



**Chevron U.S.A. Inc.**

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500  
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

92 JUN 2 11:49

Marketing Department

**May 28, 1992**

Mr. Scott Seery  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Former Chevron Station # 9-5607, 5269 Crow Canyon Road, Castro Valley, CA  
Enclosed groundwater monitoring report for second quarter 1992  
Enclosed groundwater treatment system discharge compliance report for March 1992

Dear Mr. Seery:

Enclosed is a report dated May 4, 1992, which was prepared by Chevron's consultant, Alton Geoscience (Alton), to describe groundwater monitoring performed at the subject site on April 13, 1992.

Alton measured the groundwater elevation and collected groundwater samples from each of the fifteen accessible monitoring wells. The two remaining wells (RW and C-9) are used for groundwater extraction and thus could not be accessed. However, Chevron's consultant, Geraghty & Miller (GM), collected compliance samples from the treatment system influent and effluent streams on March 13, 1992, and I have enclosed for your information a copy of GM's report to the Castro Valley Sanitary District and the Bay Area Air Quality Management District. GM also collects monthly groundwater elevation data from each of the site wells to assess the hydraulic influence of the extraction system.

The groundwater elevation data continues to indicate that the groundwater gradient follows the southwesterly sloping surface topography. This has remained consistent since Chevron first began taking measurements in 1985. **Since the addition of the second groundwater extraction well in September 1991, the influence of the extraction system on the groundwater flow has improved.**

The groundwater sampling data from 1989 to the present has not shown a significant change in dissolved hydrocarbon concentrations in the vicinity of the site. This may reflect the capture of the more highly concentrated dissolved hydrocarbons by the groundwater extraction system in conjunction with the process of natural biodegradation counterbalancing the transport of dissolved hydrocarbons. Chevron is pursuing the possibility of using groundwater flow and biological fate modeling to predict future conditions specific to this site based upon actual site data and conservative assumptions. If a modeling approach is determined to be applicable to this site, I will communicate the approach and the results to your office as well as to the San Francisco Bay Regional Water Quality Control Board (Board).

Mr. Scott Seery  
May 28, 1992  
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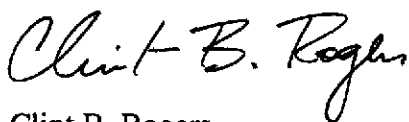
I spoke with Mr. Rich Hiett of the Board on May 19, 1992. Mr. Hiett indicated that you had requested the Board to review the site for possible enforcement action. I was quite alarmed by this and asked what I should do to prevent such action. As per Mr. Hiett's request, I have initiated the preparation of information regarding the performance of the groundwater extraction system for his review. When the performance information is together, I will send a copy both to your office and to the Board.

During my conversation with Mr. Hiett, he told me that you had expressed concern over the sampling program which Chevron has conducted over the past year. Chevron's sampling plan was outlined in my April 16, 1991 letter to you and included continued quarterly sampling of nine strategically located wells, semi-annual sampling of four background wells, and annual sampling of the remaining four background wells. Despite the rationale presented in the letter and phone conversations between us regarding the subject on April 26 and June 11, 1991, you indicated to me during our latter conversation that you still had not reviewed the groundwater data from December 1990 or March 1991 and as such were not prepared to either concur or object to the sampling plan. I indicated to you that I would go ahead and implement the plan while waiting for your decision. I received no comments on the topic again until my recent conversation with Mr. Hiett.

I would like to know your position regarding Chevron's sampling plan. I personally believe that it is sufficient to continuously verify the groundwater conditions, but judging from Mr. Hiett's comments it seems that you may not agree.

If you have any questions or comments, I can be reached at (510) 842-8658.

Sincerely,



Clint B. Rogers  
Engineer, Site Assessment and Remediation

Enclosures

cc: Rich Hiett, San Francisco Bay RWQCB, Oakland, CA  
Kevin Hinckley, 5269 Crow Canyon Road, Castro Valley, CA 94546  
Paul Hehn, Geraghty and Miller, Richmond, CA  
John DeGeorge, Alton, Pleasanton, CA (w/o attachment)

May 4, 1992

Mr. Clint Rogers  
Chevron U.S.A. Products Company  
Post Office Box 5004  
San Ramon, California 94583-0804

31-0321

Subject: Quarterly Ground Water Monitoring Report  
Former Chevron Station No. 9-5607  
5269 Crow Canyon Road  
Castro Valley, California

Dear Mr. Rogers:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for former Chevron Station No. 9-5607, 5269 Crow Canyon Road, Castro Valley, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on April 13 and April 14, 1992, in accordance with the requirements and procedures of the California Regional Water Quality Control Board (RWQCB) and local regulatory agencies.

#### FIELD PROCEDURES

Prior to purging and sampling the wells, each well was checked for liquid-phase hydrocarbons or sheen. The depth to ground water and, if present, free product was measured in each well from the top of casing using an electronic interface probe with 0.01 foot tolerance.

Ground water samples were collected after more than 3 casing volumes of ground water was purged from each well. Each sample was collected using a clean bailer. Ground water samples were then decanted into the appropriate clean sample containers for delivery to a California-certified laboratory following proper preservation and chain of custody procedures. Purged ground water was disposed of properly in a water treatment facility located on the property.

Mr. Clint Rogers  
May 4, 1992  
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#### **SAMPLING AND ANALYTICAL RESULTS**

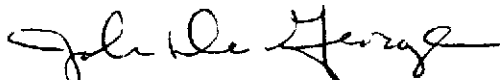
The results of the monitoring and laboratory analyses of ground water samples for this quarter, as well as the results of previous monitoring and sampling events, are summarized in Table 1. Based on the previous wellhead elevation survey data and depth to water measurements collected during this monitoring event, ground water elevations and the general ground water gradient direction at this site are presented in Figure 2.

Free product was observed in monitoring well C-3 and a product sheen was observed in C-6. The official laboratory reports and chain of custody records are included in Appendix A.

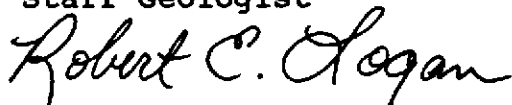
Please call John De George at (510) 734-8134 if you have any questions regarding this report.

