Chevron U.S.A. Inc.
2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

91 MAY 21 AM 8:25

Marketing Operations

R. B. Bellinger
Manager, Operations
S. L. Patterson
Area, Manager, Operations
C. G. Trimbach
Manager, Engineering

May 20, 1991

Ms. Susan Hugo
Alameda County
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

RECEIVED
MAY 23 1991
A.C.W.D.
ENGINEERING DEPT.

Re: Chevron Service Station #9-0338
5500 Telegraph Avenue/55th
Oakland, CA 94609

Dear Ms. Hugo:

Enclosed we are forwarding the results of the Quarterly Groundwater Monitoring and Sampling Report dated May 17, 1991, conducted by our consultant Alton Geoscience at the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. All monitor wells reported Benzene concentrations below the maximum contaminant level for drinking water standards.

Chevron has been monitoring and sampling the groundwater at this site since November, 1989. As a result of the groundwater information collected over the last eighteen (18) months, Chevron feels that continued monitoring on a quarterly basis will not contribute any significant new information but rather will merely generate a large quantity of redundant numbers. Chevron feels that a modification to the sampling frequency is warranted at this time and has instructed its consultant to implement the monitoring and reporting program defined below:

*Measure the groundwater elevations in all wells on an annual basis during the second quarter of each year.
*Obtain groundwater samples for laboratory analysis from all wells on an annual basis during the second quarter of each year.
*Submit a report to the appropriate regulatory agencies on an annual basis to document all groundwater monitoring activity since the previous event.

Chevron will initiate this sampling frequency modification effective immediately under self direction unless otherwise informed by your office.

If you have any questions or comments please do not hesitate to contact me at (415) 842-9581.

Very truly yours,
CHEVRON U.S.A. INC.

Nancy Vukelich
Environmental Engineer

Enclosure

cc: Mr. Lester Feldman, RWQCB-Bay Area
Mr. S.A. Willar
File (#9-0338Q5 Listing)

ALTON GEOSCIENCE
THE RESULTS TEAM

May 17, 1991

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

30-261

Subject: Quarterly Ground Water Monitoring Report
Chevron Station No. 9-0338
5500 Telegraph Avenue
Oakland, California

Dear Ms. Vukelich:

In accordance with our agreement, Alton Geoscience, Inc. transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-0338, located at 5500 Telegraph Avenue, Oakland, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on April 10, 1991, 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, the depth to ground water in each well was measured from the top of casing to the nearest 0.01 foot using an electronic interface probe. Ground water samples were also collected at this time and checked for the presence of liquid-phase hydrocarbons or sheen.

Ground water analytical samples were collected after more than 3 casing volumes of ground water were purged from each well. Each sample was collected using a clean bailer (dedicated for each well), and then transferred to 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 in a 600-gallon, trailer-mounted, steel tank (California Department of Health Services-registered), manifested, and hauled to a proper facility for disposal.

SAMPLING AND ANALYTICAL RESULTS

The results of the monitoring and laboratory analyses of the ground water samples for this quarter, as well as the results of previous quarterly monitoring and sampling events, are

1000 Burnett Avenue, Suite 140
Concord, California 94520
(415) 682-1582 • FAX (415) 682-8921

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 flow direction at this site are presented in Figure 2.

No liquid-phase hydrocarbons or sheen were observed in any of the ground water samples. The water sampling survey forms presenting the results of the field activities and observations, as well as the official laboratory reports and chain of custody records are included in Appendix A.

Please call if you have any questions concerning this report.

Sincerely,

ALTON GEOSCIENCE, INC.

