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

Marketing Operations

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

April 25, 1991

91 APR 25 P1:19:26

Ms. Pamela Evans
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Service Station #9-0504
15900 Hesperian Boulevard, San Lorenzo

Dear Ms. Evans:

Enclosed we are forwarding the Site Update Report dated April 19, 1991, conducted by our consultant GeoStrategies, Inc. for the above referenced site. As indicated in the report, groundwater samples collected were analyzed for total petroleum hydrocarbon as gasoline (TPH-G) and BTEX. Benzene concentrations were detected at levels ranging from ND to 220 ppb. Phase-separated material was observed in Well C-2 at a measured thickness of .01-feet. A sample was collected from this well and analyzed for the same constituents. Benzene was detected at a concentration of 4700 ppb. This analyses was performed to assure that the sheen was attributable to gasoline and that prior reporting of the phase-separated material was not ambiguous.

We are currently evaluating the groundwater data collected to date. A work plan will be prepared presenting our proposal for the appropriate remedial action.

Chevron will continue to weekly monitor and perform quarterly chemical analysis on all monitoring wells and report findings on a quarterly basis.

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. Rich Hiett, RWQCB-Bay Area
Ms. Bette Brummett-Owen
File (9-0504Q2 Listing)

Mr. Bruce E. Prigoff, Esq.
Steefel, Levitt & Weiss
One Embarcadero Center, 29th Floor
San Francisco, CA 94111

GeoStrategies Inc.

SITE UPDATE

Chevron Service Station No. 0504
15900 Hesperian Boulevard
San Lorenzo, California

725901-10

April 19, 1991

GeoStrategies Inc.
2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545
(415) 352-4800

April 19, 1991

Gettler-Ryan Inc.
2150 West Winton Avenue
Hayward, California 94545

Attn: Mr. Jeff Monroe

Re: SITE UPDATE
Chevron Service Station No. 0504
15900 Hesperian Boulevard
San Lorenzo, California

Gentlemen:

This report by GeoStrategies Inc. (GSI) describes the results of the first quarterly ground-water sampling for 1991 at the above-referenced location (Plate 1). The scope of work presented in this document was performed at the request of Chevron U. S. A. Inc. Field and chemical analytical data were collected by Gettler-Ryan Inc. (G-R) on March 6 and 15, 1991, in accordance with the current quarterly sampling plan for the site. Field work and laboratory analyses were performed to comply with current State of California Water Resources Control Board guidelines.

CURRENT QUARTER SAMPLING RESULTS

Potentiometric Data

Prior to ground-water sampling, depth to groundwater was measured in each well using an electronic oil-water interface probe. Static ground-water levels were measured from the surveyed top of the well box and recorded to the nearest ± 0.01 foot. Groundwater was encountered between 10.45 and 16.92 feet below the top of the well box. Corresponding elevations to mean sea level (MSL) are presented in Table 1.

Monitoring data collected on March 22, 1991, were used to construct a potentiometric map (Plate 1). These data were used since data collected prior to sampling were obtained on two different dates. Water-level data indicate an approximate hydraulic gradient of 0.003, with shallow ground-water flow toward the southwest beneath the site. A summary of the potentiometric data collected on March 6 and 15, 1991, is presented in Table 1.

Each well was monitored for the presence of separate-phase hydrocarbons using a portable oil-water interface probe. A clear acrylic bailer was used to visually confirm interface probe results. Separate-phase hydrocarbons were measured in Well C-2 at a thickness of 0.01 feet.

The ground-water monitoring wells were monitored weekly during this quarter for separate-phase hydrocarbons. Ground-water monitoring data for this quarter are presented in Appendix A.

Chemical Analytical Results

Ground-water samples were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline) according to EPA Method 8015 (Modified) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. The samples were analyzed by Superior Analytical Laboratory Inc. (Superior), a State-certified environmental laboratory located in San Francisco, California.