Sincerely,

ALTON GEOSCIENCE,

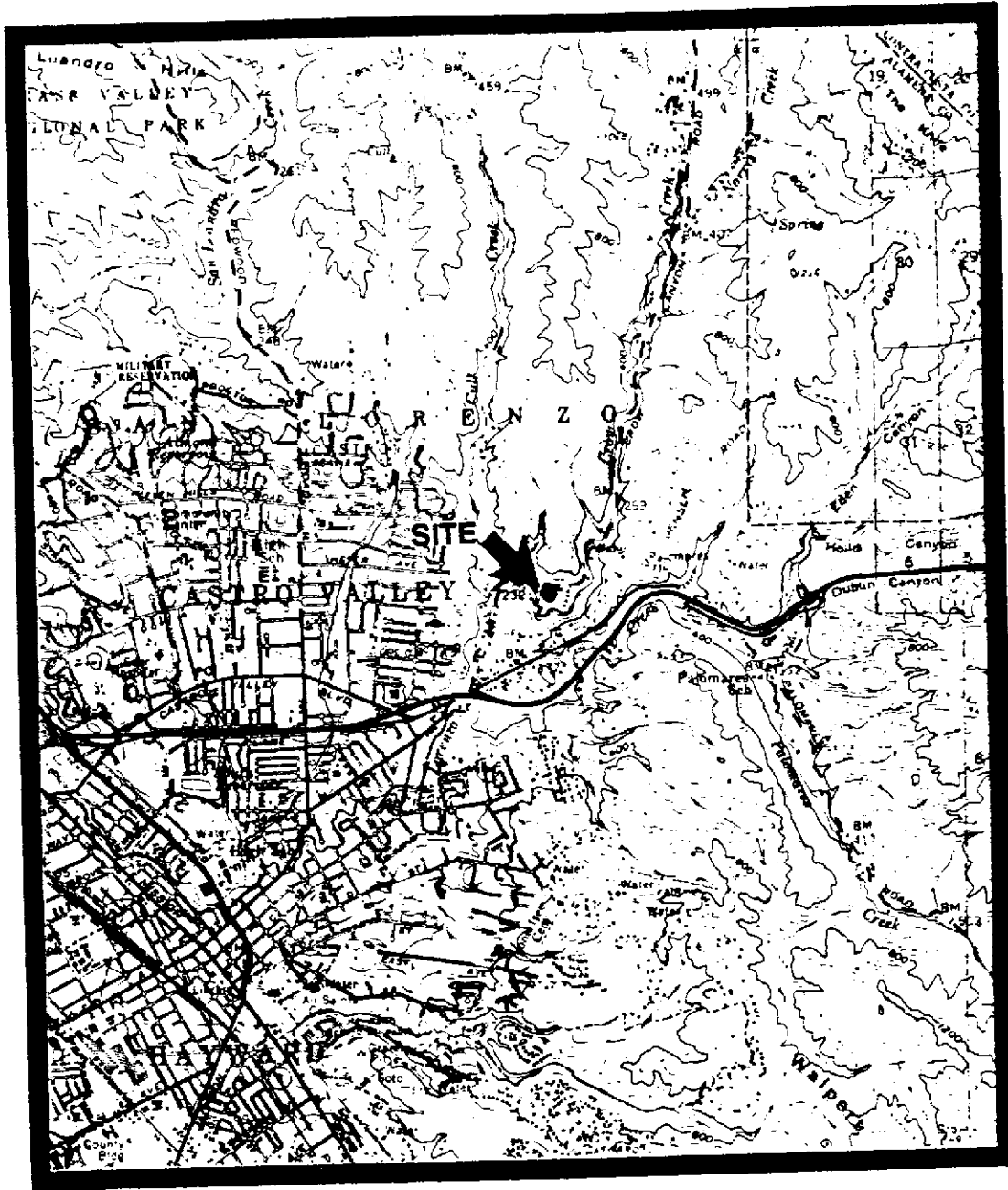


John De George  
Staff Geologist



Robert E. Logan R. G. 5088  
Manager, Northern California Operations

wp95607jd



**FIGURE 1. SITE VICINITY MAP**

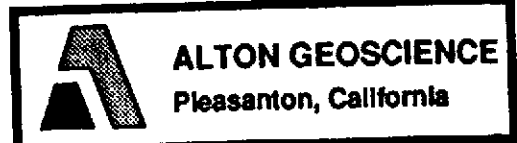
**FORMER CHEVRON STATION NO. 95607  
5269 CROW CANYON ROAD  
CASTRO VALLEY, CALIFORNIA**

