



Chevron U.S.A. Products Company

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

April 7, 1992

92 APR 13 10 4: 21

Marketing Department

Mr. Paul Smith
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

STIP 478

Re: Former Chevron Service Station #9-4816
301 14th Street, Oakland

94612

Dear Mr. Smith:

Enclosed we are forwarding the Quarterly Ground Water Monitoring report dated March 11, 1992, prepared by our consultant Alton Geoscience for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene was detected in monitor wells C-4 ^{only} at a concentration of 100 ppb. Separate-phase hydrocarbons were observed in monitor wells C-1, C-2, C-3, C-5 and CR-1 at measured thicknesses of .01, .01, 2.31, 1.54 and 2.29-feet, respectively. Depth to ground water was measured at approximately 22 to 24-feet below grade, and the direction of flow is to the south-southeast.

As stated in the addendum to the corrective action work plan dated March 5, 1992, the soil vapor extraction system was started up on March 12, 1992. It appears that we are seeing a positive effect on mitigating the separate-phase hydrocarbons as the measured thickness in monitor well CR-1 has increased from 3 to 9-feet. As also documented in the addendum, a work plan will be submitted to you by May 1, 1992, outlining additional work steps we propose to take with respect to delineating the extent of the plume. Also, a bimonthly performance evaluation report will be prepared and submitted to you for review on the system effectiveness.

no results

Chevron will continue to monitor this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

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

Nancy Vukelich
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB
Mr. Tom Berry, Weiss Associates
Mr. R.W. Cosby, 225/1936
Ms B.C. Owen
File (9-4816Q3)

Ms. Beth D. Castleberry
Ware & Freidenrich
400 Hamilton Avenue
Palo Alto, CA 94301-1825

March 11, 1992

Ms. Nancy Vukelich
Chevron U.S.A., Inc.
Post Office Box 5004
San Ramon, California 94583-0804

31-0557

Subject: Quarterly Ground Water Monitoring Report
Former Chevron Station No. 9-4816
301 14th Street
Oakland, California

Dear Ms. Vukelich:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-4816, 301 14th Street, Oakland, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on February 4, 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 stored onsite in DOT-approved, 55-gallon drums pending removal by Erickson Inc., a licensed hauler. The purged ground water was transported as non-hazardous to Gibson Oil/ Pilot Petroleum of Redwood City, California for recycling.

Ms. Nancy Vukelich
March 11, 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.

Liquid-phase hydrocarbons were observed in monitoring wells C-1, C-2, C-3, C-5 and CR-1. During the month of January and including Alton's visit to the site on February 4, 1992, approximately 25 gallons of free product, in total, was manually recovered from the wells.

The official laboratory reports and chain of custody records are included in Appendix A.

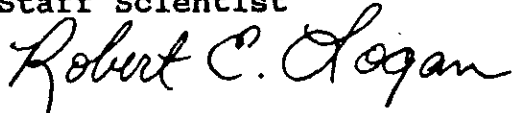
Please call Dale Swain at (510) 734-8134 if you have any questions regarding this report.