Detectable concentrations of TPH-Gasoline were reported in five ground-water monitoring wells, ranging from 240 parts per billion (ppb) in Well C-7, to 1,200,000 ppb in Well C-2. Detectable concentrations of benzene were reported in five wells, ranging from 7 ppb in Well C-3, to 4,700 ppb in Well C-2. TPH-Gasoline and benzene were reported as not detected (ND) in Wells C-4, C-5, C-6, C-9, C-10 and C-11. A summary of the current and historical chemical analytical data is presented in Table 2. Copies of the Superior analytical reports and the Chain-of-Custody forms are presented in Appendix B.

Quality Control

Quality Control (QC) samples for this quarter's sampling consisted of a duplicate sample, a trip blank and a field blank. The duplicate sample was collected as a split (second) sample to assess laboratory analytical precision. The trip and field blanks were prepared in the laboratory and in the field using organic-free water to evaluate laboratory and field handling procedures. The results of QC sample analyses are presented in Table 2.

If you have any questions, please call.

GeoStrategies Inc. by,

Kevin D. McGraw
Hydrologist

David H. Peterson
Senior Geologist
C.E.G. 1186

REGISTERED GEOLOGIST
DAVID H. PETERSON
No. 1186
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

KDM/DHP/mlg

Plate 1. Potentiometric Map

Appendix A: Ground-water Monitoring Data
Appendix B: Laboratory Analytical Reports

QC Review:

TABLE 1

FIELD MONITORING DATA

WELL NO.	MONITORING DATE	CASING DIA. (IN)	TOTAL WELL DEPTH (FT)	WELL ELEV. (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS (FT)	STATIC WATER ELEV. (FT)	PURGED WELL VOLUMES	pH	TEMPERATURE (F)	CONDUCTIVITY (u MHOS/CM)
C-1	15-Mar-91	3	19.0	33.93	11.40	----	22.53	5	6.88	66.8	1142
C-2	15-Mar-91	3	19.0	34.21	11.59	0.01	22.63	5	6.67	63.7	970
C-3	06-Mar-91	3	19.5	35.46	13.27	----	22.19	5	7.50	60.4	299
C-4	06-Mar-91	3	20.4	35.78	13.54	----	22.24	5	7.05	67.0	1201
C-5	06-Mar-91	3	19.5	35.31	13.06	----	22.25	5	6.91	67.3	1127
C-6	06-Mar-91	2	24.5	36.89	14.80	----	22.09	5	6.84	69.3	1034
C-7	06-Mar-91	2	25.2	32.75	16.92	----	15.83	5	6.87	66.5	1129
C-8	06-Mar-91	2	24.5	33.82	14.80	----	19.02	5	6.99	70.0	1170
C-9	06-Mar-91	2	25.0	33.43	12.12	----	21.31	5	8.07	64.2	178
C-10	06-Mar-91	2	25.0	31.63	10.45	----	21.18	5	7.27	67.1	1113
C-11	06-Mar-91	2	25.0	31.58	16.15	----	15.43	5	7.13	66.4	1131

Notes: 1. Static Water elevations referenced to Mean Sea Level (MSL).
2. Physical parameter measurements represent stabilized values.
3. pH values reported in pH units.
4. Static water-levels corrected for floating product (conversion factor = 0.80).
5. Wells C-1 and C-2 were monitored and sampled March 15, 1991.

TABLE 2

HISTORICAL GROUND-WATER QUALITY DATABASE

SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-D (PPB)	O&G (PPB)	TPH-O (PPB)
06-Jun-89	C-1	5100.	250.	170.	200.	990.	N/A	N/A	N/A
15-Mar-91	C-1	37000	220	53	580	1900	N/A	N/A	N/A
06-Jun-89	C-2	130000.	14000.	28000.	3400.	24000.	N/A	N/A	N/A
15-Mar-91	C-2	1200000	4700	16000	13000	140000	N/A	N/A	N/A
06-Jun-89	C-3	2600.	63.	20.	390.	370.	N/A	N/A	N/A
08-Dec-89	C-3	680.	6.	1.	31.	58.	N/A	N/A	N/A
07-Sep-90	C-3	490	6	<0.5	41	120	N/A	N/A	N/A
20-Dec-90	C-3	100	5	<0.5	27	130	N/A	N/A	N/A
06-Mar-91	C-3	1300	7	<0.5	75	250	N/A	N/A	N/A
06-Jun-89	C-4	<50.	<0.05	<1.	<1.	<3.	N/A	N/A	<500
08-Dec-89	C-4	<500.	<0.5	<0.5	<0.5	<0.5	<1000.	<5000.	N/A
07-Sep-90	C-4	<50	<0.5	<0.5	<0.5	<0.5	N/A	<5000	N/A
20-Dec-90	C-4	170	1	<0.5	<0.5	4	N/A	N/A	N/A
06-Mar-91	C-4	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Jun-89	C-5	<50.	<0.05	<1.	<1.	<3.	N/A	N/A	N/A
08-Dec-89	C-5	<500.	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
07-Sep-90	C-5	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
20-Dec-90	C-5	80	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Mar-91	C-5	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
08-Dec-89	C-6	<500.	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A