Stephan Rosen
Supervising Geologist

Al Sevilla, R.C.E. 26392
Regional Manager

Enclosure

pw.90338
vct

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station # 9-0338
5500 Telegraph Avenue, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	TPH-D	TOG	B	T	E	X	TTL	LAB
C-1	11/21/89	123.88	10.75	113.13	ND<500	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
C-1	03/20/90	123.88	9.93	113.95	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
C-1	06/27/90	123.88	9.64	114.24	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-1D	06/27/90	123.88	9.64	114.24	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-1*	10/12/90	123.88	10.91	112.97	---	---	---	---	---	---	---	---	SAL
C-1D	10/12/90	123.88	10.91	112.97	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
C-1	12/20/90	123.88	9.76	114.12	75	---	---	ND<0.5	0.9	0.8	3	---	SAL
C-1D	12/20/90	123.88	9.76	114.12	73	---	---	ND<0.5	0.6	0.7	2	---	SAL
C-1	04/10/91	123.88	8.76	115.12	ND<50	---	---	0.7	1.2	ND<0.5	1.0	---	SAL
C-1D	04/10/91	123.88	8.76	115.12	ND<50	---	---	0.9	1.5	ND<0.5	1.5	---	SAL
C-2	11/21/89	124.92	10.75	114.17	ND<500	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
C-2	03/20/90	124.92	9.44	115.48	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
C-2	06/27/90	124.92	9.55	115.37	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-2	10/12/90	124.92	10.89	114.03	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
C-2	12/20/90	124.92	9.65	115.27	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
C-2	04/10/91	124.92	8.04	116.88	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
C-3	11/21/89	125.64	11.28	114.36	ND<500	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
C-3	01/12/90	125.64	---	---	---	ND<1000	ND<5000	---	---	---	---	---	NA
C-3	03/20/90	125.64	10.39	115.25	ND<50	ND<50	ND<5000	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
C-3	06/27/90	125.64	10.32	115.32	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-3	10/12/90	125.64	11.28	114.36	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
C-3	12/20/90	125.64	10.25	115.39	54	---	---	ND<0.5	ND<0.5	ND<0.5	0.7	---	SAL
C-3	04/10/91	125.64	8.79	116.85	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	03/20/90	NA	NA	NA	ND<50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	NA
TB	06/27/90	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB*	10/12/90	NA	NA	NA	---	---	---	---	---	---	---	---	SAL
TB	12/20/90	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	04/10/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	06/27/90	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE*	10/12/90	NA	NA	NA	---	---	---	---	---	---	---	---	SAL
RINSATE	12/20/90	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	04/10/91	NA	NA	NA	ND<50	---	---	ND<0.5	0.6	ND<0.5	ND<0.5	---	SAL

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station # 9-0338
5500 Telegraph Avenue, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CADMIUM	ZINC	LEAD	CHROMIUM	DIBROMIDE	ALUMINUM	BERYLLIUM	ARSENIC	BARIUM	CALCIUM	COBALT	COPPER	LAB
C-1	11/21/89	---	---	---	---	ND<0.05	---	---	---	---	---	---	---	NA
C-1	03/20/90	---	0.18	0.016	0.28	ND<0.005	45	---	14	25	91	3	66	NA
C-1	06/27/90	ND<0.01	0.03	---	---	---	---	---	---	---	---	---	---	SAL
C-1D	06/27/90	ND<0.01	0.03	---		---	---	---	---	---	---	---	---	SAL
C-1*	10/12/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-1D	10/12/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-1	12/20/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-1D	12/20/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-1	04/10/91	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-1D	04/10/91	---	---	---	---	---	---	---	---	---	---	---	---	SAL
					0									
C-2	11/21/89	---	---	---	---	ND<0.05	---	---	---	---	---	---	---	NA
C-2	03/20/90	---	1.0	0.12	0.82	ND<0.005	270	---	11	2.0	100	20	38	NA
C-2	06/27/90	ND<0.01	0	---	---	---	---	---	---	---	---	---	---	SAL
C-2	10/12/90	---	---	---		---	---	---	---	---	---	---	---	SAL
C-2	12/20/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-2	04/10/91	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-3	11/21/89	20.	1000.	ND<500.	500.	ND<0.05	---	---	---	---	---	---	---	NA
C-3	01/12/90	---	---	---	---	---	---	---	---	---	---	---	---	NA
C-3	03/20/90	ND<0.005	1.1	0.12	1.0	---	310	2	12	2.5	85	21	43	NA
C-3	06/27/90	ND<0.01	0.3	---	---	---	---	---	---	---	---	---	---	SAL
C-3	10/12/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-3	12/20/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
C-3	04/10/91	---	---	---	---	---	---	---	---	---	---	---	---	SAL
TB	03/20/90	---	---	---	---	---	---	---	---	---	---	---	---	NA
TB	06/27/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
TB*	10/12/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
TB	12/20/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
TB	04/10/91	---	---	---	---	---	---	---	---	---	---	---	---	SAL
RINSATE	06/27/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
RINSATE*	10/12/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
RINSATE	12/20/90	---	---	---	---	---	---	---	---	---	---	---	---	SAL
RINSATE	04/10/91	---	---	---	---	---	---	---	---	---	---	---	---	SAL