Sincerely,

ALTON GEOSCIENCE,



Dale Swain
Staff Scientist



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

wp94816ds



FIGURE 1: VICINITY MAP

FORMER CHEVRON SERVICE
 STATION NO. 4816
 301 14th STREET
 OAKLAND, CALIFORNIA

*Other Chevron
 (1633 Harrison)*

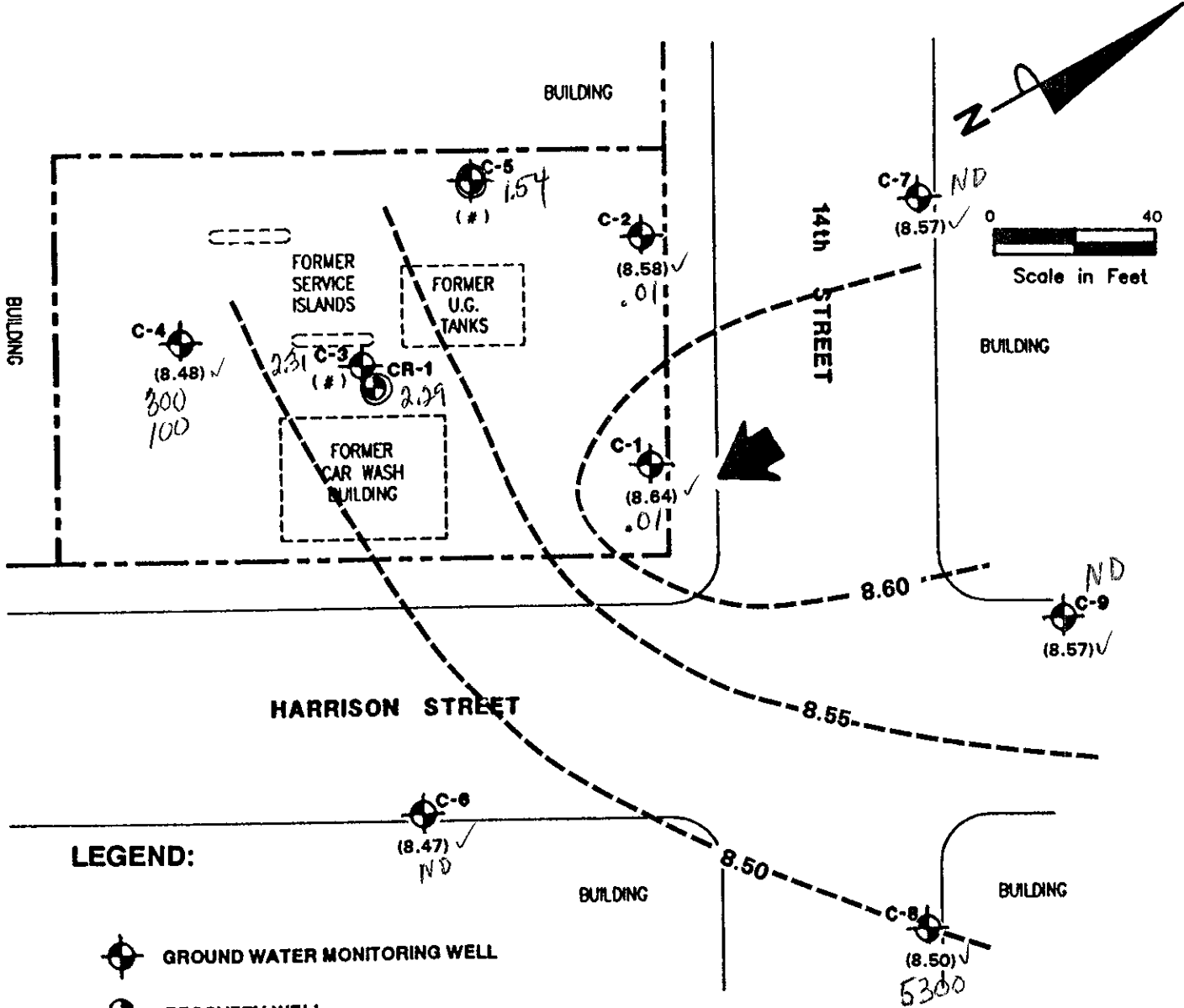


PROJECT NO. 31-0557

SOURCE: GEOSTRATEGIES, INC.



ALTON GEOSCIENCE
 Pleasanton, California



LEGEND:



GROUND WATER MONITORING WELL



RECOVERY WELL

(8.64) 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 2-4-92.

*free product (feet) on 2-4-92 except
TPH-g (ppb) CR-1 (1-28-92)
benzene (ppb)*

⊕ CR-1 + C-5 have the vapor extraction system.

FIGURE 2.

