



GETTLER-RYAN INC.

TRANSMITTAL

August 16, 2001

G-R #: 386521

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Former Chevron Service Station
209339
5940 College Avenue
Oakland, California

SEP 04 2001

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 7, 2001	Groundwater Monitoring and Sampling Report Third Quarter - Event of July 9, 2001

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **August 30, 2001**, at which time the final report will be distributed to the following:

Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway,
Suite 250, Alameda, CA 94502-6577

Mr. Greg Gurs, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/20-9339-TB



GETTLER-RYAN INC.

August 7, 2001
G-R Job #386521

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: Third Quarter Event of July 9, 2001
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

SEP 04 2001

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached). A joint monitoring event was conducted with Sheaff's Garage located at 5930 College Avenue, Oakland, California.

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

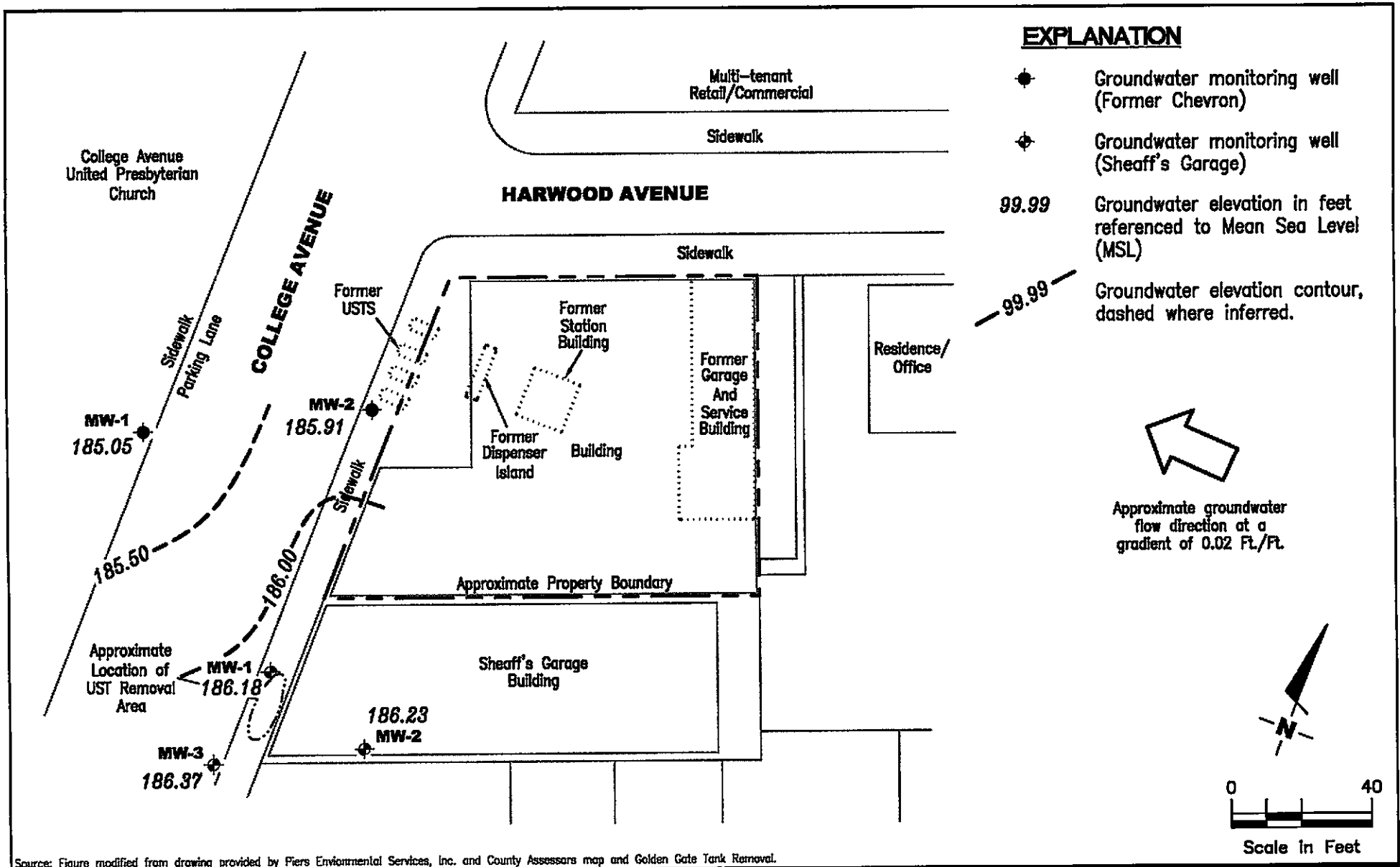
Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734



- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Table 3: Groundwater Analytical Results
- Table 4: Field Measurements
- Table 5: Joint Groundwater Monitoring Data and Analytical Results
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by Piers Environmental Services, Inc. and County Assessors map and Golden Gate Tank Removal.

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Former Chevron Service Station #209339
 5940 College Avenue
 Oakland, California

FIGURE
1

PROJECT NUMBER
386521

REVIEWED BY

DATE
 July 9, 2001

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
196.91	01/03/01	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
	04/25/01	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
	07/09/01	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
MW-2									
197.35	01/03/01	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
	04/25/01	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
	07/09/01	11.44	185.91	2,500 ⁵	200	21	55	26	<50
TRIP BLANK									
TB-LB	01/03/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/09/01	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

EXPLANATIONS:

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

* TOC elevations were surveyed on December 27, 2000, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elev. = 179.075 feet, msl).