TABLE 2

HISTORICAL GROUND-WATER QUALITY DATABASE

SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-D (PPB)	O&G (PPB)	TPH-O (PPB)
07-Sep-90	C-6	57	<0.5	<0.5	0.6	4	N/A	N/A	N/A
20-Dec-90	C-6	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Mar-91	C-6	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
08-Dec-89	C-7	1700.	32.	12.	17.	150.	N/A	N/A	N/A
07-Sep-90	C-7	880	84	23	46	180	N/A	N/A	N/A
20-Dec-90	C-7	560	24	3	19	21	N/A	N/A	N/A
06-Mar-91	C-7	240	25	2	4	26	N/A	N/A	N/A
08-Dec-89	C-8	4800.	62.	11.	95.	180.	N/A	N/A	N/A
07-Sep-90	C-8	3700	170	31	180	270	N/A	N/A	N/A
20-Dec-90	C-8	3900	120	20	130	180	N/A	N/A	N/A
06-Mar-91	C-8	1200	45	6	34	57	N/A	N/A	N/A
07-Sep-90	C-9	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
20-Dec-90	C-9	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Mar-91	C-9	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
07-Sep-90	C-10	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
20-Dec-90	C-10	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Mar-91	C-10	<50	<0.5	0.8	<0.5	0.8	N/A	N/A	N/A
07-Sep-90	C-11	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
20-Dec-90	C-11	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Mar-91	C-11	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A