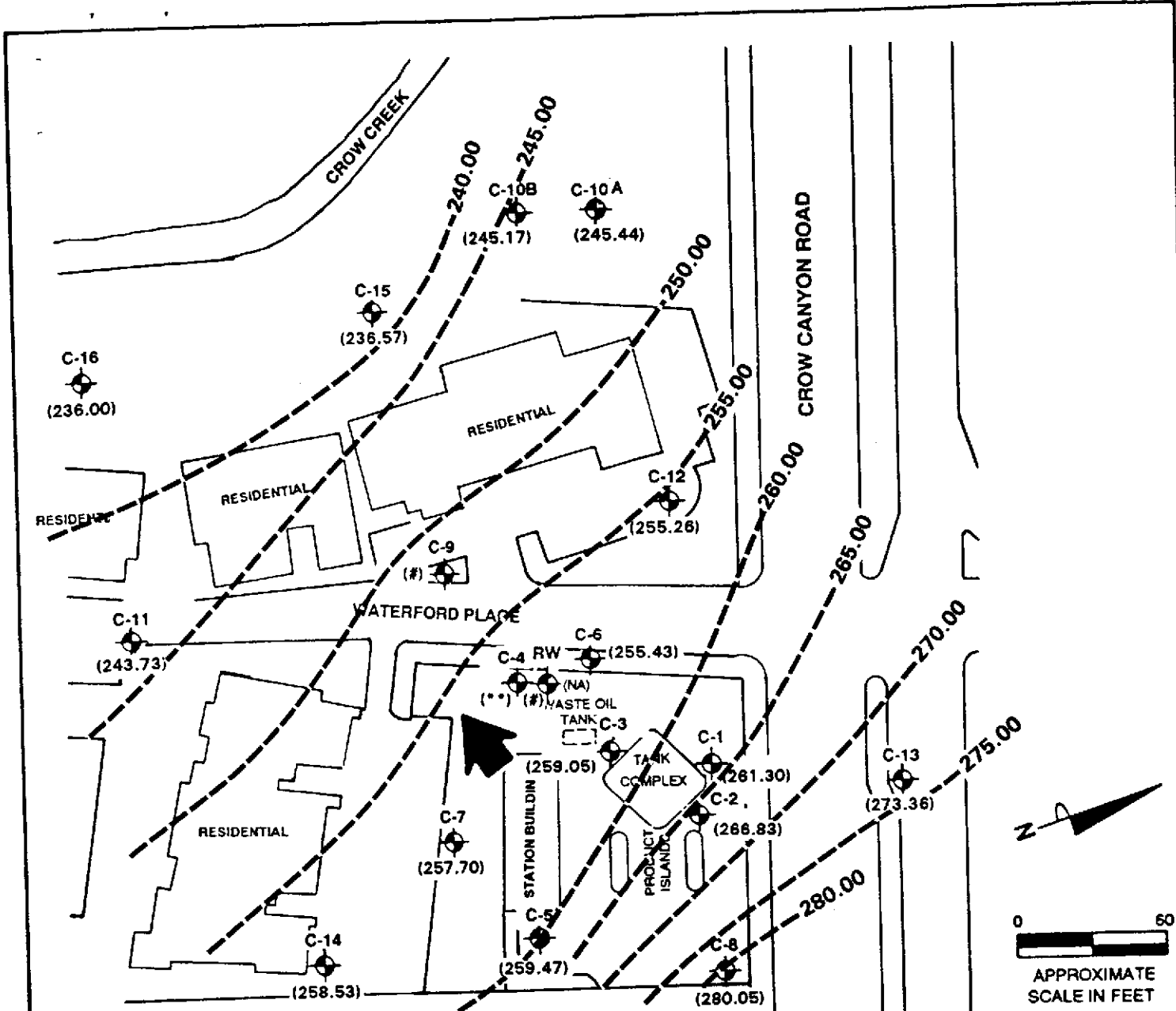


**SCALE IN MILES**



**PROJECT NO. 31-0321**

**SOURCE: USGS 15 MINUTE SERIES  
HAYWARD QUADRANGLE**






**LEGEND:**

-  **GROUND WATER MONITORING WELL**
- (261.30)**  
**GROUND WATER ELEVATION**  
(FEET ABOVE MEAN SEA LEVEL (NGVD-1929))
- (\*\*)(#)** **GROUND WATER ELEVATION DATA NOT AVAILABLE**  
(SEE TABLE 1)
-  **GENERAL GROUND WATER GRADIENT DIRECTION**

**NOTE:**  
1. CONTOUR LINES ARE INTERPRETIVE BASED ON FLUID LEVELS IN MONITORING WELLS MEASURED ON 4/13/92.

**FIGURE 2. GROUND WATER ELEVATION CONTOUR MAP**

Former Chevron Station No. 95607  
5269 Crow Canyon Road  
Castro Valley, California



**ALTON GEOSCIENCE**  
Pleasanton, California

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-1	03/26/85	283.46	22.83	---	260.63	---	---	---	---	---	NA
C-1	07/03/86	283.46	23.58	---	259.88	---	---	---	---	---	NA
C-1	03/26/87	283.46	20.50	---	262.96	---	---	---	---	---	NA
C-1	03/28/88	283.46	26.00	---	257.46	---	---	---	---	---	NA
C-1	03/10/89	283.46	15.86	---	267.60	---	---	---	---	---	NA
C-1	04/03/89	283.46	16.85	---	266.61	---	---	---	---	---	NA
C-1	05/08/89	283.46	22.68	---	260.78	---	---	---	---	---	NA
C-1	06/05/89	283.46	24.66	---	258.80	---	---	---	---	---	NA
C-1	07/12/90	283.46	25.56	---	257.90	---	---	---	---	---	NA
C-1	08/10/90	283.46	25.89	---	257.57	---	---	---	---	---	NA
C-1	09/13/89	283.46	26.55	---	256.91	22000	3600	1100	1000	3500	NA
C-1	10/04/89	283.46	25.24	---	258.22	---	---	---	---	---	NA
C-1	11/03/89	283.46	25.03	---	258.43	---	---	---	---	---	NA
C-1	12/04/89	283.46	26.37	---	257.09	13000	2000	550	610	1600	NA
C-1	03/07/90	283.46	22.48	---	260.98	---	---	---	---	---	NA
C-1	03/09/90	283.46	---	---	283.46	---	---	---	---	---	SAL
C-1	06/12/90	283.46	24.35	---	259.11	21000	3500	1400	840	4000	SAL
C-1	09/20/90	283.46	26.27	0.00	257.19	23000	2100	1200	860	5000	SAL
C-1	12/20/90	283.46	22.59	0.00	260.87	8200	760	410	260	1100	SAL
C-1	03/27/91	283.46	19.08	0.00	264.38	---	---	---	---	---	NA
C-1	06/18/91	283.46	27.11	0.00	256.35	---	---	---	---	---	NA
C-1	09/12/91	283.46	28.22	0.00	255.24	---	---	---	---	---	NA
C-1	01/23/92	283.46	26.65	0.00	256.81	---	---	---	---	---	NA
C-1	04/13/92	283.46	22.16	0.00	261.30	38000	3100	1300	850	3100	SAL

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-2	03/26/85	284.37	---	---	284.37	---	---	---	---	---	NA
C-2	07/03/86	284.37	19.69	---	264.68	---	---	---	---	---	NA
C-2	03/26/87	284.37	15.45	---	268.92	---	---	---	---	---	NA
C-2	03/28/88	284.37	20.92	---	263.45	---	---	---	---	---	NA
C-2	03/10/89	284.37	12.80	---	271.57	---	---	---	---	---	NA
C-2	04/03/89	284.37	14.26	---	270.11	---	---	---	---	---	NA
C-2	05/08/89	284.37	18.42	---	265.95	---	---	---	---	---	NA
C-2	06/05/89	284.37	20.09	---	264.28	---	---	---	---	---	NA
C-2	07/12/90	284.37	20.79	---	263.58	---	---	---	---	---	NA
C-2	08/10/90	284.37	21.40	---	262.97	---	---	---	---	---	NA
C-2	09/13/89	284.37	21.86	---	262.51	320	62	4	10	14	NA
C-2	10/04/89	284.37	19.89	---	264.48	---	---	---	---	---	NA
C-2	11/03/89	284.37	20.76	---	263.61	---	---	---	---	---	NA
C-2	12/04/89	284.37	20.82	---	263.55	1000	240	37	66	130	NA
C-2	03/07/90	284.37	17.83	---	266.54	---	---	---	---	---	NA
C-2	03/09/90	284.37	17.83	---	266.54	390	280	35	27	50	SAL
C-2	06/12/90	284.37	19.89	---	264.48	700	260	34	28	55	SAL
C-2	09/20/90	284.37	21.97	0.00	262.40	---	---	---	---	---	NA
C-2	12/20/90	284.37	17.73	0.00	266.64	---	---	---	---	---	NA
C-2	03/27/91	284.37	15.10	0.00	269.27	---	---	---	---	---	NA
C-2	06/18/91	284.37	22.68	0.00	261.69	---	---	---	---	---	NA
C-2	09/12/91	284.37	23.92	0.00	260.45	---	---	---	---	---	NA
C-2	01/23/92	284.37	21.24	0.00	263.13	---	---	---	---	---	NA
C-2	04/13/92	284.37	17.54	0.00	266.83	1100	120	76	17	72	SAL



Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-3	03/26/85	285.98	---	---	285.98	---	---	---	---	---	NA
C-3	07/03/86	285.98	26.04	---	259.94	---	---	---	---	---	NA
C-3	03/26/87	285.98	25.64	---	260.34	---	---	---	---	---	NA
C-3	03/28/88	285.98	28.82	---	257.16	---	---	---	---	---	NA
C-3	03/10/89	285.98	22.78	---	263.20	---	---	---	---	---	NA
C-3	04/03/89	285.98	22.71	---	263.27	---	---	---	---	---	NA
C-3	05/08/89	285.98	25.95	---	260.03	---	---	---	---	---	NA
C-3	06/05/89	285.98	27.62	---	258.36	---	---	---	---	---	NA
C-3	07/12/90	285.98	28.29	---	257.69	---	---	---	---	---	NA
C-3	08/10/90	285.98	28.46	---	257.52	---	---	---	---	---	NA
C-3	09/13/89	285.98	29.33	---	256.65	60000	1400	6800	2300	10000	NA
C-3	10/04/89	285.98	28.97	---	257.01	---	---	---	---	---	NA
C-3	11/03/89	285.98	28.72	---	257.26	---	---	---	---	---	NA
C-3	12/04/89	285.98	29.01	---	256.97	56000	1300	3300	1400	2700	NA
C-3	03/07/90	285.98	27.69	---	258.29	---	---	---	---	---	NA
C-3	03/09/90	285.98	27.69	---	258.29	42000	1100	5700	1600	7900	SAL
C-3	06/12/90	285.98	28.09	---	257.89	160000	1400	7100	3400	16000	SAL
C-3	09/24/90	285.98	29.18	0.00	256.80	53000	850	7700	2000	10000	SAL
C-3	12/20/90	285.98	28.27	0.00	257.71	520	1200	5400	5400	33000	SAL
C-3	03/27/91	285.98	24.80	0.00	261.18	92000	1300	3100	1200	11000	SAL
C-3	06/18/91	285.98	30.84	0.00	255.14	---	---	---	---	---	NA
C-3##	09/12/91	285.98	31.64	0.03	254.34	---	---	---	---	---	NA
C-3	01/23/92	285.98	30.52	SHEEN	255.46	---	---	---	---	---	NA
C-3##	04/13/92	285.98	26.94	0.01	259.05	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-4	03/26/85	273.01	15.14	---	257.87	---	---	---	---	---	NA
C-4	07/03/86	273.01	15.37	---	257.64	---	---	---	---	---	NA
C-4	03/26/87	273.01	---	---	273.01	---	---	---	---	---	NA
C-4	03/28/88	273.01	18.04	---	254.97	---	---	---	---	---	NA
C-4	03/10/89	273.01	---	---	273.01	---	---	---	---	---	NA
C-4	04/03/89	273.01	13.34	---	259.67	---	---	---	---	---	NA
C-4	05/08/89	273.01	15.60	---	257.41	---	---	---	---	---	NA
C-4	06/05/89	273.01	16.51	---	256.50	---	---	---	---	---	NA
C-4	07/12/90	273.01	16.99	---	256.02	---	---	---	---	---	NA
C-4	08/10/90	273.01	17.27	---	255.74	---	---	---	---	---	NA
C-4	09/13/89	273.01	18.16	---	254.85	57000	21000	3100	3200	11000	NA
C-4	10/04/89	273.01	18.24	---	254.77	---	---	---	---	---	NA
C-4	11/03/89	273.01	18.17	---	254.84	---	---	---	---	---	NA
C-4	12/04/89	273.01	18.45	---	254.56	48000	17000	2200	2800	9800	NA
C-4	03/07/90	273.01	17.20	---	255.81	---	---	---	---	---	NA
C-4	03/09/90	273.01	17.20	---	255.81	43000	20000	2300	2800	11000	SAL
C-4	06/12/90	273.01	16.66	---	256.35	82000	21000	2400	4000	16000	SAL
C-4	09/24/90	273.01	18.11	0.00	254.90	---	---	---	---	---	NA
C-4**	12/20/90	---	---	---	---	---	---	---	---	---	NA
C-4**	03/27/91	---	---	---	---	---	---	---	---	---	NA
C-4**	06/18/91	---	---	---	---	---	---	---	---	---	NA
C-4**	09/12/91	---	---	---	---	---	---	---	---	---	NA
C-4**	01/23/92	---	---	---	---	---	---	---	---	---	NA
C-4**	04/13/92	---	---	---	---	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-5	03/26/85	287.95	25.33	---	262.62	---	---	---	---	---	NA
C-5	07/03/86	287.95	26.41	---	261.54	---	---	---	---	---	NA
C-5	03/26/87	287.95	24.96	---	262.99	---	---	---	---	---	NA
C-5	03/28/88	287.95	29.80	---	258.15	---	---	---	---	---	NA
C-5	03/10/89	287.95	25.89	---	262.06	---	---	---	---	---	NA
C-5	04/03/89	287.95	24.38	---	263.57	---	---	---	---	---	NA
C-5	05/08/89	287.95	27.80	---	260.15	---	---	---	---	---	NA
C-5	06/05/89	287.95	29.42	---	258.53	---	---	---	---	---	NA
C-5	07/12/90	287.95	29.86	---	258.09	---	---	---	---	---	NA
C-5	08/10/90	287.95	29.77	---	258.18	---	---	---	---	---	NA
C-5	09/13/89	287.95	30.95	---	257.00	310	ND	ND	ND	ND	NA
C-5	10/04/89	287.95	31.48	---	256.47	---	---	---	---	---	NA
C-5	11/03/89	287.95	31.32	---	256.63	---	---	---	---	---	NA
C-5	12/04/89	287.95	31.70	---	256.25	ND	ND	ND	ND	1	NA
C-5	03/07/90	287.95	30.28	---	257.67	---	---	---	---	---	NA
C-5	03/09/90	287.95	30.28	---	257.67	ND	ND	ND	ND	ND	SAL
C-5	06/12/90	287.95	30.48	---	257.47	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	09/24/90	287.95	31.78	0.00	256.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-5	12/20/90	287.95	33.29	0.00	254.66	170	ND<0.5	ND<0.5	1.0	0.7	SAL
C-5	03/27/91	287.95	27.98	0.00	259.97	---	---	---	---	---	NA
C-5	06/18/91	287.95	32.52	0.00	255.43	---	---	---	---	---	NA
C-5	09/12/91	287.95	33.37	0.00	254.58	---	---	---	---	---	NA
C-5	01/23/92	287.95	32.67	0.00	255.28	---	---	---	---	---	NA
C-5	04/13/92	287.95	28.48	0.00	259.47	140	ND<0.5	ND<0.5	0.7	ND<0.5	SAL

