	6	8	---	---	---	---	---	---
	12/22/93	26.34	338.30	0	1,600	---	25	<0.5	3.8	4.8	---	---	---	---	---	---
	3/21/94	25.83	338.81	0	<50	---	0.7	3.3	<0.5	1.9	---	---	---	---	---	---
	6/29/94	---	---	---	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	<50	---	0.7	<0.5	<0.5	0.6	---	---	---	---	---	---
	12/8/94	26.28	338.36	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/6/95	23.27	341.37	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	6/8/95	22.38	342.26	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/13/95	24.95	339.95	0	<50	---	<0.5	0.8	<0.5	0.8	---	---	---	---	---	---
	12/16/95	25.78	338.86	0	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---
	3/28/96	21.34	343.30	0	<50	---	0.8	5.6	1.0	6.2	<5.0	---	---	---	---	---
	6/27/96	23.99	340.65	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	9/30/96	25.14	339.50	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	12/30/96	23.61	341.03	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	3/11/97	23.17	341.47	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	6/10/97	24.72	339.92	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	10/1/97	25.85	338.79	0	<50	---	1.0	1.2	<0.5	1.7	<5.0	---	---	---	---	---
	12/17/97	24.98	339.66	0	<50	---	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---
MW-3/ 361.92 ¹	4/3-4/90	---	---	---	2,200	---	36	5	6	17	---	---	---	---	---	<0.02
	5/31/91	23.20	338.72	0	2,200	---	130	11	31	78	---	ND ³	19	---	---	---
	5/31/91	---	---	---	---	<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	2,200	---	190	6.0	24	32	---	---	---	---	---	---
	12/19/91	26.24	335.68	0	640	---	73	27	17	56	---	---	---	---	---	---
	3/19/92	22.46	339.46	0	4,500	---	1,000	15	91	240	---	---	---	---	---	---
362.26 ²	6/19/92	24.32	337.94	0	1,100	---	89	3.3	9.1	13	---	---	---	---	---	---
	9/22/92	25.84	336.42	0	1,400	---	81	51	15	49	---	---	---	---	---	---
	12/18/92	24.40	337.86	0	1,100	---	2.0	1.1	53	38	---	---	---	---	---	---
	3/22/93	19.72	342.54	0	1,600	---	96	9	14	91	---	---	---	---	---	---
	6/14/93	23.52	338.74	0	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	23.21	339.05	0	1,200	---	19	6	2	5	---	---	---	---	---	---
	9/23/93	24.02	338.24	0	1,500	---	35	<0.5	5	13	---	---	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <-----	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB	-----ppb----->	
MW-3	12/22/93	24.67	337.59	0	1,500	---	26	<0.5	3.9	4.9	---	---	---	---		
(cont)	3/21/94	24.05	338.21	0	1,400	---	22	14	1.1	5.3	---	---	---	---		
	6/29/94	---	---	---	1,700	---	90	6.1	20	81	---	---	---	---		
	7/6/94	25.08	337.18	0	---	---	---	---	---	---	---	---	---	---		
	9/22/94	24.78	337.48	0	2,600	---	72	7.6	110	370	---	---	---	---		
