



Chevron U.S.A. Products Company

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Marketing Department

June 16, 1992

Ms. Jennifer Eberle
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Service Station #9-4816
301 14th Street, Oakland 94612

are these C-5 + CR-1?
yes - N.V. 6-25

Dear Ms. Eberle:

Enclosed we are forwarding the Quarterly Ground Water Monitoring report dated May 8, 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 well C-4 only at a concentration of 26 ppb. Separate-phase hydrocarbons were observed in monitor wells C-1, C-2 and C-3 at measured thicknesses of sheen, sheen, 1.93, 1.54 and 2.29-feet, respectively. Depth to ground water was measured at approximately 20 to 22-feet below grade, and the direction of flow has shifted this quarter to flow towards the west-northwest.

MW-10 -

The additional off-site ground water monitor well has been installed. A report documenting the well installation will be forwarded to you upon receipt. In addition, two (2) additional vapor extraction wells were also installed at this time to increase the efficiency of the soil vapor extraction system.

Chevron will continue to monitor this site and report findings on a quarterly basis and monitor the effectiveness of the soil vapor extraction system.

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. Rich Hiatt, RWQCB
Mr. Tom Berry, Weiss Associates
Mr. R.W. Cosby, 225/1936
Ms B.C. Owen
File (9-4816Q4)

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

May 8, 1992

Ms. Nancy Vukelich
Chevron U.S.A. Products Company
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 May 6, 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 transferred to a 600-gallon, trailer-mounted, steel tank (California Department of Health Services-registered), and delivered as non-hazardous to the Chevron Richmond Terminal for treatment.

Ms. Nancy Vukelich
May 8, 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 February and until manual bailing was terminated on March 19, 1992, approximately 20 gallons of free product, in total, was 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 P. Swain
Staff Scientist