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station # 9-0338
5500 Telegraph Avenue, Oakland, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	IRON	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SODIUM	THALLIUM	VANADIUM	LAB
C-1	11/21/89	---	---	---	---	---	---	---	---	---	NA
C-1	03/20/90	84	73	81	---	50	8.7	64	5	14	NA
C-1	06/27/90	---	---	---	---	---	---	---	---	---	SAL
C-1D	06/27/90	---	---	---	---	---	---	---	---	---	SAL
C-1*	10/12/90	---	---	---	---	---	---	---	---	---	SAL
C-1D	10/12/90	---	---	---	---	---	---	---	---	---	SAL
C-1	12/20/90	---	---	---	---	---	---	---	---	---	SAL
C-1	04/10/91	---	---	---	---	---	---	---	---	---	SAL
C-1D	04/10/91	---	---	---	---	---	---	---	---	---	SAL
C-2	11/21/89	---	---	---	---	---	---	---	---	---	NA
C-2	03/20/90	450	130	9.5	1.0	1.4	29	47	---	70	NA
C-2	06/27/90	---	---	---	---	---	---	---	---	---	SAL
C-2	10/12/90	---	---	---	---	---	---	---	---	---	SAL
C-2	12/20/90	---	---	---	---	---	---	---	---	---	SAL
C-2	04/10/91	---	---	---	---	---	---	---	---	---	SAL
C-3	11/21/89	---	---	---	---	---	---	---	---	---	NA
C-3	01/12/90	---	---	---	---	---	---	---	---	---	NA
C-3	03/20/90	530	130	9.2	1.0	1.7	32	49	---	79	NA
C-3	06/27/90	---	---	---	---	---	---	---	---	---	SAL
C-3	10/12/90	---	---	---	---	---	---	---	---	---	SAL
C-3	12/20/90	---	---	---	---	---	---	---	---	---	SAL
C-3	04/10/91	---	---	---	---	---	---	---	---	---	SAL

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station # 9-0338
5500 Telegraph Avenue, Oakland, California

Concentrations in parts per billion (ppb)

EXPLANATION OF ABBREVIATIONS:

TPH-G	:Total Petroleum Hydrocarbons as Gasoline (EPA method 8015 modified)	---	:Not Analyzed/Not Measured
		NA	:Not Applicable/Not Available
B	:Benzene (EPA method 8020 or 8240)	ND	:Not Detected
T	:Toluene (EPA method 8020 or 8240)	TB	:Trip Blank
E	:Ethylbenzene (EPA method 8020 or 8240)	D	:Duplicate
X	:Xylenes (EPA method 8020 or 8240)	SAL	:Superior Analytical Laboratory
		*	:Samples broken by lab. Unable to analyze.

Note: Top of casing and Ground Water Elevations are expressed as feet above mean sea level (NGVD-1929).