	12/8/94	24.35	337.91	0	2,700	---	32	<0.5	100	140	---	---	---	---		
	3/6/95	21.47	340.79	0	1,000	---	4.0	9.9	8.8	7.7	---	---	---	---		
	6/8/95	20.99	341.27	0	1,500	---	13	3.2	12	17	---	---	---	---		
	9/13/95	23.51	338.75	0	2,100	---	12	79	76	420	---	---	---	---		
	12/16/95	24.00	338.26	0	650	---	<0.5	<0.5	4.4	6.5	12	---	---	---		
	3/28/96	19.90	342.36	0	1,500	---	4.3	6.5	60	100	15	---	---	---		
	6/27/96	21.98	340.28	0	1,200	---	<0.5	<0.5	1.9	2.0	13	---	---	---		
	9/30/96	23.82	338.44	0	620	---	<0.5	<0.5	<0.5	0.8	10	---	---	---		
	12/30/96	22.30	339.96	0	1,200	---	0.6	<0.5	0.6	0.7	12	---	---	---		
	3/11/97	21.51	340.75	0	1,400	---	<0.5	3.1	<0.5	0.7	32	---	---	---		
	6/10/97	23.60	338.66	0	1,400	---	1.8	4.8	0.8	1.1	18	---	---	---		
	10/1/97	24.73	337.53	0	1,100	---	0.6	2.2	1.0	1.3	7.8	---	---	---		
	12/17/97	23.27	338.99	0	450 ¹⁷	---	7.9	1.2	<1.0	1.5	11	---	---	---		
MW-4/	4/3-4/90	---	---	---	43,000	18,000	4,000	5,000	790	5,500	---	---	---	---		<0.02
	4/3-4/90	---	---	---	---	---	6,000	8,200	1,500	---	---	---	---	---		
362.70 ¹	5/31/91	24.67	338.03	0	34,000	---	2,900	2,900	680	3,300	---	ND ⁸	<0.5	---		
	5/31/91	---	---	---	<5,000	---	---	---	---	---	---	---	---	---		
	6/21/91	25.31	337.39	0	---	---	---	---	---	---	---	---	---	---		
	7/17/91	25.73	336.97	0	---	---	---	---	---	---	---	---	---	---		
	9/20/91	---	---	---	37,000	---	4,000	3,200	580	3,000	---	ND ⁸	9.2	---		
	10/4/91	27.08	335.62	0	---	---	---	---	---	---	---	---	---	---		
	12/19/91	27.24	335.46	0	41,000	---	5,500	4,900	1,000	4,400	---	ND ⁸	17	---		
	3/19/92	23.66	339.04	0	21,000	---	3,800	2,900	500	3,200	---	ND ⁹	15	---		
363.07 ²	6/19/92	25.33	337.74	0	27,000	<5,000	1,800	1,600	570	1,900	---	---	---	---		
	9/22/92	26.90	336.17	0	20,000	<5,000	4,100	2,700	670	3,200	---	---	---	---		
	12/18/92	25.62	337.45	0	15,000	<5,000	2,200	2,000	370	1,600	---	---	---	---		
	3/22/93	20.80	342.27	0	41,000	5,000	3,900	5,100	840	4,500	---	---	---	---		
	6/14/93	25.73	337.34	0	---	---	---	---	---	---	---	---	---	---		
	7/25/93	24.02	339.05	0	94,000	<5,000	18,000	30,000	2,400	14,000	---	---	---	---		
	9/23/93	25.00	338.07	0	23,000	<5,000	4,700	2,000	900	4,600	---	---	---	---		
	12/22/93	25.72	337.35	0	18,000	<5,000	2,800	1,300	420	1,700	---	---	---	---		
	3/21/94	25.09	337.98	0	21,000	<5,000	2,800	1,700	540	1,900	---	---	---	---		
	6/29/94	---	---	---	25,000	<5,000	4,000	2,600	960	3,300	---	---	---	---		
	7/6/94	26.11	336.96	0	---	---	---	---	---	---	---	---	---	---		
	9/22/94	26.54	336.53	0	45,000	<5,000	11,000	8,800	1,000	5,100	---	---	---	---		
	12/8/94 ¹⁴	25.55	337.52	0	6,700	<5,000	1,200	720	34	1,100	---	---	---	---		
	3/6/95	22.64	340.43	0	8,900	---	1,400	540	350	940	---	---	---	---		