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

wp94816ds

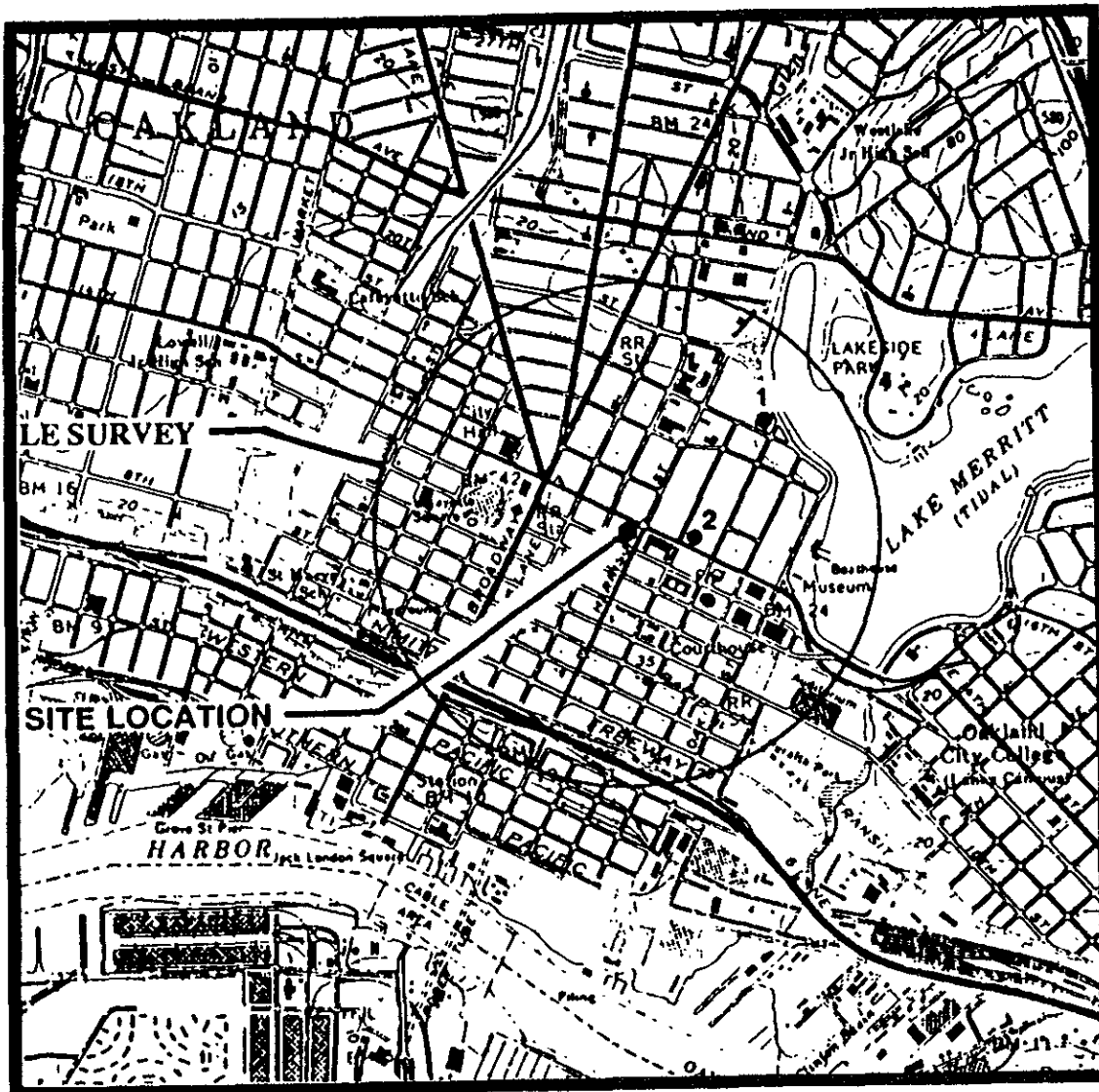


FIGURE 1: VICINITY MAP

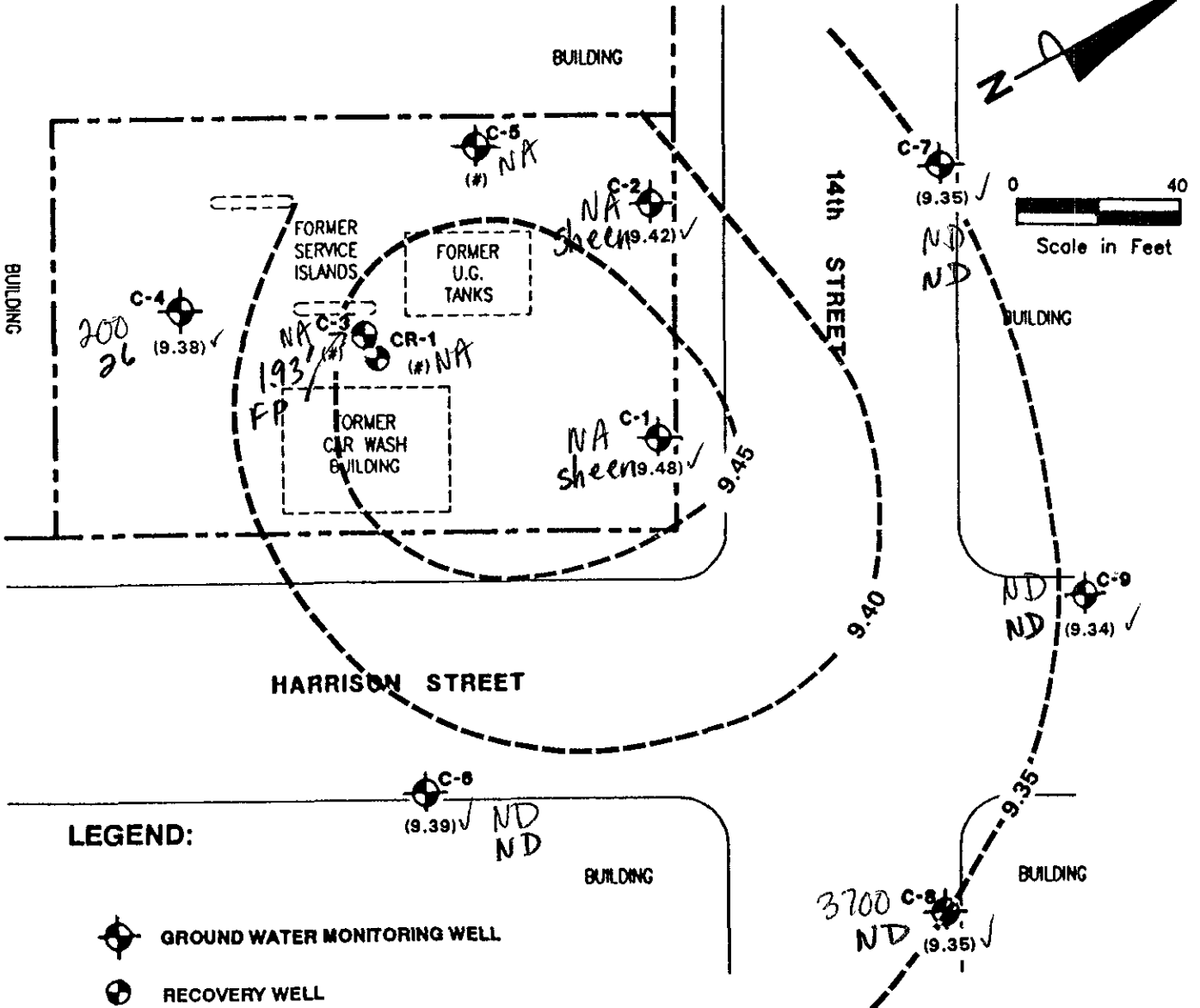
FORMER CHEVRON SERVICE
 STATION NO. 9-4816
 301 14th STREET
 OAKLAND, CALIFORNIA