TABLE 2

HISTORICAL GROUND-WATER QUALITY DATABASE

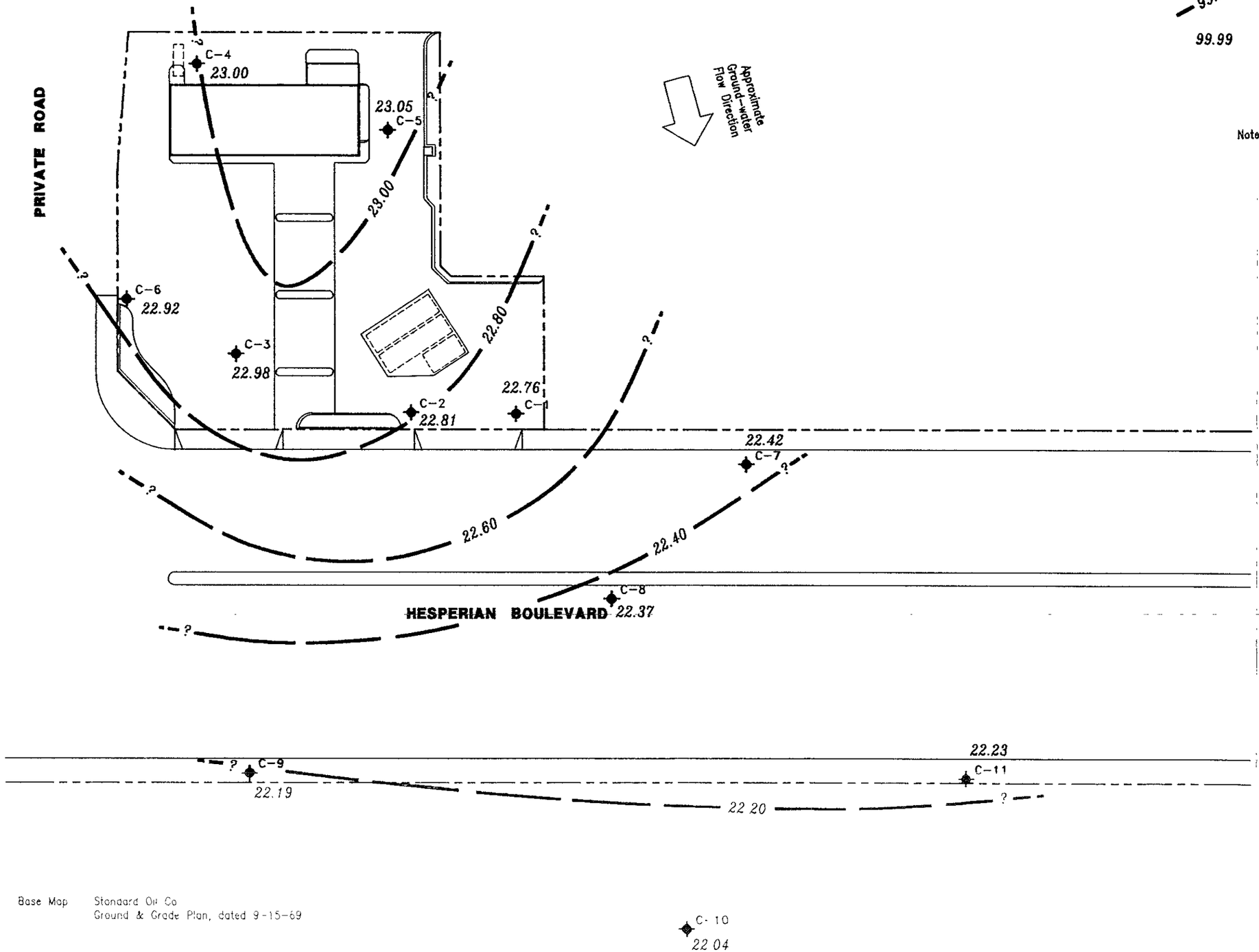
SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-D (PPB)	O&G (PPB)	TPH-O (PPB)
06-Mar-91	CD-3	1400	8	<0.5	76	250	N/A	N/A	N/A
06-Mar-91	CF-5	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A
06-Mar-91	TB	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	N/A

Current Regional Water Quality Control Board Maximum Contaminant Levels
Benzene 1. ppb Xylenes 1750. ppb Ethylbenzene 680. ppb

Current DHS Action Levels Toluene 100.0 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
PPB = Parts Per Billion CD = Duplicate Sample CF = Field Blank TB = Trip Blank
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel
TPH-O = Total Petroleum Hydrocarbons calculated as Oil
O&G = Total Oil & Grease
NOTE: 1. DHS Action levels and MCL's are subject to change pending State of California review.
2. All data shown as <X are reported as ND (not detected).

ILLUSTRATION



EXPLANATION

- Ground-water monitoring well
- 99.99 — Ground-water elevation contour Approximate Gradient = 0.003
- 99.99 — Ground-water elevation in feet referenced to Mean Sea Level (MSL) measured on March 22, 1991

Note: 1. Contours may be influenced by irrigation practices and/or site construction activities.

Base Map: Standard Oil Co
Ground & Grade Plan, dated 9-15-69

PLATE 1

POTENTIOMETRIC MAP
Chevron Service Station #0504
15900 Hesperian Blvd.
San Lorenzo, California

GeoStrategies Inc.