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <-----	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB	ppb	
															----->	>
MW-4	6/8/95	22.01	341.06	0	15,000	---	2,000	1,500	400	1,500	---	---	---	---	---	---
(cont)	9/13/95	24.42	338.65	0	10,000 ¹⁵	---	3,100	670	500	1,400	---	---	---	---	---	---
	12/16/95	25.18	337.89	0	15,000	---	2,900	960	420	1,200	<2.5	---	---	---	---	---
	3/28/96	20.97	342.10	0	8,600	---	1,300	920	330	1,100	<10	---	---	---	---	---
	6/27/96	21.63	341.44	0	18,000	---	2,600	1,500	740	2,400	<50	---	---	---	---	---
363.07 ¹⁶	9/30/96	24.85	338.22	0	24,000	---	3,200	1,200	710	2,200	87	---	---	---	---	---
	12/30/96	23.28	339.79	0	15,000	---	2,300	1,000	600	1,900	84	---	---	---	---	---
	3/11/97	22.62	340.45	0	23,000	---	2,600	920	780	2,200	84	---	---	---	---	---
	6/10/97	24.49	338.58	0	17,000	---	2,900	790	750	1,700	<100	---	---	---	---	---
	10/1/97	25.50	337.57	0	21,000	---	3,600	1,400	1,300	2,700	<50	---	---	---	---	---
	12/17/97	Semi-Annual		---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5/ 359.95 ¹	6/21/91	23.17	336.78	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	6/21/91	---	---	---	---	---	---	---	---	---	---	ND ⁸	<0.5	---	---	---
	7/17/91	23.68	336.27	0	---	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	170 ¹⁰	---	0.8	0.9	<0.5	1.5	---	---	---	---	---	---
	10/4/91	25.20	334.75	0	---	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	25.20	334.75	0	<50	---	0.7	0.7	<0.5	1.4	---	---	---	---	---	---
	3/19/92	21.21	338.74	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
360.28 ²	6/19/92	23.42	336.86	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/22/92	24.97	335.31	0	150	---	13	34	5.0	26	---	---	---	---	---	---
	12/18/92	23.52	336.76	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/10/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/22/93	19.10	341.18	0	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93	22.71	337.57	0	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	21.99	338.29	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/23/93	23.48	336.80	0	<50	---	3	1	1	2	---	---	---	---	---	---
	12/22/93	23.98	336.30	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/21/94	23.18	337.10	0	<50	---	2.4	1.4	<0.5	2	---	---	---	---	---	---
	6/29/94	---	---	---	<50	---	<0.5	<0.5	<0.5	1.0	---	---	---	---	---	---
	7/6/94	24.41	335.87	0	---	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	24.78	335.50	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	12/8/94	23.42	336.86	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/6/95	20.65	339.63	0	67	---	1.9	2.5	4.7	19	---	---	---	---	---	---
	6/8/95	20.76	339.52	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/13/95	23.16	337.12	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	12/16/95	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---