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-6	03/26/85	---	16.74	---	---	---	---	---	---	---	NA
C-6	07/03/86	275.28	17.46	---	257.82	---	---	---	---	---	NA
C-6	03/26/87	275.28	18.37	---	256.91	---	---	---	---	---	NA
C-6	03/28/88	275.28	29.84	---	245.44	---	---	---	---	---	NA
C-6	03/10/89	275.28	14.44	---	260.84	---	---	---	---	---	NA
C-6	04/03/89	275.28	14.44	---	260.84	---	---	---	---	---	NA
C-6	05/08/89	275.28	17.16	---	258.12	---	---	---	---	---	NA
C-6	06/05/89	275.28	18.51	---	256.77	---	---	---	---	---	NA
C-6	07/12/90	275.28	18.71	---	256.57	---	---	---	---	---	NA
C-6	08/10/90	275.28	19.32	---	255.96	---	---	---	---	---	NA
C-6	09/13/89	275.28	19.95	---	255.33	47	5600	3000	2400	10000	NA
C-6	10/04/89	275.28	19.87	---	255.41	---	---	---	---	---	NA
C-6	11/03/89	275.28	19.35	---	255.93	---	---	---	---	---	NA
C-6	12/04/89	275.28	19.59	---	255.69	40000	8100	1800	1700	7500	NA
C-6	03/07/90	275.28	18.39	---	256.89	---	---	---	---	---	NA
C-6	03/09/90	275.28	18.39	---	256.89	73000	23000	5900	3400	17000	SAL
C-6	06/12/90	275.28	18.87	---	256.41	85000	19000	6500	3400	16000	SAL
C-6	09/24/90	275.28	19.99	0.00	255.29	72000	15000	3200	2600	11000	SAL
C-6	12/20/90	275.28	21.57	0.00	253.71	100000	11000	4200	3400	16000	SAL
C-6	03/27/91	275.28	16.32	0.00	258.96	100000	11000	4400	2300	11000	SAL
C-6	06/18/91	275.28	23.33	0.00	251.95	---	---	---	---	---	NA
C-6	09/12/91	275.28	23.96	0.00	251.32	---	---	---	---	---	NA
C-6	01/23/92	275.28	23.08	0.00	252.20	---	---	---	---	---	NA
C-6	04/13/92	275.28	19.85	SHEEN	255.43	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-7	03/26/85	---	9.61	---	---	---	---	---	---	---	NA
C-7	07/03/86	270.70	10.74	---	259.96	---	---	---	---	---	NA
C-7	03/26/87	270.70	10.08	---	260.62	---	---	---	---	---	NA
C-7	03/28/88	270.70	13.79	---	256.91	---	---	---	---	---	NA
C-7	03/10/89	270.70	10.42	---	260.28	---	---	---	---	---	NA
C-7	04/03/89	270.70	9.14	---	261.56	---	---	---	---	---	NA
C-7	05/08/89	270.70	11.91	---	258.79	---	---	---	---	---	NA
C-7	06/05/89	270.70	11.54	---	259.16	---	---	---	---	---	NA
C-7	07/12/90	270.70	13.45	---	257.25	---	---	---	---	---	NA
C-7	08/10/90	270.70	13.37	---	257.33	---	---	---	---	---	NA
C-7	09/13/89	270.70	14.60	---	256.10	410	1.3	ND	10	ND	NA
C-7	10/04/89	270.70	15.17	---	255.53	---	---	---	---	---	NA
C-7	11/03/89	270.70	15.28	---	255.42	---	---	---	---	---	NA
C-7	12/04/89	270.70	15.70	---	255.00	1000	1	ND	5	ND	NA
C-7	03/07/90	270.70	14.22	---	256.48	---	---	---	---	---	NA
C-7	03/09/90	270.70	14.22	---	256.48	590	2.8	2.4	3.5	2.0	SAL
C-7	06/12/90	270.70	14.18	---	256.52	1200	ND<7	5.0	8.2	3.2	SAL
C-7	09/24/90	270.70	15.44	SHEEN	255.26	400	1.4	1.9	1.4	2.2	SAL
C-7	09/24/90	270.70	15.44	SHEEN	255.26	580	ND<0.5	2.4	1.4	1.5	SAL
C-7	12/20/90	270.70	17.08	0.00	253.62	2300	ND<0.5	6.5	4.7	9.3	SAL
C-7	03/27/91	270.70	12.65	0.00	258.05	980	ND<0.5	2.4	9.1	3.0	SAL
C-7	06/18/91	270.70	16.44	0.00	254.26	---	---	---	---	---	NA
C-7	09/12/91	270.70	17.05	0.00	253.65	1200 ***	ND<0.5	3.1	6.5	2.7	SAL
C-7	01/23/92	270.70	16.92	0.00	253.78	---	---	---	---	---	NA
C-7	04/13/92	270.70	13.00	0.00	257.70	830	ND<0.5	1.0	7.8	1.2	SAL