DATE	REVISED DATE
4/91	

REVIEWED BY

JOB NUMBER 725901-10

APPENDIX A
GROUND-WATER MONITORING DATA

CHEVRON USA 0504 SAN LORENZO - 15900 HESPERIAN BLVD/PRIVATE JOB 5259

DATE	WELL	DTH	DTW	HT	BAILED	PPM	LEL	DTB	EMP	C.ELEV
03-Jan-91	C-1	13.66	(1.00)	0.00					RW	
11-Jan-91	C-1	13.61	(1.00)	0.00					RA	
16-Jan-91	C-1	13.59	(1.00)	0.00					SM	
23-Jan-91	C-1	13.77	(1.00)	0.00					RA	
31-Jan-91	C-1		13.69	0.00					SM	
08-Feb-91	C-1	13.15	(1.00)	0.00					RA	
14-Feb-91	C-1		13.02	0.00					SM	
22-Feb-91	C-1	13.02	(1.00)	0.00					RA	
01-Mar-91	C-1	12.70	(1.00)	0.00					SM	
06-Mar-91	C-1	11.66	(1.00)	0.00					SD	
08-Mar-91	C-1	11.82	(1.00)	0.00					RA	
15-Mar-91	C-1	11.40	(1.00)	0.00					SM	
22-Mar-91	C-1		11.17	0.00					RA	
29-Mar-91	C-1		10.29	0.00					SM	
03-Jan-91	C-2	13.80	(1.00)	0.00						
11-Jan-91	C-2	13.73	(1.00)	0.00						
16-Jan-91	C-2	13.71	(1.00)	0.00						
23-Jan-91	C-2	13.62	(1.00)	0.00						
31-Jan-91	C-2		13.85	0.00						
08-Feb-91	C-2	13.32	(1.00)	0.00						
14-Feb-91	C-2		13.19	0.00						
22-Feb-91	C-2		13.18	0.00						
01-Mar-91	C-2	12.90	(1.00)	0.00						
06-Mar-91	C-2	12.15	12.16	0.01						
08-Mar-91	C-2		N/A							
15-Mar-91	C-2	11.59	(1.00)	0.00						
22-Mar-91	C-2		11.40	0.00						
29-Mar-91	C-2	10.49	(1.00)	0.00						
03-Jan-91	C-3		14.93	0.00						
11-Jan-91	C-3		14.87	0.00						
16-Jan-91	C-3		14.87	0.00						
23-Jan-91	C-3		14.91	0.00						
31-Jan-91	C-3		14.97	0.00						
08-Feb-91	C-3		14.46	0.00						
14-Feb-91	C-3		14.30	0.00						
22-Feb-91	C-3		14.31	0.00						
01-Mar-91	C-3		14.04	0.00						
06-Mar-91	C-3		13.27	0.00						
08-Mar-91	C-3		13.13	0.00						
15-Mar-91	C-3		12.74	0.00						
22-Mar-91	C-3		12.48	0.00						
29-Mar-91	C-3		11.58	0.00						
03-Jan-91	C-4		15.25	0.00						
11-Jan-91	C-4		15.17	0.00						
16-Jan-91	C-4		15.17	0.00						
23-Jan-91	C-4		15.21	0.00						

gettler — ryan inc. (415) 783-7500
general and environmental contractors

DATE	WELL	DTH	DTW	HT	BAILED	PPM	LEL	DTB	EMP	C.ELEV
31-Jan-91	C-4		15.26	0.00						
08-Feb-91	C-4		14.71	0.00						
14-Feb-91	C-4		14.58	0.00						
22-Feb-91	C-4		14.59	0.00						
01-Mar-91	C-4		14.31	0.00						
06-Mar-91	C-4		13.54	0.00						
08-Mar-91	C-4		13.41	0.00						
15-Mar-91	C-4		13.00	0.00						
22-Mar-91	C-4		12.78	0.00						
29-Mar-91	C-4		11.85	0.00						
03-Jan-91	C-5		14.76	0.00						
11-Jan-91	C-5		14.69	0.00						
16-Jan-91	C-5		14.68	0.00						
23-Jan-91	C-5		14.72	0.00						
31-Jan-91	C-5		14.79	0.00						
08-Feb-91	C-5		14.23	0.00						
14-Feb-91	C-5		14.10	0.00						
22-Feb-91	C-5		14.10	0.00						
01-Mar-91	C-5		13.80	0.00						
06-Mar-91	C-5		13.06	0.00						
08-Mar-91	C-5		12.92	0.00						
15-Mar-91	C-5		12.51	0.00						
22-Mar-91	C-5		12.26	0.00						
29-Mar-91	C-5		11.36	0.00						
03-Jan-91	C-6		16.45	0.00						
11-Jan-91	C-6		16.38	0.00						
16-Jan-91	C-6		16.39	0.00						
23-Jan-91	C-6		16.42	0.00						
31-Jan-91	C-6		16.48	0.00						
08-Feb-91	C-6		15.96	0.00						
14-Feb-91	C-6		15.82	0.00						
22-Feb-91	C-6		15.80	0.00						
01-Mar-91	C-6		15.56	0.00						
06-Mar-91	C-6		14.80	0.00						
08-Mar-91	C-6		14.65	0.00						
15-Mar-91	C-6		14.24	0.00						
22-Mar-91	C-6		13.97	0.00						
29-Mar-91	C-6		13.09	0.00						
03-Jan-91	C-7		12.66	0.00						
11-Jan-91	C-7		12.60	0.00						
16-Jan-91	C-7		12.59	0.00						
23-Jan-91	C-7		12.60	0.00						
31-Jan-91	C-7		12.66	0.00						
08-Feb-91	C-7		12.10	0.00						
14-Feb-91	C-7		12.03	0.00						
22-Feb-91	C-7		12.02	0.00						