	3/28/96	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---
	6/27/96	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---
	9/30/96	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---
	12/30/96	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---
	3/11/97	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---
	6/10/97	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	ppb									
					TPH(G)	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB
MW-5 (cont)	10/1/97 12/17/97	Unable to locate Discontinued		--	--	--	--	--	--	--	--	--	--	--
MW-6/ 360.22 ¹	6/21/91	23.55	336.67	0	3,700	--	50	2.6	150	340	--	--	--	--
	6/21/91	--	--	--	--	--	--	--	--	--	--	ND ²	<0.5	--
	7/17/91	24.00	336.22	0	--	--	--	--	--	--	--	--	--	--
	9/20/91	--	--	--	3,200	--	28	<0.5	140	100	--	--	--	--
	10/4/91	25.29	334.93	0	--	--	--	--	--	--	--	--	--	--
	12/19/91	25.34	334.88	0	380	--	2.7	4.0	15	10	--	--	--	--
	3/19/92	22.05	338.17	0	3,400	--	57	4.5	330	360	--	--	--	--
360.58 ²	6/19/92	23.52	337.06	0	980	--	11	4.2	57	38	--	--	--	--
	9/22/92	25.60	334.98	0	1,100	--	22	41	77	58	--	--	--	--
	12/18/92	24.18	336.40	0	1,900	--	3.2	1.3	58	47	--	--	--	--
	3/10/93	--	--	--	1,400	--	30	9	8	22	--	--	--	--
	3/22/93	19.36	341.22	0	--	--	--	--	--	--	--	--	--	--
	6/14/93	23.48	337.10	0	--	--	--	--	--	--	--	--	--	--
	7/25/93	22.30	338.28	0	83 ¹¹	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/23/93	23.20	337.38	0	200	--	6	2	3	3	--	--	--	--
	12/22/93	23.91	336.67	0	130	--	<0.5	1.8	1.2	1.5	--	--	--	--
	3/21/94	23.27	337.31	0	290	--	3	10	1.6	4.7	--	--	--	--
	6/29/94	--	--	--	300	--	0.6	1.2	2.4	4.6	--	--	--	--
	7/6/94	24.27	336.31	0	--	--	--	--	--	--	--	--	--	--
	9/22/94	24.84	335.74	0	2,300	--	58	3.6	100	290	--	--	--	--
	12/8/94	23.85	336.73	0	<50	--	<0.5	<0.5	<0.5	0.9	--	--	--	--
	3/6/95	20.91	339.67	0	360	--	2.0	3.6	0.9	2.3	--	--	--	--
	6/8/95	20.18	340.40	0	230	--	<0.5	<0.5	1.0	1.6	--	--	--	--
	9/13/95	23.53	337.05	0	88	--	<0.5	<0.5	<0.5	1.1	--	--	--	--
	12/16/95	23.38	337.20	0	<50	--	<0.5	<0.5	<0.5	<0.5	7.3	--	--	--
	3/28/96	19.37	341.21	0	130	--	<0.5	<0.5	<0.5	<0.5	9.2	--	--	--
	6/27/96	21.66	338.92	0	<50	--	<0.5	<0.5	<0.5	<0.5	5.7	--	--	--
	9/30/96	23.06	337.52	0	50	--	<0.5	<0.5	<0.5	<0.5	6.3	--	--	--
	12/30/96	21.46	339.12	0	90	--	<0.5	<0.5	<0.5	<0.5	5.5	--	--	--
	3/11/97	20.91	339.67	0	80	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	6/10/97	22.65	337.93	0	<50	--	1.6	2.3	<0.5	1.2	<5.0	--	--	--
	10/1/97	23.63	336.95	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	12/17/97	22.77	337.81	0	92	--	0.98	<0.50	0.72	1.6	2.7	--	--	--
MW-7/ 360.63 ¹	6/21/91	23.45	337.18	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	6/21/91	--	--	--	--	--	--	--	--	--	--	ND ²	<0.5	--
	7/17/91	23.90	336.73	0	--	--	--	--	--	--	--	--	--	--
	9/20/91	--	--	--	69	--	4.4	3.3	1.2	3.9	--	--	--	--
	10/4/91	25.03	335.60	0	--	--	--	--	--	--	--	--	--	--



