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

Operations

93 FEB -8 PM 7:12

February 4, 1993

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

Re: Chevron Service Station No. 9-3356
19201 Center Street, Castro Valley, CA 94546

Dear Mr. Seery :

Enclosed is the quarterly groundwater monitoring and sampling report from Alton Geoscience dated February 3, 1993.

All groundwater samples with the exception of MW-1 were nondetect (ND) for total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylenes (BTEX). Sample MW-1 detected 0.8 ppb toluene and 0.8 ppb xylenes. This is probably an anomaly. During this sampling event, depth to water ranged from 12.34 to 17.12 feet.

If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan
Engineer

LKAN/MacFile 9-3356R4

Enclosure

cc: Mr. Eddie So
RWQCB-S.F.Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Steve Willer
Chevron U.S.A. Products Co.

ALTON GEOSCIENCE
THE RESULTS TEAM

February 3, 1993

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

31-0299

Subject: Quarterly Ground Water Monitoring Report
Chevron Station No. 9-3356
19201 Center Street,
Castro Valley, California

Dear Mr. Kan:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-3356, located at 19201 Center Street, Castro Valley, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells were performed on January 13, 1993, 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 in each well was measured from the top of casing using an electronic interface probe with 0.01 foot tolerance.

Ground water analytical samples were collected using a clean bailer after more than 3 casing volumes of ground water were purged from each well. 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 hauled, as non-hazardous, to the Chevron Richmond Terminal for treatment.

5870 Stoneridge Drive, Suite 6
Pleasanton, California 94588
(510) 734-8134 • FAX (510) 734-8420

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 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.

No liquid-phase hydrocarbons or sheen were observed in any of the ground water samples. The official laboratory reports and chain of custody records are included in Appendix A.

Please call Todd B. Pearson at (510) 734-8134 if you have any questions concerning this report.

Sincerely,

ALTON GEOSCIENCE,

Todd B. Pearson
Staff Scientist

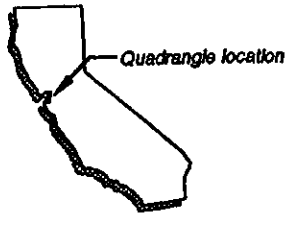
Peter C. Lange, R.G. 5089
Associate, Northern California Operations

wp93356tp

N

0 2,000

SCALE (FEET)