PROJECT NO. 31-0557



SOURCE: GEOSTRATEGIES, INC.



ALTON GEOSCIENCE
 Pleasanton, California



LEGEND:

-  GROUND WATER MONITORING WELL
-  RECOVERY WELL

(9.48) 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 5-6-92.

NA= not analyzed
TPH-g (ppb)
benz "
Free Product

FIGURE 2.
GROUND WATER ELEVATION CONTOUR MAP

5-6-92

FORMER CHEVRON SERVICE STATION NO. 9-4816
 301 14th STREET
 OAKLAND, CALIFORNIA



ALTON GEOSCIENCE
 Pleasanton, 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
C-1	02/14/92	30.87	22.16	sheen	8.71	---	---	---	---	---	NA
C-1	02/21/92	30.87	22.07	sheen	8.80	---	---	---	---	---	NA
C-1	02/25/92	30.87	21.95	sheen	8.92	---	---	---	---	---	NA
C-1	03/06/92	30.87	21.85	0.00	9.02	---	---	---	---	---	NA
C-1	03/19/92	30.87	20.54	0.00	10.33	---	---	---	---	---	NA
C-1	05/06/92	30.87	21.39	sheen	9.48 ✓	---	---	---	---	---	NA

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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-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
C-2	02/14/92	30.72	22.09	0.00	8.63	---	---	---	---	---	NA
C-2	02/21/92	30.72	22.06	sheen	8.66	---	---	---	---	---	NA
C-2	02/25/92	30.72	21.96	0.00	8.76	---	---	---	---	---	NA
C-2	03/06/92	30.72	21.80	0.00	8.92	---	---	---	---	---	NA
C-2	03/19/92	30.72	21.12	0.00	9.60	---	---	---	---	---	NA
C-2	05/06/92	30.72	21.30	sheen	9.42 ←	---	---	---	---	---	NA

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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-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
C-3	02/14/92	30.79	23.93	2.31	---	#	---	---	---	---	NA
C-3	02/21/92	30.79	24.61	3.05	---	#	---	---	---	---	NA
C-3	02/25/92	30.79	23.69	2.23	---	#	---	---	---	---	NA
C-3	03/06/92	30.79	23.69	2.23	---	#	---	---	---	---	NA
C-3	03/19/92	30.79	22.98	2.26	---	#	---	---	---	---	NA
C-3	05/06/92	30.79	22.74	1.93	---	#	---	---	---	---	NA