L1CM

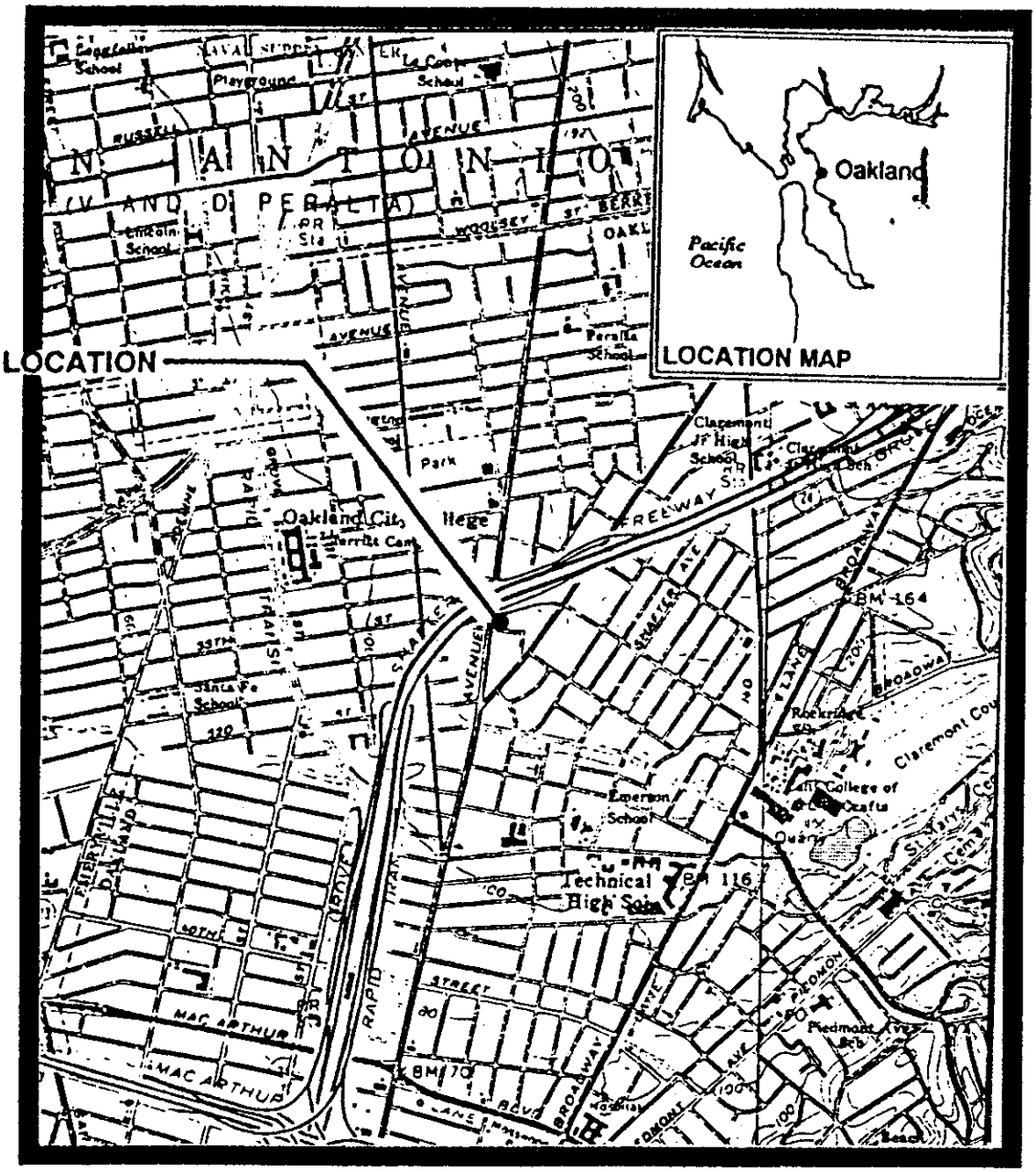


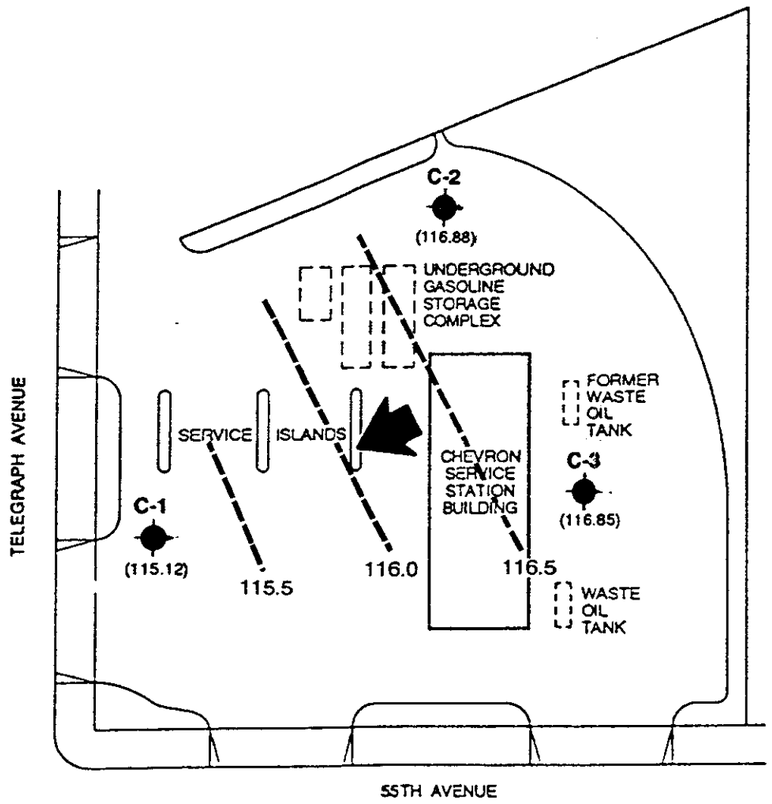
FIGURE 1. SITE VICINITY MAP

CHEVRON U.S.A.
CHEVRON SERVICE STATION NO. 9-0338
5500 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 30-261

SOURCE: GEOSTRATEGIES INC.

ALTON GEOSCIENCE
1000 Burnett Ave., Ste. 140
Concord, CA 94520



SOURCE: GEOSTRATEGIES INC.

PROJECT NO. 30-261

N

0 40

APPROXIMATE SCALE IN FEET

LEGEND:

- GROUND WATER MONITORING WELL
- (115.12) GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL [NGVD-1929])
- GROUND WATER ELEVATION CONTOUR
- GENERAL DIRECTION OF GROUND WATER FLOW

Note:
Contour lines are interpretive based on fluid levels in monitoring wells measured on 04/10/91.

FIGURE 2. GROUND WATER ELEVATION CONTOUR MAP

CHEVRON SERVICE STATION NO. 9 - 0338
5500 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA,

ALTON GEOSCIENCE
1000 Burnett Ave., Ste. 140
Concord, CA 94520

APPENDIX A

FIELD SAMPLE FORMS,

OFFICIAL LABORATORY RESULTS, AND

CHAIN OF CUSTODY FORMS

ALTA GEOSCIENCE, INC
1170 Burnett Ave., Ste. S
Concord, CA 94520

JOB NUMBER 300261 TECHNICIAN Dennis

JOB LOCATION 90338 DATE 4-10-91

PUMPOUT ☒ YES ☐ NO | DATE OF LAST PUMPOUT: 12-20-90 | WEATHER: Cool Sunny TIME: 11:45

WELL #	HOLD DEPTH TO WATER	CUT DEPTH TO PRODUCT	LEVEL PROD. THICKNESS (FT)	TOTAL DEPTH	DEPTH TO PUMP	COMMENTS (Notes, conditions, etc.)
C-2	8.04	1:05		28.22	20.18	
C-3	8.79	1:25		27.98	19.19	
C-1	8.76	2:10		29.52	20.76	
T.B.		12:45				
Rinsate		1:00				
C-1D		2:15				