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <	O&G	B	T	ppb					Other HVOCs	1,2-DCA	EDB >
									E	X	MTBE					
MW-7	12/19/91	25.10	335.53	0	<50	--	0.9	2.8	1.7	5.9	--	--	--	--	--	
(cont)	3/19/92	22.74	337.89	0	<50	--	1.1	0.6	0.9	2.5	--	--	--	--	--	
360.99 ²	6/19/92 ¹	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	9/22/92 ²	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/92 ³	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/22/93 ⁵	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/14/93 ⁵	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/25/93 ⁵	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
361.68 ⁶	12/23/93	23.67	338.01	0	<50	--	0.9	0.5	<0.5	<0.5	--	--	--	--	--	
	3/21/94	24.13	337.55	0	<50	--	0.5	1.1	<0.5	1.4	--	--	--	--	--	
	6/29/94	--	--	--	<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	11,000	--	1,900	230	310	970	--	--	--	--	--	
	12/8/94	26.23	335.45	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	3/6/95	23.19	338.49	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	6/8/95	22.14	339.54	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	9/13/95	24.55	337.13	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	12/16/95	25.74	335.94	0	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
	3/28/96	21.72	339.96	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	6/27/96	23.50	338.18	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	9/30/96	25.20	336.48	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	12/30/96	23.88	337.80	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	3/11/97	22.99	338.69	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	6/10/97	24.70	336.98	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	10/1/97	25.70	335.98	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
	12/17/97	Discontinued		--	--	--	--	--	--	--	--	--	--	--	--	
MW-8/ --	12/12/91	22.54	--	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
354.89 ²	6/19/92	20.47	334.42	0	<50	--	1.2	1.4	0.5	2.9	--	--	--	--	--	
	9/22/92	29.80	325.09	0	180	--	17	42	6.0	31	--	--	--	--	--	
	12/18/92	21.18	333.71	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	3/10/93	--	--	--	<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	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	9/23/93	20.40	334.49	0	<50	--	1	0.9	0.7	1	--	--	--	--	--	
	12/22/93	20.92	333.97	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	3/21/94	20.19	334.70	0	<50	--	0.9	1.5	<0.5	2	--	--	--	--	--	
	6/29/94	--	--	--	<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	9,600	--	1,600	180	260	840	--	--	--	--	--	
	10/14/94	21.84	333.05	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
	12/8/94	20.71	334.18	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	ppb									
					TPH(G) <	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB >
MW-8	3/6/95	18.11	336.78	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
(cont)	6/8/95	17.79	337.10	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/13/95	19.80	335.09	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/16/95	20.46	334.43	0	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---
	3/28/96	15.42	339.47	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	6/27/96	19.08	335.81	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
360.58 ¹⁶	9/30/96	20.30	340.28	0	<50	---	<0.5	<0.5	<0.5	0.6	<5.0	---	---	---
	12/30/96	19.03	341.55	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	3/11/97	18.41	342.17	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	6/10/97	19.91	340.67	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	10/1/97	20.71	339.87	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	12/17/97	Discontinued		---	---	---	---	---	---	---	---	---	---	---
MW-9/ 361.23 ⁷	7/6/94	25.15	336.08	0	---	---	---	---	---	---	---	---	---	---
	8/26/94	---	---	---	12,000	---	1,700	240	410	1,400	---	---	---	---
	9/22/94	25.74	335.49	0	10,000	---	1,900	290	320	1,200	---	---	---	---
	12/8/94	24.84	336.39	0	18,000	---	2,400	780	450	4,600	---	---	---	---
	3/6/95	21.83	339.40	0	6,100	---	1,400	260	420	1,500	---	---	---	---
	6/8/95	21.29	339.94	0	14,000	---	2,100	220	540	1,700	---	---	---	---
	9/13/95	23.65	337.85	0	11,000	---	1,900	120	490	1,400	---	---	---	---
	12/16/95	24.32	336.91	0	16,000	---	1,900	<0.5	680	1,200	<2.5	---	---	---
	3/28/96	20.45	340.78	0	960	---	120	5.9	33	70	18	---	---	---
	6/27/96	22.84	338.39	0	10,000	---	1,200	46	340	1,000	66	---	---	---
361.59 ¹⁶	9/30/96	24.12	337.47	0	15,000	---	1,300	36	390	950	100	---	---	---
	12/30/96	22.64	338.95	0	12,000	---	1,200	54	470	1,300	100	---	---	---
	3/11/97	22.09	339.50	0	13,000	---	850	37	310	930	63	---	---	---
	6/10/97	23.78	337.81	0	9,000	---	800	7.7	220	360	86	---	---	---
	10/1/97	23.53	338.06	0	7,000	---	770	13	270	540	99	---	---	---
	12/17/97	Semi-Annual		---	---	---	---	---	---	---	---	---	---	---
MW-10 358.02 ¹⁶	6/27/96	20.74	---	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	9/30/96	22.03	335.99	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	12/30/96	20.56	337.46	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	3/11/97	19.93	338.09	0	<50	---	<0.5	<0.5	<0.5	<0.5	7.0	---	---	---
	6/10/97	21.65	336.37	0	<50	---	<0.5	<0.5	<0.5	<0.5	5.3	---	---	---
	10/1/97	22.52	335.50	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	12/17/97	Semi-Annual		---	---	---	---	---	---	---	---	---	---	---
Trip Blank MW-AA	5/31/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/21/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/20/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <-----	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB >-----
Trip Blank	12/19/91	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
(cont)	3/19/92	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
TB-LB	6/19/92	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/22/92	--	--	--	92 ¹²	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/18/92	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/10/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/22/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	7/25/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/23/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/22/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/21/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	6/29/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	7/1/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	7/6/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/22/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/8/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/6/95	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	6/8/95	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/13/95	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/16/95	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
	3/28/96	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	6/27/96	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	9/30/96	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	12/30/96	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	3/11/97	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	6/10/97	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	10/1/97	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	12/17/97	--	--	--	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--
Bailer Blank	5/31/91	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-BB	6/21/91	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/20/91	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/19/91	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/19/92	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	6/19/92	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/22/92	--	--	--	<50	--	<0.5	<0.5	<0.5	0.8	--	--	--	--
	12/21/92	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/10/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/22/93	--	--	--	<50	--	<0.5	<0.5	<0.5	0.6	--	--	--	--
	7/25/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/23/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/22/93	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/21/94	--	--	--	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--