Source: U.S.G.S. Map
Hayward Quadrangle
California
7.5 Minute Series

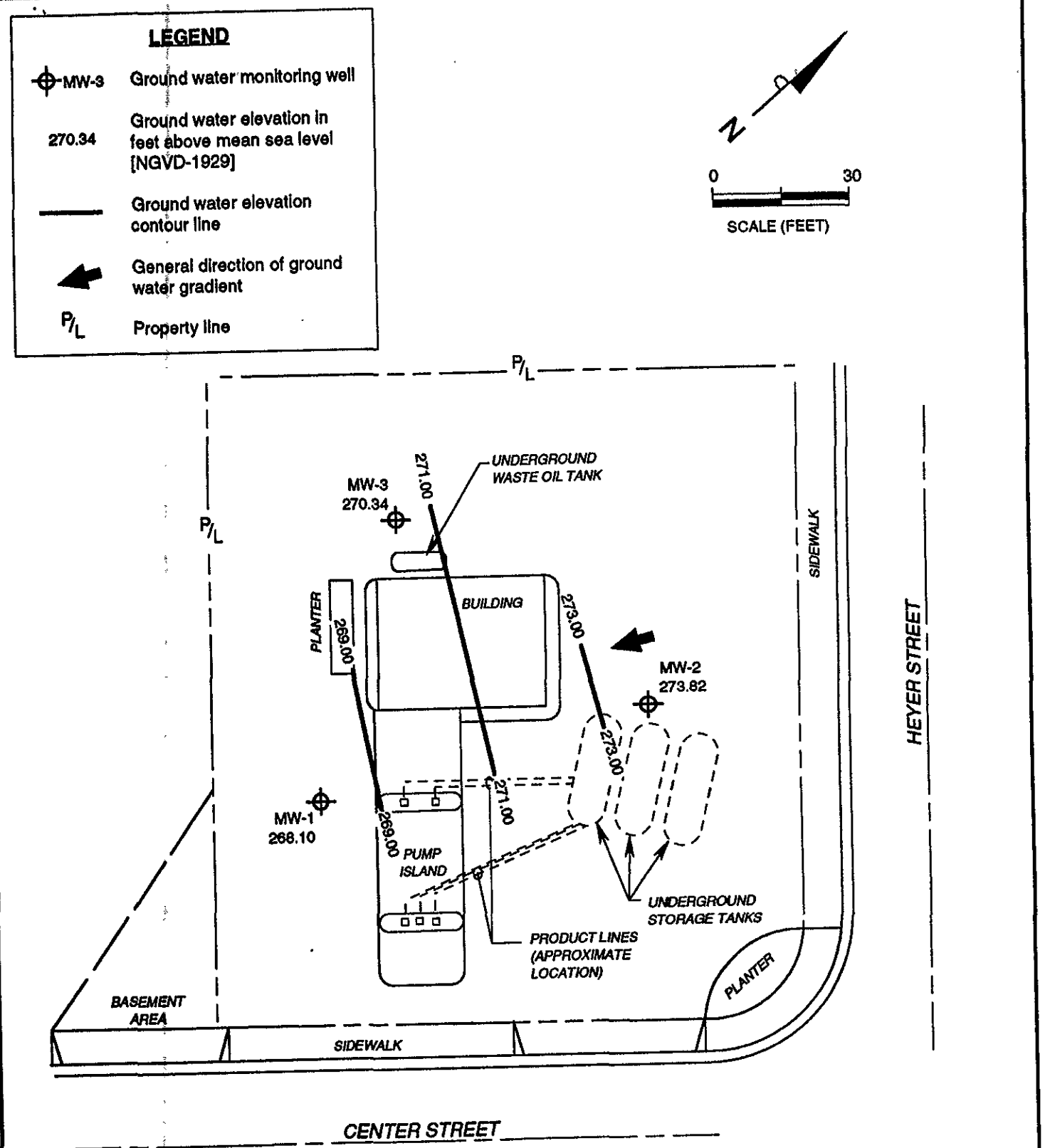
SITE VICINITY MAP

Chevron Service Station
No.9-3356
19201 Center Street
Castro Valley, California

ALTON GEOSCIENCE
Pleasanton, California

Project No. 31-0299

FIGURE 1



GROUND WATER ELEVATION CONTOUR MAP
January 13, 1993

Chevron Station No. 9-3356
19201 Center Street
Castro Valley, California

FIGURE 2

NOTES:
Contour lines are interpretive based on fluid levels collected January 13, 1993.
Contour interval = 2.0 feet.

ALTON GEOSCIENCE
Pleasanton, California

Source: Chevron U.S.A.