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general and environmental contractors

DATE	WELL	DTH	DTW	HT	BAILED	PPM	LEL	DTB	EMP	C.ELEV
01-Mar-91	C-7		11.58	0.00						
06-Mar-91	C-7		16.92	0.00						
08-Mar-91	C-7		10.81	0.00						
15-Mar-91	C-7		N/A							
22-Mar-91	C-7		10.33	0.00						
29-Mar-91	C-7		9.25	0.00						
03-Jan-91	C-8		14.00	0.00						
11-Jan-91	C-8		13.95	0.00						
16-Jan-91	C-8		13.91	0.00						
23-Jan-91	C-8		13.95	0.00						
31-Jan-91	C-8		14.01	0.00						
08-Feb-91	C-8		13.29	0.00						
14-Feb-91	C-8		13.35	0.00						
22-Feb-91	C-8		13.32	0.00						
01-Mar-91	C-8		12.94	0.00						
06-Mar-91	C-8		14.80	0.00						
08-Mar-91	C-8		12.14	0.00						
15-Mar-91	C-8		11.70	0.00						
22-Mar-91	C-8		11.45	0.00						
29-Mar-91	C-8		10.59	0.00						
03-Jan-91	C-9		13.69	0.00						
11-Jan-91	C-9		12.70	0.00						
16-Jan-91	C-9		13.67	0.00						
23-Jan-91	C-9		13.68	0.00						
31-Jan-91	C-9		13.75	0.00						
08-Feb-91	C-9		13.27	0.00						
14-Feb-91	C-9		13.11	0.00						
22-Feb-91	C-9		13.09	0.00						
01-Mar-91	C-9		12.80	0.00						
06-Mar-91	C-9		12.12	0.00						
08-Mar-91	C-9		12.16	0.00						
15-Mar-91	C-9		11.51	0.00						
22-Mar-91	C-9		11.24	0.00						
29-Mar-91	C-9		10.37	0.00						
03-Jan-91	C-10		12.16	0.00						
11-Jan-91	C-10		12.10	0.00						
16-Jan-91	C-10		12.08	0.00						
23-Jan-91	C-10		12.09	0.00						
31-Jan-91	C-10		12.17	0.00						
08-Feb-91	C-10		11.60	0.00						
14-Feb-91	C-10		11.50	0.00						
22-Feb-91	C-10		11.47	0.00						
01-Mar-91	C-10		11.01	0.00						
06-Mar-91	C-10		10.45	0.00						
08-Mar-91	C-10		10.27	0.00						
15-Mar-91	C-10		9.83	0.00						

gettler — ryan inc. (415) 783-7500
general and environmental contractors

DATE	WELL	DTH	DTW	HT	BAILED	PPM	LEL	DTB	EMP	C.ELEV
22-Mar-91	C-10		9.59	0.00						
29-Mar-91	C-10		8.76	0.00						
03-Jan-91	C-11		11.89	0.00						
11-Jan-91	C-11		11.86	0.00						
16-Jan-91	C-11		11.84	0.00						
23-Jan-91	C-11		11.82	0.00						
31-Jan-91	C-11		11.91	0.00						
08-Feb-91	C-11		11.29	0.00						
14-Feb-91	C-11		11.29	0.00						
22-Feb-91	C-11		11.25	0.00						
01-Mar-91	C-11		10.68	0.00						
06-Mar-91	C-11		16.15	0.00						
08-Mar-91	C-11		10.01	0.00						
15-Mar-91	C-11		9.56	0.00						
22-Mar-91	C-11		9.35	0.00						
29-Mar-91	C-11		8.51	0.00						