2"

ALTON GEOSCIENCE, INC.
Water Sampling Field Survey

WELL # C-1 PROJECT# 30026.1 LOCATION Oakland DATE 4-10-91

SAMPLING TEAM Dennis SAMPLING METHOD: BAILER X PUMP ___

DECONTAMINATION METHOD: TRIPLE RINSE W/TSP AND DEIONISED WATER X
STEAM CLEAN ___

WELL DATA:

DEPTH TO WATER 8.16 ft

TOTAL DEPTH 29.52 ft

HT. WATER COL 20.16 ft

CONVERSION	
diam	gal/ft
2 in	X0.16
3 in	X0.36
4 in	X0.65
6 in	X1.44

Volume of Water Column 3.36 gal

Volumes to Purge X 3 Vol

Total Volume to Purge 10.08 gal

CHEMICAL DATA:

T (F)	SC/umhos	pH	Time	Comments	Volume (gal)
69.1	827	7.82	1:42	Clear	2
69.6	8.17	7.78	1:46	"	4
68.1	9.80	7.76	1:51	"	6
68.8	9.50	7.75	1:56	Clear -> Cloudy, gray	8
68.6	10.14	7.77	2:02	" "	10

ACTUAL VOLUME PURGED 10.25 gal

COMMENTS: Slow producer! See times.

ALTON GEOSCIENCE, INC.
Water Sampling Field Survey

WELL # C-2 PROJECT# 30026! LOCATION Oakland DATE 4-10-91

SAMPLING TEAM Dennis SAMPLING METHOD: BAILER X PUMP ___

DECONTAMINATION METHOD: TRIPLE RINSE W/TSP AND DEIONIZED WATER X
STEAM CLEAN ___

WELL DATA:

DEPTH TO WATER 8.04 ft

TOTAL DEPTH 28.22 ft

HT. WATER COL 20.18 ft

CONVERSION	
diam	gal/ft
2 in	X0.16
3 in	X0.36
4 in	X0.65
6 in	X1.44

Volume of Water Column 3.36 gal

Volumes to Purge X 3 Vol

Total Volume to Purge 10.08 gal

CHEMICAL DATA:

T (F)	SC/umhos	pH	Time	Comments	Volume (gal)
78.3	9.22	7.76	12:49	Clear	2
73.0	8.62	7.79	12:50	Cloudy, lt. gray	4
69.8	8.19	7.78	12:52	" "	6
67.6	7.99	7.79	12:55	" "	8
67.6	7.92	7.74	12:58	Clear	10

ACTUAL VOLUME PURGED 1025 /gal

COMMENTS:

ALTON GEOSCIENCE, INC.
Water Sampling Field Survey

WELL # C-3 PROJECT# 300261 LOCATION Oakland DATE 4-10-91

SAMPLING TEAM Dennis SAMPLING METHOD: BAILER X PUMP ___

DECONTAMINATION METHOD: TRIPLE RINSE W/TSP AND DEIONISED WATER X
STEAM CLEAN ___

WELL DATA:

DEPTH TO WATER 8.79 ft

TOTAL DEPTH 27.98 ft

HT. WATER COL 19.19 ft

CONVERSION	
diam	gal/ft
2 in	X0.16
3 in	X0.36
4 in	X0.65
6 in	X1.44

Volume of Water Column 3.20 gal

Volumes to Purge X 3 Vol

Total Volume to Purge 9.60 gal

CHEMICAL DATA:

T (F)	SC/umhos	pH	Time	Comments	Volume (gal)
72.4	6.30	7.82	1:10	Clear	2
69.8	5.76	7.80	1:12	Cloudy, lt. gray	4
68.6	5.56	7.79	1:14	" "	6
68.4	5.52	7.78	1:16	" "	8
68.5	5.41	7.77	1:18	" "	10

ACTUAL VOLUME PURGED 10.25 /gal

COMMENTS:

APR 2 2 1991

SUPERIOR ANALYTICAL LABORATORIES, INC.