31-0299 2/2/93

31-0299

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station No. 9-3356
19201 Center Street, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	HVOC	TOG	B	T	E	X	ORG-Pb	LAB
MW-1	09/06/89	285.22	18.25	266.97	ND<1.0	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	GTEL
MW-1	09/12/89	285.22	18.39	266.83	---	---	---	---	---	---	---	---	NA
MW-1	11/20/89	285.22	18.06	267.16	ND<500	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-1	02/22/90	285.22	18.04	267.18	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-1	05/29/90	285.22	18.55	266.67	ND<50	---	---	0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-1	09/27/90	285.22	19.13	266.09	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	---	GTEL
MW-1	01/16/91	285.22	19.32	265.90	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	09/19/91	285.22	19.36	265.86	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	01/23/92	285.22	19.81	265.41	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1D	01/23/92	285.22	19.81	265.41	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	04/15/92	285.22	18.04	267.18	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	07/22/92	285.22	18.75	266.47	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	10/14/92	285.22	19.25	265.97	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-1	01/13/93	285.22	17.12	268.10	ND<50	---	---	ND<0.5	0.8	ND<0.5	0.8	---	SAL
MW-2	09/06/89	286.16	13.72	272.44	23	---	---	1	4	1	4	ND<50	GTEL
MW-2	09/12/89	286.16	13.97	272.19	---	---	---	---	---	---	---	---	NA
MW-2	11/20/89	286.16	13.81	272.35	ND<500	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-2	02/22/90	286.16	13.68	272.48	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-2	05/29/90	286.16	13.92	272.24	ND<50	---	---	2	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-2	09/27/90	286.16	14.75	271.41	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.6	---	GTEL
MW-2	01/16/91	286.16	14.44	271.72	ND<50	---	---	9	ND<0.5	ND<0.5	2	---	SAL
MW-2	09/19/91	286.16	14.46	271.70	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2D	09/19/91	286.16	14.46	271.70	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	01/23/92	286.16	14.73	271.43	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	04/15/92	286.16	13.03	273.13	ND<50	---	---	0.9	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	07/22/92	286.16	13.83	272.33	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	10/14/92	286.16	14.35	271.81	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-2	01/13/93	286.16	12.34	273.82	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL

31-0299

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station No. 9-3356
19201 Center Street, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	HVOC	TOG	B	T	E	X	ORG-Pb	LAB
MW-3	09/06/89	284.46	18.73	265.73	ND<1.0	ND*	1000	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	GTEL
MW-3	09/12/89	284.46	17.78	266.68	---	---	---	---	---	---	---	---	NA
MW-3	11/20/89	284.46	17.65	266.81	ND<500	ND*	ND<1000	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-3	02/22/90	284.46	16.84	267.62	ND<50	ND*	ND<1000	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<50	GTEL
MW-3	05/29/90	284.46	17.13	267.33	ND<50	ND*	ND<1000	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<50	GTEL
MW-3	09/27/90	284.46	18.38	266.08	ND<50	ND*	---	ND<5	ND<5	ND<5	ND<5	---	GTEL
MW-3D	09/27/90	284.46	18.38	266.08	ND<50	---	ND<1000	---	---	---	---	---	GTEL
MW-3	01/16/91	284.46	18.28	266.18	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3D	01/16/91	284.46	18.28	266.18	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	09/19/91	284.46	17.62	266.84	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	01/23/92	284.46	17.62	266.84	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	04/15/92	284.46	15.22	269.24	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	07/22/92	284.46	16.66	267.80	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	10/14/92	284.46	17.57	266.89	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
MW-3	01/13/93	284.46	14.12	270.34	ND<50	ND*	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	11/20/89	NA	NA	NA	ND<500	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	GTEL
TB	02/22/90	NA	NA	NA	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	GTEL
TB	05/29/90	NA	NA	NA	ND<50	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	GTEL
TB	09/27/90	NA	NA	NA	ND<50	---	---	---	---	---	---	---	GTEL
TB	01/16/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	09/19/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	01/23/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	04/15/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	07/22/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	10/14/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
TB	01/13/93	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL

31-0299

Table 1
Summary of Results of Ground Water Sampling
Chevron Service Station No. 9-3356
19201 Center Street, Castro Valley, California

Concentrations in parts per billion (ppb)

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	TPH-G	HVOC	TOG	B	T	E	X	ORG-Pb	LAB
RINSATE	09/27/90	NA	NA	NA	ND<50	---	---	---	---	---	---	---	GTEL
RINSATE	01/16/91	NA	NA	NA	---	---	---	---	---	---	---	---	NA
RINSATE	09/19/91	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	01/23/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	04/15/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	07/22/92	NA	NA	NA	ND<50	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	SAL
RINSATE	10/14/92	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)
HVOC :Halogenated Volatile Organic Compounds (EPA method 8010)
TOG :Total Oil and Grease (EPA method 503D & 503E)
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)
ORG-Pb :Organic Lead