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

EXPLANATION:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
O&G = Oil and Grease
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary-butyl ether
HVOCs = Halogenated Volatile Organic Compounds
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide
ppb = Parts per billion
— = Not available/not applicable

ANALYTICAL METHODS:

EPA Method 8015/5030 for TPH(G)
EPA Method 602 for BTEX
EPA Method 504 for EDB
EPA Method 8020 for BTEX & MTBE
EPA Method 8010 for HVOCs
Standards Methods Method 503E for O&G
EPA Method 413.1 for total O&G
EPA Method 624 for BTEX and VOCs
Standard Methods Method 5520 for O&G
LUFT = DHS LUFT Manual Method for OL

NOTES:

Groundwater elevation data and laboratory analytical results prior to March 6, 1995, were compiled from the Quarterly Groundwater Monitoring Reports prepared for Chevron by Sierra Environmental Services.

- * Product thickness was measured with an MMC flexi-dip interface probe.
- ¹ Top of casing elevations for monitoring wells MW-1 through MW-7 were surveyed by Ron Miller, Professional Engineer #15816 on June 26, 1991.
- ² 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. Well could not be located on this date due to surface conditions from recent discing.
- ³ Well could not be located on this date due to surface conditions from recent discing.
- ⁴ Monitoring well part of remediation system.
- ⁵ Monitoring well not located since March 1992 sampling event.
- ⁶ Top of casing elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.
- ⁷ Monitoring well surveyed by Ron Miller, PE #15816, on July 5, 1994.
- ⁸ Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.
- ⁹ 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.
- ¹⁰ A non-standard gasoline pattern was observed in the chromatogram.
- ¹¹ Uncategorized compound not included in gasoline total.
- ¹² Gasoline range concentration reported. The chromatogram shows only a single peak in the gasoline range.
- ¹³ Analytical results provided by Chevron Project Manager.
- ¹⁴ TPH(G) and BTEX results are estimated concentrations. Due to laboratory error, sample was analyzed past the recommended holding time. (GTEL).
- ¹⁵ Laboratory report indicates uncategorized compound is not included in gasoline concentration.
- ¹⁶ Surveyed by Virgil Chavez Land Surveying on 10/15/96, elevations based on previous TOC data.
- ¹⁷ Laboratory report indicates gas & unidentified hydrocarbons < C7.



STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

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

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron Facility # 9-5542
 Address: 7007 San Ramon Valley Road
 City: Dublin, CA

Job#: 5290.80
 Date: 12-17-97
 Sampler: E.Cline

Well ID: MW- 2
 Well Diameter: 2" 4" in.
 Total Depth: 391 ft.
 Depth to Water: 29.98 ft.

Well Condition: 0/97

Hydrocarbon Thickness:	<u>0</u> in.	Amount Bailed (product/water):	<u>0</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.02 X VF 0.17 = 2.4 X 3 (case volume) = Estimated Purge Volume: 7.15 (gal.)

Purge Equipment: _____
 Disposable Bailer Bailer Stack
 Suction Grundfos Other: _____

Sampling Equipment: Disposable Bailer
 Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 14:35
 Sampling Time: 14:43
 Purging Flow Rate: 1.3 gpm.
 Did well de-water? NC

Weather Conditions: cloudy cool
 Water Color: clear Odor: None
 Sediment Description: None
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{C}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>14:37</u>	<u>2.6</u>	<u>7.38</u>	<u>1331</u>	<u>20.1</u>	_____	_____	_____
<u>14:39</u>	<u>5.2</u>	<u>7.08</u>	<u>1347</u>	<u>20.2</u>	_____	_____	_____
<u>14:41</u>	<u>7.8</u>	<u>6.90</u>	<u>1355</u>	<u>20.2</u>	_____	_____	_____
<u>14:43</u>	<u>8.0</u>	<u>7.00</u>	<u>1356</u>	<u>20.2</u>	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 2</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEW/STEL</u>	<u>TPH-Gas/BTEX/MTBE</u>
				<u>SCW004</u>	

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Chevron Facility # 9-5542
 Address: 7007 San Ramon Valley Road
 City: Dublin, CA

Job#: 5290.80
 Date: 12-17-97
 Sampler: F.Cline

Well ID: MW-3
 Well Diameter: 2" 4" in.
 Total Depth: 351 ft.
 Depth to Water: 23.27 ft.