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 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-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
C-4	02/14/92	31.20	22.58	---	8.62	---	---	---	---	---	NA
C-4	02/21/92	31.20	22.60	---	8.60	---	---	---	---	---	NA
C-4	02/25/92	31.20	22.50	---	8.70	---	---	---	---	---	NA
C-4	03/06/92	31.20	---	---	---	---	---	---	---	---	NA
C-4	03/19/92	31.20	21.75	---	9.45	---	---	---	---	---	NA
C-4	05/06/92	31.20	21.82	---	9.38	200	26	ND<0.5	1.2	1.4	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-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
C-5	02/14/92	30.16	22.79	1.59	---	#	---	---	---	---	NA
C-5	02/21/92	30.16	24.40	2.22	---	#	---	---	---	---	NA
C-5	02/25/92	30.16	23.25	1.03	---	#	---	---	---	---	NA
C-5	03/06/92	30.16	23.20	1.19	---	#	---	---	---	---	NA
C-5	## 03/19/92	30.16	---	---	---	---	---	---	---	---	NA
C-5	## 05/06/92	30.16	---	---	---	---	---	---	---	---	NA

Table 1
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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-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-6	02/14/92	30.41	21.87	---	8.54	---	---	---	---	---	NA
C-6	02/21/92	30.41	21.83	---	8.58	---	---	---	---	---	NA
C-6	02/25/92	30.41	21.71	---	8.70	---	---	---	---	---	NA
C-6	03/06/92	30.41	21.53	---	8.88	---	---	---	---	---	NA
C-6	03/19/92	30.41	20.92	---	9.49	---	---	---	---	---	NA
C-6	05/06/92	30.41	21.02	---	9.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

Table 1
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 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-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	02/14/92	30.56	21.94	---	8.62	---	---	---	---	---	NA
C-7	02/21/92	30.56	21.94	---	8.62	---	---	---	---	---	NA
C-7	02/25/92	30.56	21.82	---	8.74	---	---	---	---	---	NA
C-7	03/06/92	30.56	21.65	---	8.91	---	---	---	---	---	NA
C-7	03/19/92	30.56	20.92	---	9.64	---	---	---	---	---	NA
C-7	05/06/92	30.56	21.21	---	9.35	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
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-8	02/14/92	30.12	21.53	---	8.59	---	---	---	---	---	NA
C-8	02/21/92	30.12	21.51	---	8.61	---	---	---	---	---	NA
C-8	02/25/92	30.12	21.39	---	8.73	---	---	---	---	---	NA
C-8	03/06/92	30.12	21.21	---	8.91	---	---	---	---	---	NA
C-8	03/19/92	30.12	20.57	---	9.55	---	---	---	---	---	NA
C-8	05/06/92	30.12	20.77	---	9.35	3700	ND<0.5	29	110	130	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
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
C-9	02/14/92	30.15	21.54	---	8.61	---	---	---	---	---	NA
C-9	02/21/92	30.15	21.52	---	8.63	---	---	---	---	---	NA
C-9	02/25/92	30.15	21.39	---	8.76	---	---	---	---	---	NA
C-9	03/06/92	30.15	21.21	---	8.94	---	---	---	---	---	NA
C-9	03/19/92	30.15	20.47	---	9.68	---	---	---	---	---	NA
C-9	05/06/92	30.15	20.81	---	9.34	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	23.40	2.29	---	#	---	---	---	---	NA
CR-1	02/14/92	30.17	23.31	2.34	---	#	---	---	---	---	NA
CR-1	02/21/92	30.17	24.10	3.19	---	#	---	---	---	---	NA
CR-1	02/25/92	30.17	23.15	1.03	---	#	---	---	---	---	NA
CR-1	## 03/06/92	30.17	---	---	---	---	---	---	---	---	NA
CR-1	## 03/19/92	30.17	---	---	---	---	---	---	---	---	NA
CR-1	## 05/06/92	30.17	---	---	---	---	---	---	---	---	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
TB	05/06/92	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
RINSATE	02/04/92	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
 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.
 ## :Unable to access. Remediation equipment in monitoring well.
 ! :Unable to access. Standing water over well.

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.
 Weekly product bailing discontinued on 3-19-92 by Nancy Vukelich of Chevron USA Products Company.