GROUND WATER ELEVATION CONTOUR MAP

2-4-92

FORMER CHEVRON SERVICE
STATION NO. 4816
301 14th STREET
OAKLAND, CALIFORNIA



Table 1
 Summary of Results of Ground Water Sampling
 Former Chevron Service Station No. 9-4816
 301 14th Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-1	06/13/90	30.82	21.97	---	8.85	26000	2800	5100	400	2600	NA
C-1	10/30/90	30.82	21.72	---	9.10	67000	6700	8700	900	5000	NA
C-1	01/04/91	30.82	21.84	---	8.98	---	---	---	---	---	NA
C-1	01/07/91	30.82	21.95	---	8.87	100000	12000	20000	1600	11000	NA
C-1	01/11/91	30.82	21.99	---	8.83	---	---	---	---	---	NA
C-1	02/15/91	30.82	22.12	---	8.70	---	---	---	---	---	NA
C-1	05/02/91	30.82	22.06	---	8.76	59000	5600	7700	700	5200	SAL
C-1	05/30/91	30.82	22.04	---	8.78	---	---	---	---	---	NA
C-1	06/13/91	30.82	21.80	---	9.02	---	---	---	---	---	NA
C-1	07/12/91	30.82	22.01	---	8.81	---	---	---	---	---	NA
C-1	08/07/91	30.82	---	---	---	7900	2000	150	240	330	SAL
C-1	09/24/91	30.82	---	---	---	---	---	---	---	---	NA
C-1	10/18/91	30.87 ***	22.42	---	8.45	---	---	---	---	---	NA
C-1	11/05/91	30.87	22.36	---	8.51	8700	1500	1200	150	580	SAL
C-1	01/06/92	30.87	22.34	---	8.53	---	---	---	---	---	NA
C-1	01/16/92	30.87	22.28	0.03	8.61	---	---	---	---	---	NA
C-1	01/22/92	30.87	22.43	0.09	8.51	---	---	---	---	---	NA
C-1	01/28/92	30.87	22.28	0.02	8.61	---	---	---	---	---	NA
C-1	02/04/92	30.87	22.24	0.01	8.64 ✓	---	---	---	---	---	NA

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WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-2	06/13/90	30.91	22.08	---	8.83	15000	1100	1900	260	1700	NA
C-2	10/30/90	30.91	21.81	---	9.10	13000	2800	1900	240	1000	NA
C-2	01/04/91	30.91	21.90	---	9.01	---	---	---	---	---	NA
C-2	01/07/91	30.91	22.03	---	8.88	15000	3400	2500	340	1400	NA
C-2	01/11/91	30.91	22.13	---	8.78	---	---	---	---	---	NA
C-2	02/15/91	30.91	22.36	---	8.55	---	---	---	---	---	NA
C-2	05/02/91	30.91	22.44	---	8.47	19000	4500	3200	660	2900	SAL
C-2D	05/02/91	30.91	22.44	---	8.47	21000	3200	2200	410	2000	SAL
C-2	05/30/91	30.91	22.44	---	8.47	---	---	---	---	---	NA
C-2	06/13/91	30.91	---	---	---	---	---	---	---	---	NA
C-2	07/12/91	30.91	22.57	0.01	8.35	---	---	---	---	---	NA
C-2	08/07/91	30.91	---	0.11	---	---	---	---	---	---	NA
C-2	09/24/91	30.91	---	---	---	---	---	---	---	---	NA
C-2	10/18/91	30.72 ***	22.34	0.07	8.44	---	---	---	---	---	NA
C-2	11/05/91	30.72	22.26	0.04	8.49	---	---	---	---	---	NA
C-2	01/06/92	30.72	22.25	---	8.47	---	---	---	---	---	NA
C-2	01/16/92	30.72	22.16	0.01	8.57	---	---	---	---	---	NA
C-2	01/22/92	30.72	22.25	0.02	8.49	---	---	---	---	---	NA
C-2	01/28/92	30.72	22.18	0.01	8.55	---	---	---	---	---	NA
C-2	02/04/92	30.72	22.15	0.01	8.58 ✓	---	---	---	---	---	NA

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Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-3	06/13/90	---	24.75	3.00	---	---	---	---	---	---	NA
C-3	10/30/90	---	23.81	2.50	---	---	---	---	---	---	NA
C-3	01/04/91	---	24.15	2.70	---	---	---	---	---	---	NA
C-3	01/07/91	---	24.13	2.50	---	---	---	---	---	---	NA
C-3	01/11/91	---	24.35	2.66	---	---	---	---	---	---	NA
C-3	02/15/91	---	24.70	2.93	---	---	---	---	---	---	NA
C-3 *	05/02/91	---	---	---	---	---	---	---	---	---	NA
C-3	05/30/91	---	24.08	2.49	---	---	---	---	---	---	NA
C-3	06/13/91	---	---	---	---	---	---	---	---	---	NA
C-3	07/12/91	---	---	---	---	---	---	---	---	---	NA
C-3	08/07/91	---	---	2.64	---	---	---	---	---	---	NA
C-3	09/24/91	---	---	---	---	---	---	---	---	---	NA
C-3	10/18/91	30.79 ***	24.44	2.50	--- #	---	---	---	---	---	NA
C-3	11/05/91	30.79	24.31	2.46	--- #	---	---	---	---	---	NA
C-3	01/06/92	30.79	24.25	2.39	--- #	---	---	---	---	---	NA
C-3	01/16/92	30.79	24.02	2.29	--- #	---	---	---	---	---	NA
C-3	01/22/92	30.79	24.10	2.28	--- #	---	---	---	---	---	NA
C-3	01/28/92	30.79	24.06	2.29	--- #	---	---	---	---	---	NA
C-3	02/04/92	30.79	24.04	2.31	--- #	---	---	---	---	---	NA