825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512

DOHS #319
DOHS #220

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 82846
CLIENT: Alton Geoscience
CLIENT JOB NO.: 300261

DATE RECEIVED: 04/11/91
DATE REPORTED: 04/18/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
82846- 1	0491011	04/10/91	04/16/91
82846- 2	0491021	04/10/91	04/16/91
82846- 3	0491031	04/10/91	04/17/91
82846- 4	0491013	04/10/91	04/16/91
82846- 5	0491002	04/10/91	04/16/91
82846- 6	0491004	04/10/91	04/17/91

Laboratory Number:	82846 1	82846 2	82846 3	82846 4	82846 5
ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	ND<50	ND<50	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	0.7	ND<0.5	ND<0.5	0.9	ND<0.5
TOLUENE:	1.2	ND<0.5	ND<0.5	1.5	ND<0.5
ETHYL BENZENE:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
XYLENES:	1.0	ND<0.5	ND<0.5	1.5	ND<0.5

Laboratory Number:	82846 6
ANALYTE LIST	Amounts/Quantitation Limits (ug/L)
OIL AND GREASE:	NA
TPH/GASOLINE RANGE:	ND<50
TPH/DIESEL RANGE:	NA
BENZENE:	ND<0.5
TOLUENE:	0.6
ETHYL BENZENE:	ND<0.5
XYLENES:	ND<0.5

APR 2 2 1991

SUPERIOR ANALYTICAL LABORATORIES, INC.

825 ARNOLD, STE. 114 • MARTINEZ, CALIFORNIA 94553 • (415) 229-1512

DOHS #319
DOHS #220

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

QA/QC INFORMATION
SET: 82846

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: 03/28/91

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/l
Standard Reference: 03/16/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	03/28/91	200 ng	105	3	70-130
Benzene	03/16/91	200 ng	94	4	70-130
Toluene	03/16/91	200 ng	96	3	70-130
Ethyl Benzene	03/16/91	200 ng	95	4	70-130
Total Xylene	03/16/91	200 ng	99	4	70-130

Richard Srna, Ph.D.
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

APR 22 1991

82846 Chain-of-Custody-Record

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

Chevron Facility Number: #90338
Facility Address: Oakland
Consultant Project Number: #300261
Consultant Name: Alton Geoscience
Address: 1000 Burnett Ave #140
Project Contact (Name): Stephan Rosen
(Phone) 415-682-1582 (Fax Number) 415-682-8921

Chevron Contact (Name): Nancy
(Phone) 415-842-9625
Laboratory Name: Sequoia
Laboratory Release Number: 2646690
Samples Collected by (Name): Dennis Vernon
Collection Date: 4-10-91
Signature: Dennis Vernon

Sample Number	Number of Containers	Matrix W = Water S = Soil A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservative	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Chlorinated HC (8010)	Non Chlorinated HC (8020)	Total Lead (AA)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	Remarks
0491011	3	W	G		HCL	X	X							3X40mL
0491021	3						X							
0491031	3						X							
0491013	3						X							
0491002	2						X							2X40mL
0491004	2						X							2X40mL

Please Initial: DD
Samples Stored in ice: yes
Appropriate containers: yes
Samples preserved: yes
VOA's without headspace: yes
Comments: OK

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Dennis Vernon	Alton Geoscience	4/11/91	[signature]		4/11/91 1700
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-1.DWG/11 RO/NCH