APPENDIX A
OFFICIAL LABORATORY RESULTS
AND
CHAIN OF CUSTODY FORMS



Alton Geoscience
Attn: DALE SWAIN

Project 31-0557
Reported 05/14/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
85672- 1	TB-LB	05/06/92	05/11/92 Water
85672- 2	RIN	05/06/92	05/11/92 Water
85672- 3	C-6	05/06/92	05/12/92 Water
85672- 4	C-7	05/06/92	05/12/92 Water
85672- 5	C-9	05/06/92	05/12/92 Water
85672- 6	C-8	05/06/92	05/12/92 Water
85672- 7	C-4	05/06/92	05/12/92 Water

RESULTS OF ANALYSIS

Laboratory Number: 85672- 1 85672- 2 85672- 3 85672- 4 85672- 5

Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	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	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 85672- 6 85672- 7

Gasoline:	3700	200
Benzene:	ND<0.5	26
Toluene:	29	ND<0.5
Ethyl Benzene:	110	1.2
Xylenes:	130	1.4
Concentration:	ug/L	ug/L

MAY 19 1992



Superior Precision Analytical, Inc.

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

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

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 1
QA/QC INFORMATION
SET: 85672

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

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	105/105	0	70-130
Benzene:	200 ng	96/103	7	70-130
Toluene:	200 ng	100/106	5	70-130
Ethyl Benzene:	200 ng	105/108	3	70-130
Xylenes:	200 ng	105/109	3	70-130

Richard Srna, Ph.D.