Well Condition: dry

Hydrocarbon Thickness: 0 in. Amount Bailed: 0 (gal.)
 Volume Factor (VF):
 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

11.73 X VF 0.17 = 1.99 X 3 (case volume) = Estimated Purge Volume: 5.98 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
~~Stack~~
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 15:14
 Sampling Time: 15:22
 Purging Flow Rate: 1 gpm.
 Did well de-water? NO

Weather Conditions: cloudy cool
 Water Color: clear Odor: None
 Sediment Description: None
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>15:16</u>	<u>2</u>	<u>6.64</u>	<u>1456</u>	<u>20.7</u>			
<u>15:18</u>	<u>4</u>	<u>6.67</u>	<u>1442</u>	<u>20.7</u>			
<u>15:20</u>	<u>6</u>	<u>6.68</u>	<u>1444</u>	<u>20.4</u>			
<u>15:22</u>	<u>7</u>	<u>6.69</u>	<u>1444</u>	<u>20.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEHQTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>
				<u>SQUAD</u>	

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron Facility # 9-5542
 Address: 7007 San Ramon Valley Road
 City: Dublin, CA

Job#: 5290.80
 Date: 12-17-97
 Sampler: E.Cline

Well ID MW-6

Well Condition: dry

Well Diameter 2" 4" in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 341 ft.

Depth to Water 22.77 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.23 X VF 0.17 = 1.9 X 3 (case volume) = Estimated Purge Volume: 573 (gal.)

Purge Equipment: Disposable Bailer Bailer
Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 14:58
 Sampling Time: 15:00
 Purging Flow Rate: 1 gpm.
 Did well de-water? NO

Weather Conditions: cloudy cold
 Water Color: clear Odor: None
 Sediment Description: None
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>18:00</u>	<u>2</u>	<u>6.80</u>	<u>1477</u>	<u>18.7</u>	_____	_____	_____
<u>15:00</u>	<u>4</u>	<u>6.73</u>	<u>1473</u>	<u>18.8</u>	_____	_____	_____
<u>15:04</u>	<u>6</u>	<u>6.73</u>	<u>1474</u>	<u>18.8</u>	_____	_____	_____
<u>15:06</u>	<u>7</u>	<u>6.74</u>	<u>1474</u>	<u>18.8</u>	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>6</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEH/TEL</u> <u>SEQUOIA</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>#9-5542</u>	Chevron Contact (Name) <u>Mr. Brett Hunter</u>
	Facility Address <u>7007 San Ramon Valley Rd., Dublin, CA</u>	(Phone) <u>(510) 842-8695</u>
	Consultant Project Number <u>5290.80</u>	Laboratory Name <u>NET/GP/ET</u> <u>SECURIA</u> Service Code: <u>ZZ02790</u>
	Consultant Name <u>Gettler-Ryan</u>	Laboratory Service Order # <u>9034273-9050034</u>
Address <u>6747 Sierra Ct, Ste J, Dublin 94568</u>		Samples Collected by (Name) <u>FiClive</u>
Project Contact (Name) <u>Deanna Harding</u>		Collection Date <u>12-17-97</u>
(Phone) <u>551-7555</u> (Fax Number) <u>551-7888</u>		Signature _____

Sample Number	Lab Sample Number	Number of Containers	Matrix		Type	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed <u>9712009</u>											Remarks				
			S = Soil	A = Air					W = Water	C = Charcoal	G = Grab	C = Composite	D = Discrete	TPH Gas + BTEX w/MTBE (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)		
TB-UB	1	2	W		TB		HC	Y	X															
MW-2	2	3			G	1504			X															
MW-4	3					1504			X															
MW-3	4					1504			X															

DE 19 12 4

DO NOT BILL TB-LB ANALYSIS

Unquished By (Signature) _____	Organization <u>G-R Inc.</u>	Date/Time <u>12-18-97</u>	Received By (Signature) <u>D. Harding</u>	Organization <u>G-R Inc.</u>	Date/Time <u>12/18/97</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Unquished By (Signature) _____	Organization <u>G-R</u>	Date/Time <u>12/18/97</u>	Received By (Signature) _____	Organization <u>SEC</u>	Date/Time <u>12/19/97/115</u>	
Unquished By (Signature) _____	Organization <u>G-R</u>	Date/Time <u>12/18/97</u>	Received For Laboratory By (Signature) _____	Date/Time <u>12-19-97</u>	Date/Time <u>12/19/97</u>	



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568 Attention: Deanna Harding	Client Proj. ID: Chevron 9-5542, Dublin Sample Descript: TB-LB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712D58-01	Sampled: 12/17/97 Received: 12/19/97 Analyzed: 12/30/97 Reported: 01/06/98
--	--	---