gettler — ryan inc. (415) 783-7500
general and environmental contractors

APPENDIX B
LABORATORY ANALYTICAL REPORTS

GETTLER-RYAN INC.
GENERAL CONTRACTORS

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE UNIT I · SAN FRANCISCO CA 94124 · PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 11582
CLIENT: Chevron USA
CLIENT JOB NO.: 3259.01

DATE RECEIVED: 03/06/91
DATE REPORTED: 03/14/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
11582- 1	C-3	03/06/91	03/12/91
11582- 2	C-4	03/06/91	03/12/91
11582- 3	C-5	03/06/91	03/12/91
11582- 4	C-6	03/06/91	03/12/91
11582- 5	C-7	03/06/91	03/12/91
11582- 6	C-8	03/06/91	03/13/91
11582- 7	C-9	03/06/91	03/12/91
11582- 8	CD-3	03/06/91	03/12/91
11582- 9	CF-5	03/06/91	03/12/91
11582-10	Trip Blank	03/06/91	03/12/91

Laboratory Number:	11582 1	11582 2	11582 3	11582 4	11582 5
ANALYTE LIST	Amounts/Quantitation Limits (ug/l)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	1300	ND<50	ND<50	ND<50	240
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	7	ND<0.5	ND<0.5	ND<0.5	25
TOLUENE:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2
ETHYL BENZENE:	75	ND<0.5	ND<0.5	ND<0.5	4
XYLENES:	250	ND<0.5	ND<0.5	ND<0.5	26

Laboratory Number:	11582 6	11582 7	11582 8	11582 9	11582 10
ANALYTE LIST	Amounts/Quantitation Limits (ug/l)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	1200	ND<50	1400	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	45	ND<0.5	8	ND<0.5	ND<0.5
TOLUENE:	6	ND<0.5	ND<0.5	ND<0.5	ND<0.5
ETHYL BENZENE:	34	ND<0.5	76	ND<0.5	ND<0.5
XYLENES:	57	ND<0.5	250	ND<0.5	ND<0.5

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE UNIT I · SAN FRANCISCO CA 94124 · PHONE (415) 647-2081 DOHS #1332

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

LABORATORY NO.: 11582
CLIENT: Chevron USA
CLIENT JOB NO.: 3259.01

DATE RECEIVED: 03/06/91
DATE REPORTED: 03/14/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
11582-11	C-10	03/06/91	03/12/91
11582-12	C-11	03/06/91	03/12/91

Laboratory Number:	11582 11	11582 12
ANALYTE LIST	Amounts/Quantitation Limits (ug/l)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA
BENZENE:	ND<0.5	ND<0.5
TOLUENE:	0.8	ND<0.5
ETHYL BENZENE:	ND<0.5	ND<0.5
XYLENES:	0.8	ND<0.5

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE UNIT I · SAN FRANCISCO CA 94124 · PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 11582

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: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/l
Standard Reference: 01/28/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	87/89	3	63-111
Benzene	01/28/91	200ng	106/104	2	72-119
Toluene	01/28/91	200ng	102/102	0	70-116
Ethyl Benzene	01/28/91	200ng	107/109	2	73-119
Total Xylene	01/28/91	600ng	108/110	2	71-118

Richard Sena, Ph.D.
Laboratory Director

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE UNIT I · SAN FRANCISCO CA 94124 · PHONE (415) 647-2081

GETTLER-RYAN INC.
GENERAL CONTRACTORS
DOHS #1332

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 11634
CLIENT: Chevron USA
CLIENT JOB NO.: 3259.01