Delmina Mangulig (for)
Laboratory Director

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

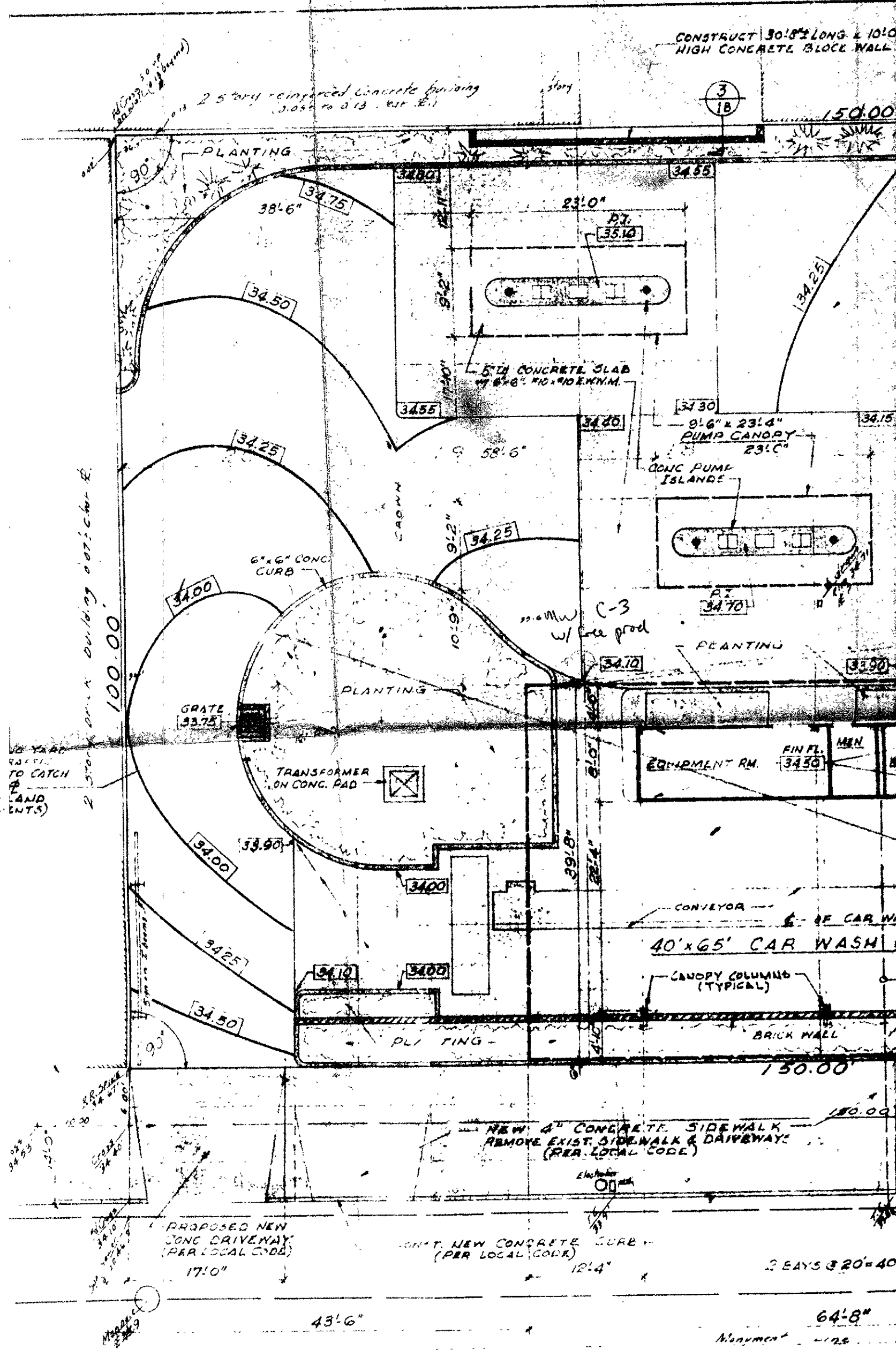
856

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>301 14th St, Oakland</u>	Chevron Contact (Name) <u>Nancy Vukelich</u> 19 1907 (Phone) <u>(510) 842-9500</u>
	Consultant Project Number <u>31-0557</u> Consultant Name <u>ALTON GEOSCIENCE</u> Address <u>5870 Stoneridge Dr, #6, Pleasanton</u>	Laboratory Name <u>Superior Analytical</u> Laboratory Release Number <u>3523600</u>
	Project Contact (Name) <u>Dale Swain</u> (Phone) <u>(510) 734-8134</u> (Fax Number) <u>(510) 734-8420</u>	Samples Collected by (Name) <u>Jon VAIL</u> Collection Date <u>5-6-92</u>
	Signature <u>[Signature]</u>	

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)						
TB-LB	1	1	W	G	0620	HCl	Y	X													<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Do Not Bill Chevron For TB-LB </div> Analyze ↓
RINS	2	2	W	G	1120	HCl	Y	X													
C-6	3	2	W	G	1121	HCl	Y	X													
C-7	4	2	W	G	1206	HCl	Y	X													
C-9	5	2	W	G	1234	HCl	Y	X													
C-8	6	2	W	G	1454	HCl	Y	X													
C-4	7	2	W	G	1319	HCl	Y	X													

Relinquished By (Signature) <u>[Signature]</u> Organization <u>ALTON</u> Date/Time <u>5/7/92</u>	Received By (Signature) <u>[Signature]</u> Organization <u>Express</u> Date/Time <u>5/7/92</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days <input checked="" type="radio"/> 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u> Organization <u>Express</u> Date/Time <u>5/7/92</u>	Received For Laboratory By (Signature) <u>[Signature]</u> Date/Time <u>5-7-92</u>	



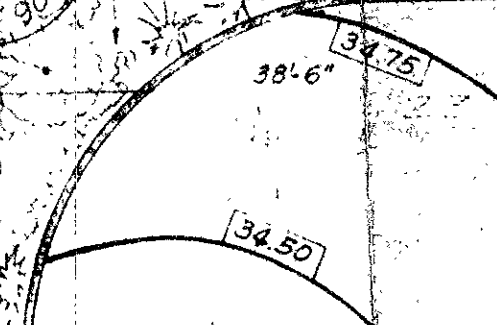
CONSTRUCT 30'-5" LONG & 10'-0" HIGH CONCRETE BLOCK WALL

2 story reinforced concrete building (3.05' to 3.13' est. E.I.)

3
18

150.00

PLANTING

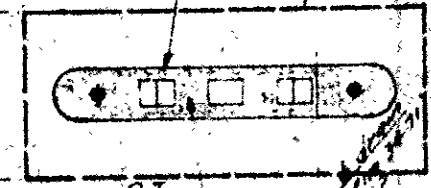


GRATE [33.75]

TRANSFORMER ON CONG. PAD

9'-6" x 23'-4" PUMP CANOPY

CONC PUMP ISLANDS



EQUIPMENT RM. FIN FL. [34.50]

MEN

40' x 65' CAR WASH

CANOPY COLUMNS (TYPICAL)

BRICK WALL

NEW 4" CONCRETE SIDEWALK REMOVE EXIST. SIDEWALK & DRIVEWAYS (PER LOCAL CODE)

PROPOSED NEW CONG DRIVEWAY (PER LOCAL CODE) 17'-0"

CONC. NEW CONCRETE CURB (PER LOCAL CODE) 12'-4"