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WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-4	06/13/90	31.42	22.73	---	8.69	440	47	47	3	61	NA
C-4	10/30/90	31.42	22.48	---	8.94	210	72	13	1	11	NA
C-4	01/04/91	31.42	22.64	---	8.78	---	---	---	---	---	NA
C-4	01/07/91	31.42	22.74	---	8.68	890	100	130	15	88	NA
C-4	01/11/91	31.42	22.81	---	8.61	---	---	---	---	---	NA
C-4	02/15/91	31.42	22.55	---	8.87	---	---	---	---	---	NA
C-4	05/02/91	31.42	22.54	---	8.88	330	140	11	2	9	SAL
C-4	05/30/91	31.42	22.55	---	8.87	---	---	---	---	---	NA
C-4	06/13/91	31.42	---	---	---	---	---	---	---	---	NA
C-4	07/12/91	31.42	---	---	---	---	---	---	---	---	NA
C-4	08/07/91	31.42	---	---	---	1500	400	79	13	61	SAL
C-4	09/24/91	31.42	---	---	---	---	---	---	---	---	NA
C-4	10/18/91	31.20 ***	22.97	---	8.23	---	---	---	---	---	NA
C-4	11/05/91	31.20	22.90	---	8.30	310	130	11	2.6	6.8	SAL
C-4	01/06/92	31.20	22.84	---	8.36	---	---	---	---	---	NA
C-4	01/16/92	31.20	22.75	---	8.45	---	---	---	---	---	NA
C-4	01/22/92	31.20	22.81	---	8.39	---	---	---	---	---	NA
C-4	01/28/92	31.20	22.77	---	8.43	---	---	---	---	---	NA
C-4	02/04/92	31.20	22.72	---	8.48 ✓	300	100	26	2.4	14	SAL

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 301 14th Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-5	10/30/90	31.25	22.11	---	9.14	20000	2500	3300	320	2200	NA
C-5	01/04/91	31.25	22.55	0.31	---	---	---	---	---	---	NA
C-5	01/07/91	31.25	22.36	0.04	9.26	---	---	---	---	---	NA
C-5	01/11/91	31.25	23.08	0.73	---	---	---	---	---	---	NA
C-5	02/15/91	31.25	24.70	2.74	---	---	---	---	---	---	NA
C-5	05/02/91	31.25	22.02	2.00	---	---	---	---	---	---	NA
C-5	05/30/91	31.25	24.78	2.70	---	---	---	---	---	---	NA
C-5	06/13/91	31.25	24.70	2.77	---	---	---	---	---	---	NA
C-5	07/12/91	31.25	25.10	2.72	---	---	---	---	---	---	NA
C-5	08/07/91	31.25	---	2.69	---	---	---	---	---	---	NA
C-5	09/24/91	31.25	---	---	---	---	---	---	---	---	NA
C-5	10/18/91	30.16 ***	24.71	2.51	---	#	---	---	---	---	NA
C-5	11/05/91	30.16	24.47	2.29	---	#	---	---	---	---	NA
C-5	01/06/92	30.16	24.68	---	---	#	---	---	---	---	NA
C-5	01/16/92	30.16	24.03	1.82	---	#	---	---	---	---	NA
C-5	01/22/92	30.16	24.01	1.67	---	#	---	---	---	---	NA
C-5	01/28/92	30.16	23.79	1.46	---	#	---	---	---	---	NA
C-5	02/04/92	30.16	23.81	1.54	---	#	---	---	---	---	NA