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-8	03/26/85	---	8.68	---	---	---	---	---	---	---	NA
C-8	07/03/86	288.40	13.89	---	274.51	---	---	---	---	---	NA
C-8	03/26/87	288.40	6.01	---	282.39	---	---	---	---	---	NA
C-8	03/28/88	288.40	10.66	---	277.74	---	---	---	---	---	NA
C-8	03/10/89	288.40	6.61	---	281.79	---	---	---	---	---	NA
C-8	04/03/89	288.40	6.46	---	281.94	---	---	---	---	---	NA
C-8	05/08/89	288.40	8.97	---	279.43	---	---	---	---	---	NA
C-8	06/05/89	288.40	10.88	---	277.52	---	---	---	---	---	NA
C-8	07/12/90	288.40	12.15	---	276.25	---	---	---	---	---	NA
C-8	08/10/90	288.40	12.46	---	275.94	---	---	---	---	---	NA
C-8	09/13/89	288.40	12.78	---	275.62	ND	ND	ND	ND	ND	NA
C-8	10/04/89	288.40	12.51	---	275.89	---	---	---	---	---	NA
C-8	11/03/89	288.40	14.63	---	273.77	---	---	---	---	---	NA
C-8	12/04/89	288.40	9.59	---	278.81	64	0.6	0.6	ND	1	NA
C-8	03/07/90	288.40	8.80	---	279.60	---	---	---	---	---	NA
C-8	03/09/90	288.40	8.80	---	279.60	ND	ND	ND	ND	ND	NA
C-8	06/12/90	288.40	8.94	---	279.46	120	2.5	1.2	1.0	1.4	SAL
C-8	09/24/90	288.40	13.54	0.00	274.86	---	---	---	---	---	NA
C-8	12/20/90	288.40	9.33	0.00	279.07	---	---	---	---	---	NA
C-8	03/27/91	288.40	6.10	0.00	282.30	54	0.7	ND<0.5	0.7	1.9	SAL
C-8	06/18/91	288.40	11.96	0.00	276.44	---	---	---	---	---	NA
C-8	09/12/91	288.40	13.60	0.00	274.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-80	09/12/91	288.40	13.60	0.00	274.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-8	01/23/92	288.40	24.20	0.00	264.20	---	---	---	---	---	NA
C-8	04/13/92	288.40	8.35	0.00	280.05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-9	07/03/86	268.46	13.89	---	254.57	---	---	---	---	---	NA
C-9	03/26/87	268.46	13.74	---	254.72	---	---	---	---	---	NA
C-9	03/28/88	268.46	14.99	---	253.47	---	---	---	---	---	NA
C-9	03/10/89	268.46	13.39	---	255.07	---	---	---	---	---	NA
C-9	04/03/89	268.46	12.84	---	255.62	---	---	---	---	---	NA
C-9	05/08/89	268.46	14.38	---	254.08	---	---	---	---	---	NA
C-9	06/05/89	268.46	15.36	---	253.10	---	---	---	---	---	NA
C-9	07/12/90	268.46	15.65	---	252.81	---	---	---	---	---	NA
C-9	08/10/90	268.46	15.80	---	252.66	---	---	---	---	---	NA
C-9	09/13/89	268.46	16.53	---	251.93	42000	14000	1100	2800	4200	NA
C-9	10/04/89	268.46	16.52	---	251.94	---	---	---	---	---	NA
C-9	11/03/89	268.46	16.51	---	251.95	---	---	---	---	---	NA
C-9	12/04/89	268.46	16.79	---	251.67	36000	11000	670	2500	3800	NA
C-9	03/07/90	268.46	16.22	---	252.24	---	---	---	---	---	NA
C-9	03/09/90	268.46	16.22	---	252.24	28000	12000	940	3000	4700	NA
C-9	06/12/90	268.40	14.88	---	253.52	39000	11000	1600	2300	4800	SAL
C-9	09/24/90	268.40	16.30	0.00	252.10	120000	13000	1600	3700	6800	SAL
C-9	12/20/90	268.40	17.23	0.00	251.17	51000	9300	560	2800	3300	SAL
C-9D	12/20/90	268.40	17.23	0.00	251.17	44000	12000	580	2800	3500	SAL
C-9	03/27/91	268.40	13.78	0.00	254.62	56000	3400	5000	1600	5600	SAL
C-9	06/18/91	268.40	18.64	0.00	249.76	---	---	---	---	---	NA
C-9#	09/12/91	268.40	---	---	---	---	---	---	---	---	NA
C-9#	01/23/92	268.40	---	---	---	---	---	---	---	---	NA
C-9#	04/13/92	268.40	---	---	---	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California  
 Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-10A	03/07/90	264.84	20.21	---	244.63	---	---	---	---	---	NA
C-10A	03/09/90	264.84	---	---	264.84	ND<50	1.6	0.7	0.8	3.5	SAL
C-10A	06/12/90	264.84	19.70	---	245.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10A	09/24/90	264.84	19.54	0.00	245.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10A	12/20/90	264.84	19.84	0.00	245.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10A	03/27/91	264.84	18.01	0.00	246.83	---	---	---	---	---	NA
C-10A	06/18/91	264.84	20.16	0.00	244.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10A	09/12/91	264.84	20.57	0.00	244.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10A	01/23/92	264.84	20.67	0.00	244.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10A	04/13/92	264.84	19.40	0.00	245.44	53	0.9	1.3	ND<0.5	1.0	SAL
C-10B	03/07/90	264.85	21.44	---	243.41	---	---	---	---	---	NA
C-10B	06/12/90	264.85	19.94	---	244.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	09/24/90	264.85	19.77	0.00	245.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	12/20/90	264.85	20.00	0.00	244.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	03/27/91	264.85	18.23	0.00	246.62	---	---	---	---	---	NA
C-10B	06/18/91	264.85	20.44	0.00	244.41	---	---	---	---	---	NA
C-10B	09/12/91	264.85	20.82	0.00	244.03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	01/23/92	264.85	20.92	0.00	243.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-10B	04/13/92	264.85	19.68	0.00	245.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	03/07/90	265.30	22.74	---	242.56	---	---	---	---	---	NA
C-11	03/09/90	265.30	---	---	265.30	ND<50	1.2	0.7	ND	1.4	SAL
C-11	06/12/90	265.30	21.98	---	243.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	09/24/90	265.30	21.88	0.00	243.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	12/20/90	265.30	23.18	0.00	242.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	03/27/91	265.30	21.52	0.00	243.78	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	SAL
C-11	06/18/91	265.30	21.90	0.00	243.40	---	---	---	---	---	NA
C-11	09/12/91	265.30	22.70	0.00	242.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	01/23/92	265.30	23.46	0.00	241.84	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-11	04/13/92	265.30	21.57	0.00	243.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL



Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-12	03/07/90	269.66	14.92	---	254.74	---	---	---	---	---	NA
C-12	03/09/90	269.66	---	---	269.66	1400	230	140	33	180	SAL
C-12	06/12/90	269.66	14.79	---	254.87	720	190	71	18	73	SAL
C-12	09/24/90	269.66	15.72	0.00	253.94	ND<50	1.1	ND<0.5	ND<0.5	0.6	SAL
C-12	12/20/90	269.66	15.26	0.00	254.40	810	210	26	8.2	23	SAL
C-12	03/27/91	269.66	12.11	0.00	257.55	2900	350	220	52	210	SAL
C-12	06/18/91	269.66	16.38	0.00	253.28	---	---	---	---	---	NA
C-12	09/12/91	269.66	17.55	0.00	252.11	350	59	12	4.5	8.5	NA
C-12	01/23/92	269.66	17.11	0.00	252.55	450	110	31	7.9	22	SAL
C-12	04/13/92	269.66	14.40	0.00	255.26	5000	1100	76	100	200	SAL
C-13	03/07/90	284.32	11.18	---	273.14	---	---	---	---	---	NA
C-13	03/09/90	284.32	---	---	284.32	ND<50	15	3.7	1.0	6.2	SAL
C-13	06/12/90	284.32	10.70	---	273.62	ND<50	2.6	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	09/24/90	284.32	11.60	0.00	272.72	ND<50	2.4	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	12/20/90	284.32	10.16	0.00	274.16	ND<50	1.6	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	03/27/91	284.32	7.64	0.00	276.68	---	---	---	---	---	NA
C-13	06/18/91	284.32	11.32	0.00	273.00	---	---	---	---	---	NA
C-13	09/12/91	284.32	11.84	0.00	272.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-13	01/23/92	284.32	10.55	0.00	273.77	---	---	---	---	---	NA
C-13	04/13/92	284.32	10.96	0.00	273.36	ND<50	1.0	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	03/07/90	270.74	15.18	---	255.56	---	---	---	---	---	NA
C-14	03/09/90	270.74	---	---	270.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	06/12/90	270.74	13.42	---	257.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	09/24/90	270.74	12.84	0.00	257.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	12/20/90	270.74	16.72	0.00	254.02	ND<50	1.7	0.7	ND<0.5	0.7	SAL
C-14	03/27/91	270.74	8.00	0.00	262.74	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	SAL
C-14	06/18/91	270.74	15.21	0.00	255.53	---	---	---	---	---	NA
C-14	09/12/91	270.74	15.61	0.00	255.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-14	01/23/92	270.74	24.64	0.00	246.10	---	---	---	---	---	NA
C-14	04/13/92	270.74	12.21	0.00	258.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