2 BAYS @ 20' = 40'

43'-6"

64'-8"

HARRISON (80.6)

PLOT & CAP

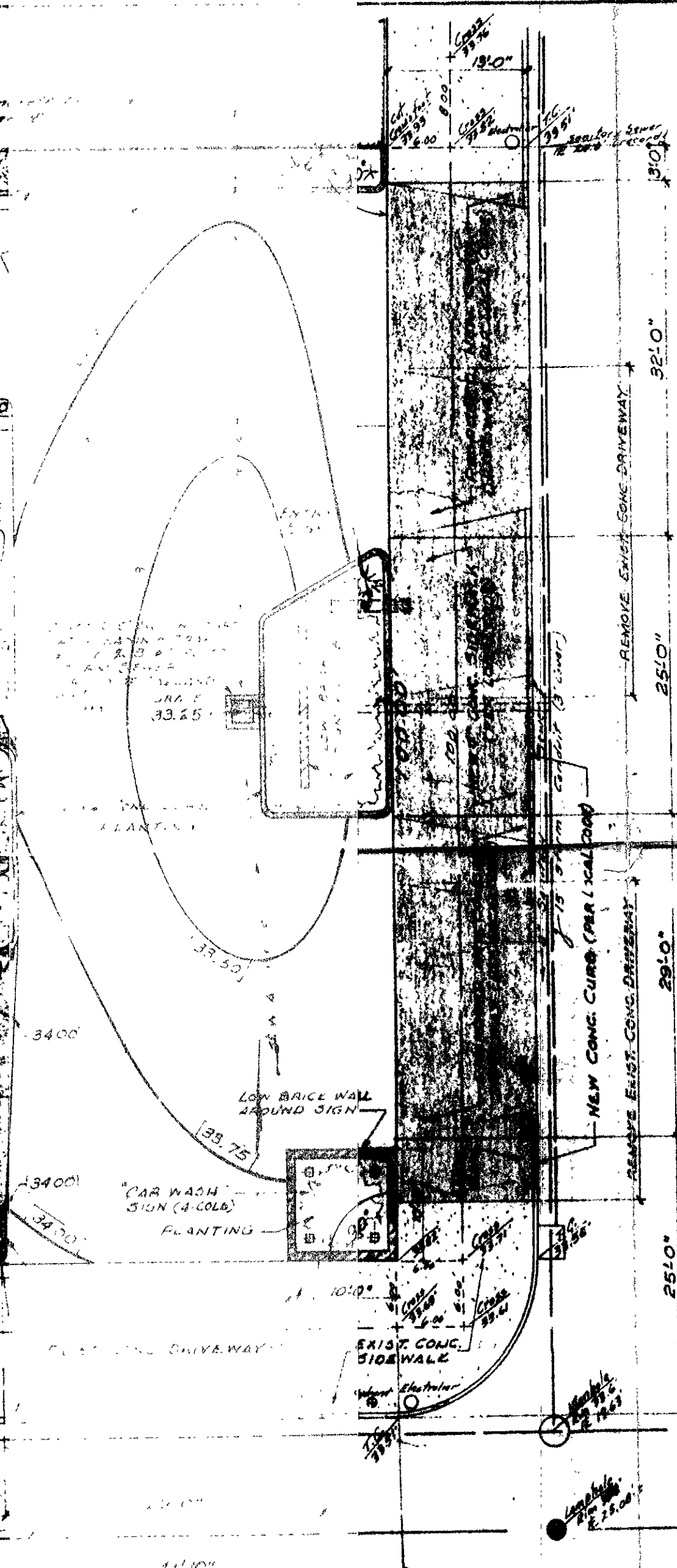
GENERAL NOTES

1. ALL ASPHALTIC CONCRETE YARD PAVING TO 2" A.C. OVER 4" U.R.B.
2. PROVIDE WEED KILLER OVER ENTIRE YARD AREA PRIOR TO INSTALLING A.C. PAVING.
3. PROVIDE SPRAYED ON SEALER COAT OVER ALL A.C. YARD PAVING.

LEGEND

EXISTING GRADES SHOWN THUS 35.2'

FINISH GRADES SHOWN THUS 33.50



14TH STREET (80')

EET

LAN

SCALE 1/8" = 1'-0"



55-20-111