DATE RECEIVED: 03/15/91
DATE REPORTED: 03/22/91

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
11634- 1	C-1	03/15/91	03/20/91
11634- 2	C-2	03/15/91	03/21/91
11634- 3	TRIP BLANK	03/15/91	

Laboratory Number:	11634 1	11634 2	11634 3
ANALYTE LIST	Amounts/Quantitation Limits (ug/l)		
OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	37000	1200000	NA
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	220	4700	NA
TOLUENE:	53	16000	NA
ETHYL BENZENE:	580	13000	NA
XYLENES:	1900	140000	NA

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE UNIT I · SAN FRANCISCO CA 94124 · PHONE (415) 647-2081 DOHS #1332

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

QA/QC INFORMATION
SET: 11634

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: 08/24/90

SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/l
Standard Reference: 01/28/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	08/24/90	200ng	81/85	5	63-111
Benzene	01/28/91	200ng	94/95	2	72-119
Toluene	01/28/91	200ng	89/91	2	70-116
Ethyl Benzene	01/28/91	200ng	93/95	2	73-119
Total Xylene	01/28/91	600ng	94/97	2	71-118

Richard Srna, Ph.D.
Cecilia G Soriano (for)
Laboratory Director

OUTSTANDING QUALITY AND SERVICE

Chain-of-Custody-Record

3/4/11/08 ←

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

Chevron Facility Number: 0504
Facility Address: 15900 Hesperian Blvd, Hayw
Consultant Project Number: 3259.01
Consultant Name: Gettler Ryan Inc
Address: 2150 W. Winton
Project Contact (Name): Tom Paulson
(Phone) 783-7500 (Fax Number)

Chevron Contact (Name): Vakelich
(Phone) 415-278-3831
Laboratory Name: Superior
Laboratory Release Number: 2472450
Samples Collected by (Name): Randall F. Hedegaard
Collection Date: 3-6-91
Signature: Randall F. Hedegaard

Sample number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	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
C-3	3	W		1305	HCl	Yes	✓												
C-4				1345			✓												
C-5				1405			✓												
C-6				1256			✓												
C-7				1330			✓												
C-8				1400			✓												
C-9				1514			✓												
CD-3				~~1517~~	RFH		✓												
CF-5				~~1436~~	1406		✓												
Trip Blank	1			—			✓												
C-10	3			1517			✓												
C-11	3	W		1436			✓												

Relinquished By (Signature): Randall F. Hedegaard
Organization: G/R
Date/Time: 3/9/1630

Relinquished By (Signature): [signature]
Organization: G/R
Date/Time: 3-7-91 08:00

Relinquished By (Signature): [signature]
Organization: G/R
Date/Time: 3-7-91 11:55

Received By (Signature): Refrig #1
Organization: G/R
Date/Time: 3-6-91/1650

Received By (Signature): [signature]
Organization: G/R
Date/Time: 3-7-91 08:00

Received For Laboratory By (Signature): [signature]
Date/Time: 3/7/91 11:55am

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

2FH 11034

Chain-of-Custody-Record

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

Chevron Facility Number: 0504
Facility Address: 1550 Hesperian Blvd Hayward
Consultant Project Number: 3259.01
Consultant Name: Gettler Ryan Inc
Address: 2150 W Winton Hayward
Project Contact (Name): Tom Paulson
(Phone): 783-7500 (Fax Number):

Chevron Contact (Name): Nancy Vukelich
(Phone): 278-3831
Laboratory Name: Superior
Laboratory Release Number: 247250
Samples Collected by (Name): Randall F. Hildegaard
Collection Date: 3-15-91
Signature: [signature]

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)	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
C-1	2	W		~~1025~~ 0957 RFH	HCl	Yes	✓												
C-2	2	↓		~~0957~~ 1025	↓	↓	✓												
Trip Blank	1	↓			↓	↓	✓	Trip Blank Broken RFH											

Please initial: RC
Samples Stored in ice. Y
Appropriate containers. Y
Samples preserved. Y
VOA's without headspace. Y
Comments:

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
[signature]	G/R	3-15-91/1530				24 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	48 Hrs.
						(5 Days) circled
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time	10 Days
			[signature]		3/15/91 3:32P	As Contracted