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WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-6	05/02/91	30.41	21.84	---	8.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	05/30/91	30.41	---	---	---	---	---	---	---	---	NA
C-6	07/12/91	30.41	22.86	---	7.55	---	---	---	---	---	NA
C-6 **	08/07/91	30.41	---	---	---	---	---	---	---	---	NA
C-6	09/24/91	30.41	21.88	---	8.53	---	---	---	---	---	NA
C-6	10/18/91	30.41	22.18	---	8.23	---	---	---	---	---	NA
C-6	11/05/91	30.41	22.14	---	8.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	01/06/92	30.41	22.09	---	8.32	---	---	---	---	---	NA
C-6	01/16/92	30.41	22.04	---	8.37	---	---	---	---	---	NA
C-6	01/22/92	30.41	22.04	---	8.37	---	---	---	---	---	NA
C-6	01/28/92	30.41	21.99	---	8.42	---	---	---	---	---	NA
C-6	02/04/92	30.41	21.94	---	8.47	ND<50	ND<0.5	ND<0.5	ND<0.5	0.6	SAL
C-7	05/02/91	30.56	21.81	---	8.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	05/30/91	30.56	---	---	---	---	---	---	---	---	NA
C-7	07/12/91	30.56	22.15	---	8.41	---	---	---	---	---	NA
C-7	08/07/91	30.56	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	09/24/91	30.56	21.53	---	9.03	---	---	---	---	---	NA
C-7	10/18/91	30.56	22.07	---	8.49	---	---	---	---	---	NA
C-7	11/05/91	30.56	22.01	---	8.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	01/06/92	30.56	22.03	---	8.53	---	---	---	---	---	NA
C-7	01/16/92	30.56	21.98	---	8.58	---	---	---	---	---	NA
C-7	01/22/92	30.56	22.05	---	8.51	---	---	---	---	---	NA
C-7	01/28/92	30.56	22.01	---	8.55	---	---	---	---	---	NA
C-7	02/04/92	30.56	21.99	---	8.57	ND<50	ND<0.5	0.8	ND<0.5	0.9	SAL

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WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
C-8	05/02/91	30.12	21.24	---	8.88	5000	ND<0.5	17	140	470	SAL
C-8	05/30/91	30.12	---	---	---	---	---	---	---	---	NA
C-8	07/12/91	30.12	---	---	---	---	---	---	---	---	NA
C-8	08/07/91	30.12	---	---	---	6300	ND<0.5	28	100	120	SAL
C-8	09/24/91	30.12	21.33	---	8.79	---	---	---	---	---	NA
C-8	10/18/91	30.12	21.76	---	8.36	---	---	---	---	---	NA
C-8	11/05/91	30.12	21.70	---	8.42	5100	ND<0.5	20	92	74	SAL
C-8	01/06/92	30.12	21.73	---	8.39	---	---	---	---	---	NA
C-8	01/16/92	30.12	21.63	---	8.49	---	---	---	---	---	NA
C-8	01/22/92	30.12	21.70	---	8.42	---	---	---	---	---	NA
C-8	01/28/92	30.12	21.65	---	8.47	---	---	---	---	---	NA
C-8	02/04/92	30.12	21.62	---	8.50	5300	ND<2.5	2.5	97	61	SAL
C-9	05/02/91	30.15	21.27	---	8.88	ND<50	ND<0.5	ND<0.5	ND<0.5	0.8	SAL
C-9	05/30/91	30.15	---	---	---	---	---	---	---	---	NA
C-9	07/12/91	30.15	21.57	---	8.58	---	---	---	---	---	NA
C-9	08/07/91	30.15	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-9D	08/07/91	30.15	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-9	09/24/91	30.15	21.10	---	9.05	---	---	---	---	---	NA
C-9	10/18/91	30.15	21.67	---	8.48	---	---	---	---	---	NA
C-9	11/05/91	30.15	21.65	---	8.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-9D	11/05/91	30.15	21.65	---	8.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-9	01/06/92	30.15	21.65	---	8.50	---	---	---	---	---	NA
C-9	01/16/92	30.15	21.58	---	8.57	---	---	---	---	---	NA
C-9	01/22/92	30.15	21.65	---	8.50	---	---	---	---	---	NA
C-9	01/28/92	30.15	21.63	---	8.52	---	---	---	---	---	NA
C-9	02/04/92	30.15	21.58	---	8.57	ND<50	ND<0.5	0.7	ND<0.5	0.7	SAL
C-9D	02/04/92	30.15	21.58	---	8.57	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 No. 9-4816
 301 14th Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
CR-1	10/30/90	---	23.81	2.50	---	---	---	---	---	---	NA
CR-1	01/04/91	---	24.08	2.70	---	---	---	---	---	---	NA
CR-1	01/07/91	---	23.30	3.00	---	---	---	---	---	---	NA
CR-1	01/11/91	---	24.24	2.64	---	---	---	---	---	---	NA
CR-1	02/15/91	---	24.72	2.92	---	---	---	---	---	---	NA
CR-1 *	05/02/91	---	---	---	---	---	---	---	---	---	NA
CR-1	05/30/91	---	23.07	2.42	---	---	---	---	---	---	NA
CR-1	06/13/91	---	---	---	---	---	---	---	---	---	NA
CR-1	07/12/91	---	---	---	---	---	---	---	---	---	NA
CR-1	08/07/91	---	---	2.69	---	---	---	---	---	---	NA
CR-1	09/24/91	---	---	---	---	---	---	---	---	---	NA
CR-1	10/18/91	30.17 ***	23.75	2.50	--- #	---	---	---	---	---	NA
CR-1	11/05/91	30.17	23.64	2.43	--- #	---	---	---	---	---	NA
CR-1	01/06/92	30.17	23.57	---	--- #	---	---	---	---	---	NA
CR-1	01/16/92	30.17	23.41	2.30	--- #	---	---	---	---	---	NA
CR-1	01/22/92	30.17	23.44	2.24	--- #	---	---	---	---	---	NA
CR-1	01/28/92	30.17	23.4	2.29	--- #	---	---	---	---	---	NA