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 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-15	03/07/90	246.15	11.10	---	235.05	---	---	---	---	---	NA
C-15	03/09/90	246.15	---	---	246.15	410	ND<0.5	1.4	0.5	0.6	SAL
C-15	06/12/90	246.15	10.78	---	235.37	420	11	ND<0.5	ND<0.5	ND<0.5	SAL
C-15	09/24/90	246.15	10.93	0.00	235.22	430	ND<0.5	1.5	ND<0.5	ND<0.5	SAL
C-15	12/20/90	246.15	11.08	0.00	237.07	300	1.3	1.1	0.6	1.5	SAL
C-15	03/27/91	246.15	8.50	0.00	237.65	520 ***	4.6	1.1	ND<0.5	1.0	SAL
C-15	06/18/91	246.15	10.83	0.00	235.32	290	ND<0.5	1.1	ND<0.5	ND<0.5	SAL
C-15D	06/18/91	246.15	10.83	0.00	235.32	320	ND<0.5	1.3	ND<0.5	ND<0.5	SAL
C-15	09/12/91	246.15	11.05	0.00	235.10	330 ***	ND<0.5	0.9	ND<0.5	ND<0.5	SAL
C-15	01/23/92	246.15	10.80	0.00	235.35	210	ND<0.5	0.6	ND<0.5	ND<0.5	SAL
C-15D	01/23/92	246.15	10.80	0.00	235.35	190	1.2	0.8	ND<0.5	ND<0.5	SAL
C-15	04/13/92	246.15	9.58	0.00	236.57	430	1.8	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	03/07/90	246.69	18.50	---	228.19	---	---	---	---	---	NA
C-16	03/09/90	246.69	---	---	246.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	06/12/90	246.69	11.42	---	235.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	09/24/90	246.69	11.39	0.00	235.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	12/20/90	246.69	11.57	0.00	235.12	ND<50	ND<0.5	ND<0.5	ND<0.5	0.7	SAL
C-16	03/27/91	246.69	8.76	0.00	237.93	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	SAL
C-16D	03/27/91	246.69	8.76	0.00	237.93	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2	SAL
C-16	06/18/91	246.69	11.18	0.00	235.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	09/12/91	246.69	11.95	0.00	234.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	01/23/92	246.69	12.41	0.00	234.28	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-16	04/13/92	246.69	10.69	0.00	236.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RW	12/04/89	---	---	---	---	62000	29000	1700	1800	8800	NA
RW	03/07/90	274.52	18.50	---	256.02	---	---	---	---	---	NA
RW	06/12/90	274.52	18.49	---	256.03	31000	15000	2000	560	3100	SAL
RW	09/24/90	274.52	---	0.00	---	---	---	---	---	---	NA
RW	12/20/90	274.52	---	0.00	---	ND<50	0.5	ND<0.5	ND<0.5	1.2	SAL
RW	03/27/91	274.52	---	0.00	---	---	---	---	---	---	NA
RW	06/18/91	274.52	---	0.00	---	---	---	---	---	---	NA
RW#	09/12/91	274.52	---	0.00	---	---	---	---	---	---	NA
RW#	01/23/92	274.52	---	0.00	---	---	---	---	---	---	NA
RW#	04/13/92	274.52	---	0.00	---	---	---	---	---	---	NA

Table 1  
 Summary of Results of Ground Water Sampling  
 Former Chevron Service Station # 9-5607  
 5269 Crow Canyon Road, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	L-PH	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
TB	09/24/90	NA	NA	NA	NA	200	1.9	14	4.4	32	SAL
TB	12/20/90	NA	NA	NA	NA	ND<50	0.5	ND<0.5	ND<0.5	1.2	SAL
TB	03/27/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	06/18/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	09/12/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	01/23/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	04/13/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	09/24/90	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	12/20/90	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	0.9	SAL
RINSATE	03/27/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	06/18/91	NA	NA	NA	NA	ND<50	ND<0.5	0.6	ND<0.5	0.9	SAL
RINSATE	09/12/91	NA	NA	NA	NA	ND<50	ND<0.5	0.6	ND<0.5	0.9	SAL
RINSATE	01/23/92	NA	NA	NA	NA	ND<50	ND<0.5	1.3	ND<0.5	ND<0.5	SAL
RINSATE	04/13/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

EXPLANATION OF ABBREVIATIONS:

TPH-G :Total Petroleum Hydrocarbons as Gasoline  
 (EPA method 8015 modified)  
 B :Benzene (EPA method 8020 or 8240)  
 T :Toluene (EPA method 8020 or 8240)  
 E :Ethylbenzene (EPA method 8020 or 8240)  
 X :Xylenes (EPA method 8020 or 8240)  
 --- :Not Analyzed/Not Measured  
 NA :Not Applicable/Not Available  
 ND :Not Detected  
 TB :Trip Blank

D :Duplicate  
 SAL :Superior Analytical Laboratory  
 \* :Not sampled due to insufficient water in well.  
 \*\* :Well could not be located.  
 \*\*\* :Typical gasoline chromatographic  
 pattern not present.  
 # :Not sampled: Well adapted for onsite remediation  
 system.  
 ## :Ground water elevation corrected assuming  
 0.8 specific gravity for gasoline.

Note: Top of casing and ground water elevations are expressed as feet above mean sea level (NGVD-1929).