--- :Not Analyzed/Not Measured
NA :Not Applicable/Not Available
ND :Not Detected
ND* :See laboratory reports for various detection limits.
TB :Trip Blank
D :Duplicate
GTEL :GTEL Analytical Laboratory
SAL :Superior Analytical Laboratory

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

APPENDIX A

OFFICIAL LABORATORY RESULTS
AND
CHAIN OF CUSTODY FORMS

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

JAN 2 9 1993

Alton Geoscience
Attn: TODD PEARSON

Project 31-0299
Reported 01/25/93

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed	Matrix
87617- 1	TB-LB	01/13/93	01/22/93	Water
87617- 2	MW-1	01/13/93	01/22/93	Water
87617- 3	MW-2	01/13/93	01/25/93	Water
87617- 4	MW-3	01/13/93	01/22/93	Water

RESULTS OF ANALYSIS

Laboratory Number:	87617- 1	87617- 2	87617- 3	87617- 4
Gasoline:	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	0.8	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<0.5	0.8	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

JAN 29 1993

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 87617-4
CLIENT: ALTON GEOSCIENCE
JOB NO.: 31-0299

DATE SAMPLED: 01/13/93
DATE RECEIVED: 01/14/93
DATE ANALYZED: 01/18/93

EPA SW-846 METHOD 8010
HALOGENATED VOLATILE ORGANICS
SAMPLE:MW-3

Compound	MDL (ug/L)	RESULTS (ug/L)
Chloromethane/Vinyl Chloride	1.0	ND
Bromomethane/Chloroethane	1.0	ND
Trichlorofluoromethane	0.5	ND
1,1-Dichloroethene	0.5	ND
Methylene Chloride	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,1-Dichloroethane	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
Chloroform	0.5	ND
1,1,1-Trichloroethane	0.5	ND
Carbon tetrachloride	0.5	ND
1,2-Dichloroethane	0.5	ND
Trichloroethylene	0.5	ND
1,2-Dichloropropane	0.5	ND
Bromodichloromethane	0.5	ND
Cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Dibromochloromethane	0.5	ND
Chlorobenzene	0.5	ND
Bromoform	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND

MDL = Method Detection Limit
ug/L = parts per billion (ppb)
QA/QC Summary: Daily Standard RPD =< 15%
MS/MSD average recovery = 94% :MS/MSD RPD =10%

Richard Srna, Ph.D.
Laboratory Director

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229 1512 / fax (510) 229-1526

JAN 2 9 1993

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: 87617

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	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	89/89	0%	70-130
Benzene:	88/78	12%	70-130
Toluene:	98/88	11%	70-130
Ethyl Benzene:	105/94	11%	70-130
Xylenes:	105/94	11%	70-130

Richard Srna, Ph.D.
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: ☐ No 8+617

Chain-of-Custody-Record

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

Chevron Facility Number: 9-3356
Facility Address: 19201 Center St, Castro Valley
Consultant Project Number: 31-0299
Consultant Name: Alton Geoscience
Address: 5870 Stoneridge Dr # Pleasanton
Project Contact (Name): Todd Pearson
(Phone) 510-734-9134 (Fax Number) 734-8420

Chevron Contact (Name): Ken Kan
(Phone) (510) 842-9500
Laboratory Name: Superior Analytical
Laboratory Release Number: 6827860
Samples Collected by (Name): Jim Summers
Collection Date: 1-13-93
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: 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)				Remarks
																JAN 29 1993			
TB-LB		1	W	G		HCL	Y	X											Do Not Bill Chevron for TB-LB Analyze
MW-1		4	W	G		HCL	Y	X											" "
MW-2		4	W	G		HCL	Y	X											" "
MW-3		4	W	G		HCL	Y	X			X								" "

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

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
	Alton	1-14-93 1030		Express It	1-14-93 1030	24 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	48 Hrs.
	Express It	1-14-93 1615				5 Days
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	10 Days (As Contracted)
			Roger Ames		1/14/93 11:15	