QC Batch Number: GC123097802002A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	114

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568 Attention: Deanna Harding	Client Proj. ID: Chevron 9-5542, Dublin Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712D58-02	Sampled: 12/17/97 Received: 12/19/97 Analyzed: 12/29/97 Reported: 01/06/98
--	---	---

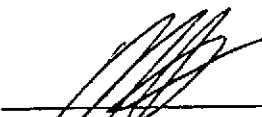
QC Batch Number: GC122997802002A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager



Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568

Client Proj. ID: Chevron 9-5542, Dublin
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9712D58-04

Sampled: 12/17/97
Received: 12/19/97
Analyzed: 12/29/97
Reported: 01/06/98

Attention: Deanna Harding

QC Batch Number: GC122997802002A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	450
Methyl t-Butyl Ether	5.0	11
Benzene	1.0	7.9
Toluene	1.0	1.2
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	1.5
Chromatogram Pattern: Gas & Unidentified HC		<C7
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	120

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271


Mike Gregory
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-5542, Dublin Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712D58-03	Sampled: 12/17/97 Received: 12/19/97 Analyzed: 12/29/97 Reported: 01/06/98
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QC Batch Number: GC122997802002A
Instrument ID: GCHP02

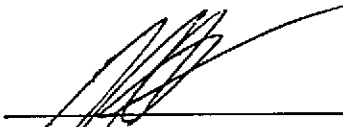
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	92
Methyl t-Butyl Ether	2.5	2.7
Benzene	0.50	0.98
Toluene	0.50	N.D.
Ethyl Benzene	0.50	0.72
Xylenes (Total)	0.50	1.6
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	114

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager



**Sequoia
Analytical**

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Gettler Ryan/Geostrategies
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Dublin, CA 94568
Attention: Deanna Harding

Client Proj. ID: Chevron 9-5542, Dublin

Received: 12/19/97

Lab Proj. ID: 9712D58

Reported: 01/06/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 6 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager



Sequoia Analytical

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Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Chevron 9-5542, Dublin
Matrix: Liquid

Work Order #: 9712D58 -02-04

Reported: Jan 9, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC122997802002A	GC122997802002A	GC122997802002A	GC122997802002A	GC122997802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7121813	7121813	7121813	7121813	7121813
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/29/97	12/29/97	12/29/97	12/29/97	12/29/97
Analyzed Date:	12/29/97	12/29/97	12/29/97	12/29/97	12/29/97
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
Result:	22	23	22	69	320
MS % Recovery:	110	115	110	115	103
Dup. Result:	22	23	23	68	330
MSD % Recov.:	110	115	115	113	106
RPD:	0.0	0.0	4.4	1.5	3.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS122997	LCS122997	LCS122997	LCS122997	LCS122997
Prepared Date:	12/29/97	12/29/97	12/29/97	12/29/97	12/29/97
Analyzed Date:	12/29/97	12/29/97	12/29/97	12/29/97	12/29/97
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
LCS Result:	19	21	21	66	310
LCS % Recov.:	95	105	105	110	100

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL
Elap #1271

Mike Gregory
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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Gettler Ryan/Geostrategies
 6747 Sierra Court, Ste J
 Dublin, CA 94568
 Attention: Deanna Harding

Client Project ID: Chevron 9-5542, Dublin
 Matrix: Liquid

Work Order #: 9712D58-01

Reported: Jan 9, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC123097802002A	GC123097802002A	GC123097802002A	GC123097802002A	GC123097802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7122006	7122006	7122006	7122006	7122006
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/30/97	12/30/97	12/30/97	12/30/97	12/30/97
Analyzed Date:	12/30/97	12/30/97	12/30/97	12/30/97	12/30/97
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
Result:	20	21	21	66	310
MS % Recovery:	100	105	105	110	100
Dup. Result:	20	20	21	64	310
MSD % Recov.:	100	100	105	107	100
RPD:	0.0	4.9	0.0	3.1	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS123097	LCS123097	LCS123097	LCS123097	LCS123097
Prepared Date:	12/30/97	12/30/97	12/30/97	12/30/97	12/30/97
Analyzed Date:	12/30/97	12/30/97	12/30/97	12/30/97	12/30/97
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
LCS Result:	19	19	19	60	310
LCS % Recov.:	95	95	95	100	100

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9712D58.GET <2>