Table 1
 Summary of Results of Ground Water Sampling
 Former Chevron Service Station No. 9-4816
 301 14th Street, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	B	T	E	X	LAB
TB	05/02/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	08/07/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	11/05/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	02/04/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	08/07/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	11/05/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	02/04/92	NA	NA	NA	NA	ND<50	ND<0.5	1.1	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
 ND :Not Detected
 TB :Trip Blank
 D :Duplicate

NA :Not Applicable/Not Available
 * :Not monitored or sampled due to onsite excavation work
 ** :Car with flat tire parked over well, could not purge or sample.
 *** :Top of well box elevations resurveyed following excavation activities.
 # :Ground water elevation not computed for wells containing greater than 0.20 feet of free product.

Note: Top of well box and ground water elevations are expressed as feet above mean sea level (NGVD - 1929).
 Free product thickness expressed in feet.

APPENDIX A
OFFICIAL LABORATORY RESULTS
AND
CHAIN OF CUSTODY FORMS



CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12766
CLIENT: Alton Geoscience
CLIENT JOB NO.: 31-0557

DATE RECEIVED: 02/05/92
DATE REPORTED: 02/10/92

Table with columns: Lab Number, Customer Sample Identification, Date Sampled, Date Analyzed. Rows 1-8.

Summary table for Laboratory Number: 12766 (1-5)

ANALYTE LIST table for Laboratory Number 12766 (1-5) with columns for analyte and amounts/limits.

Summary table for Laboratory Number: 12766 (6-8)

ANALYTE LIST table for Laboratory Number 12766 (6-8) with columns for analyte and amounts/limits.



CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 12766

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: 11/29/91

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. Joaquin (for)
Laboratory Director

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

84962

1266 Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number <u>94816</u> Facility Address <u>14th and Harrison, Oakland</u>	Chevron Contact (Name) <u>Nancy Vukelich</u> (SIO) <u>842-9500</u> (Phone)
	Consultant Project Number <u>31-0557</u>	Laboratory Name <u>Superior Analytical</u>
	Consultant Name <u>Alton Geoscience</u> Address <u>1000 Burnett Ave #140</u>	Laboratory Release Number <u>3523000</u>
	Project Contact (Name) <u>John DeGeorge</u> (SIO) <u>682-1582</u> (Fax Number)	Samples Collected by (Name) <u>J. VAIL</u> Collection Date <u>2-4-92</u> Signature <u>[Signature]</u>

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	A = Air C = Composite D = Discrete	Type	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)				
TB	1	2	W	G	0900	HCl	Y	X										Analyze		
RINS	2	2	W	G	1330	HCl	Y	X										Analyze		
C-6	3	2	W	G	1416	HCl	Y	X										Analyze		
C-7	4	2	W	G	1702	HCl	Y	X										Analyze		
C-8	5	2	W	G	1730	HCl	Y	X										Analyze		
C-9	6	1	W	G	1645	HCl	Y	X										Analyze		
C-9D	7	1	W	G	1646	HCl	Y	X										Analyze		
C-4	8	2	W	G	1350	HCl	Y	X										Analyze		

Please Initial: F7
 Samples Stored in ice
 Appropriate containers _____
 Samples preserved _____
 VOA's without headspace _____
 Comments: _____

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>Alton</u>	Date/Time <u>2/05/92</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. <u>5 Days</u> 10 Days As Contracted
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Brenda L. Oli</u>	Organization _____	Date/Time <u>2/05/92 10:55</u>	

COC-3.DWG/03 91/HCH