Sampling Frequency: Annual: C-1, C-2, C-4, C-5, C-6, C-9, RW  
 Semiannual: C-7, C-8, C-13, C-14  
 Quarterly: C-3, C-10A, C-10B, C-11, C-12, C-15, C-16

**APPENDIX A**  
**OFFICIAL LABORATORY RESULTS**  
**AND**  
**CHAIN OF CUSTODY FORMS**



# Superior Precision Analytical, Inc.

APR 24 1992

1555 Burlingame Unit I • San Francisco, California 94124 • (415) 477-2081 / (415) 821-7123

## CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12998  
CLIENT: Alton Geoscience  
CLIENT JOB NO.: 31-0321

DATE RECEIVED: 04/15/92  
DATE REPORTED: 04/22/92

Page 1 of 3

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12998- 1	TB	04/13/92	04/17/92
12998- 2	RINS	04/13/92	04/17/92
12998- 3	C-10A	04/13/92	04/17/92
12998- 4	C-10B	04/13/92	04/17/92
12998- 5	C-11	04/13/92	04/17/92
12998- 6	C-12	04/13/92	04/17/92
12998- 7	C-13	04/13/92	04/17/92
12998- 8	C-14	04/14/92	04/17/92
12998- 9	C-1	04/14/92	04/17/92
12998-10	C-2	04/14/92	04/17/92

Laboratory Number:	12998 1	12998 2	12998 3	12998 4	12998 5
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ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	ND<50	53	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<0.5	ND<0.5	0.9	ND<0.5	ND<0.5
TOLUENE:	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5
ETHYL BENZENE:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
XYLENES:	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5

Laboratory Number:	12998 6	12998 7	12998 8	12998 9	12998 10
--------------------	------------	------------	------------	------------	-------------

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	5000	ND<50	ND<50	38000	1100
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	1100	1.0	ND<0.5	3100	120
TOLUENE:	76	ND<0.5	ND<0.5	1300	76
ETHYL BENZENE:	100	ND<0.5	ND<0.5	850	17
XYLENES:	200	ND<0.5	ND<0.5	3100	72



# Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 347-2081 / fax (415) 821-7123

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

LABORATORY NO.: 12998  
CLIENT: Alton Geoscience  
CLIENT JOB NO.: 31-0321

DATE RECEIVED: 04/15/92  
DATE REPORTED: 04/22/92

Page 2 of 3

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12998-11	C-5	04/14/92	04/17/92
12998-12	C-7	04/14/92	04/17/92
12998-13	C-8	04/14/92	04/20/92
12998-14	C-15	04/14/92	04/17/92
12998-15	C-16	04/14/92	04/17/92

Laboratory Number:	12998 11	12998 12	12998 13	12998 14	12998 15
--------------------	-------------	-------------	-------------	-------------	-------------

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	140	830	ND<50	430	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5
TOLUENE:	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5
ETHYL BENZENE:	0.7	7.8	ND<0.5	ND<0.5	ND<0.5
XYLENES:	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5



CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 12998

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/l = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/l
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/l
Standard Reference: 10/12/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/l
Standard Reference: 04/07/92

Table with 6 columns: ANALYTE, REFERENCE, SPIKE LEVEL, MS/MSD RECOVERY, RPD, CONTROL LIMIT. Rows include Oil & Grease, Diesel, Gasoline, Benzene, Toluene, Ethyl Benzene, and Total Xylene.

Richard Srna, Ph.D.

Cecilia G. Jorgensen (for)
Laboratory Director

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

Chevron Facility Number 9-5607  
Facility Address 5269 Crow Canyon Rd, Castro Valley  
Consultant Project Number 31-0321  
Consultant Name Alton Geoscience  
Address 5870 Stoneridge Dr. #6, Pleasanton  
Project Contact (Name) John DeGeorge  
(Phone) (510) 734-8134 (Fax Number) (510) 734-8420

Chevron Contact (Name) Clint Rogers  
(Phone) 542-9500  
Laboratory Name Superior Analytical  
Laboratory Release Number 2542150  
Samples Collected by (Name) Jon Vail  
Collection Date 4-13-92  
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Diurnal	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed										Remarks	
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Greases (8520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
TB		1	W	G	0900		Y	X											Analyze
RINS		2	W	G	1548	HCl	Y	X											
C-10A		2	W	G	1759	HCl	Y	X											
C-10B		2	W	G	1550	HCl	Y	X											
C-11		2	W	G	1739	HCl	Y	X											
C-12		2	W	G	1727	HCl	Y	X											
C-13		2	W	G	1449	HCl	Y	X											
C-14		2	W	G	1716	HCl	Y	X											

1  
Soil samples  
Appropriate  
Samples  
Vials without  
contents

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>ALTON</u>	Date/Time <u>4-15-92 0730</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Alton</u>	Date/Time <u>4-15-92 0730</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. <u>5 Days</u> 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Alton</u>	Date/Time <u>4-15-92 1050</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Exp-it</u>	Date/Time <u>4-15-92 1050</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Exp-it</u>	Date/Time <u>4-15-92 1148</u>	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>4-15-92 11:30AM</u>	

COC-3 DWG/03 91/PCB



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

19-2-01  
Chain-of-Custody-Record

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

Chevron Facility Number 9-5607  
Facility Address 5269 Crow Canyon Rd, Castro Valley  
Consultant Project Number 31-0321  
Consultant Name Alton Geoscience  
Address 5870 Stoneridge Dr. #6, Pleasanton  
Project Contact (Name) John DeGeorge  
(Phone) (510)734-8134 (Fax Number) (510)734-8420

Chevron Contact (Name) Clint Rogers  
(Phone) 842-9500  
Laboratory Name Superior Analytical  
Laboratory Release Number 2542150  
Samples Collected by (Name) Jon Vail  
Collection Date 4-14-92  
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed										Remarks
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)			
C-1		2	W	G	1535	HCl	Y	X										Analyze - Possible High Conc.
C-2		2	W	G	1542	HCl	Y	X										Analyze
C-5		2	W	G	1311	HCl	Y	X										Analyze
C-7		2	W	G	0852	HCl	Y	X										Analyze
C-8		2	W	G	1332	HCl	Y	X										Analyze
C-15		2	W	G	1006	HCl	Y	X										Analyze
C-16		2	W	G	0934	HCl	Y	X										Analyze

COC-7. Rev 9.03 3/7/92

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>ALTON</u>	Date/Time <u>4-15-92 0730</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Alton</u>	Date/Time <u>4-15-92 0730</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. <u>5 Days</u> 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Alton</u>	Date/Time <u>4-15-92 1050</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Expt</u>	Date/Time <u>4-15-92 1050</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Expt</u>	Date/Time <u>4-15-92 11:58</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization <u>Expt</u>	Date/Time <u>4-15-92 11:30AM</u>	