¹ Laboratory report indicates unidentified hydrocarbons C6-C12.

² Laboratory report indicates gasoline C6-C12.

³ MTBE by EPA Method 8260.

⁴ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

⁵ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)
MW-1	01/03/01	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
MW-2	01/03/01	<500	<50	2.2	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	FERROUS IRON (ppm)	TOTAL ALKALINITY (ppm)	SULFATE AS SO ₄ (ppm)
MW-1	04/25/01	0.15	380	11
	07/09/01	<0.050	410	6.8
MW-2	04/25/01	0.093	680	21
	07/09/01	0.44	600	9.3

EXPLANATIONS:

(ppm) = Parts per million

ANALYTICAL METHODS:

EPA Method 6010 for Ferrous Iron

EPA Method 310.1 for Total Alkalinity

EPA Method 300.0 for Sulfate as SO₄

Table 4
Field Measurements
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	D.O. Before Purging (mg/L)	ORP (mV)
MW-1	07/09/01	1.25	111
MW-2	07/09/01	1.89	16

EXPLANATIONS:

D.O. = Dissolved Oxygen Concentration
mg/L = milligrams per liter
ORP = Oxygen Reduction Potential
(mV) = Millivolt

Table 5
Joint Groundwater Monitoring Data and Analytical Results
 Sheaff's Garage
 5930 College Avenue
 Oakland, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
195.90	04/25/01 ¹	7.39	188.51	--	--	--	--	--	--
	07/09/01	9.72	186.18	79,000	15,000	7,800	3,000	15,000	660
MW-2									
197.28	04/25/01 ¹	8.52	188.76	--	--	--	--	--	--
	07/09/01	11.05	186.23	39,000	6,200	730	2,300	6,100	180
MW-3									
195.22	04/25/01 ¹	6.61	188.61	--	--	--	--	--	--
	07/09/01	8.85	186.37	12,000	39	10	690	1,600	35

EXPLANATIONS:

Joint groundwater monitoring data and laboratory analytical results were provided by Golden Gate Tank Removal, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

* TOC elevations were surveyed on April 26, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

¹ Joint monitoring laboratory analytical results were not provided.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ CHEVRON
 Facility # 209339
 Address: 5940 COLLEGE AVE.
 City: OAKLAND, CA

Job#: 386521
 Date: 7-9-01
 Sampler: FRANK T.

Well ID MW-1 Well Condition: GOOD
 Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 20.10 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 11.86 ft. Factor (VF) 6" = 1.50 12" = 5.80

8.24 x VF .17 = 1.40 x 3 (case volume) = Estimated Purge Volume: 4.20 (gal.)

Purge Equipment: (Disposable Bailer) Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: (Disposable Bailer) Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 10:08 Weather Conditions: OVERCAST
 Sampling Time: 10:25 Water Color: CLEAR Odor: LCS
 Purging Flow Rate: N/A gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm X 100	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:11</u>	<u>1.5</u>	<u>7.52</u>	<u>353</u>	<u>65.1</u>	<u>PRE-1.25</u>	<u>111</u>	
<u>10:14</u>	<u>3.0</u>	<u>6.89</u>	<u>330</u>	<u>64.4</u>			
<u>10:17</u>	<u>4.0</u>	<u>6.87</u>	<u>314</u>	<u>63.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG/BTEX/MTOE</u>
	<u>1 X 500 ML. PL.</u>	<u>''</u>	<u>NONE</u>	<u>''</u>	<u>SULFATE / FERROUS</u>
					<u>IRON / ALKALINITY</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ CHEVRON
 Facility # 209339
 Address: 5940 COLLEGE AVE.
 City: OAKLAND, CA

Job#: 386521
 Date: 7-9-01
 Sampler: FRANK T.

Well ID MW-2
 Well Diameter 2 in.
 Total Depth 20.04 ft.
 Depth to Water 11.44 ft.

Well Condition: OK
 Hydrocarbon Thickness: 0 in.
 Amount Bailed (product/water): 0 (gal.)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

8.60 x VF .17 = 1.46 x 3 (case volume) = Estimated Purge Volume: 4.38 (gal.)

Purge Equipment: (Disposable Bailer)
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: (Disposable Bailer)
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 10:49
 Sampling Time: 11:07
 Purging Flow Rate: N/A gpm.
 Did well de-water? NO

Weather Conditions: OVERCAST
 Water Color: CLEAR Odor: YES
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:52</u>	<u>1.5</u>	<u>7.15</u>	<u>378</u>	<u>65.1</u>	<u>PRE-1.89</u>	<u>16</u>	
<u>10:55</u>	<u>3.0</u>	<u>6.84</u>	<u>372</u>	<u>64.8</u>			
<u>10:58</u>	<u>4.0</u>	<u>6.77</u>	<u>370</u>	<u>64.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 X VDA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH6/BTEX/MTOE</u>
	<u>1X 500 ML.</u>	<u>"</u>	<u>NONE</u>	<u>"</u>	<u>SULFATE/FERROUS</u>
	<u>PLASTIC</u>				<u>IRON/ALKALINITY</u>

COMMENTS: _____

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

Chain-of-Custody-Record

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number #209339
Facility Address 5940 COLLEGE AVE., OAKLAND, CA
Consultant Project Number 386521
Consultant Name GETTLER-RYAN INC.
Address 6747 SIERRA CT. SUITE J, DUBLIN, CA
Project Contact (Name) DEANNA L. HARDING
(Phone) 925-551-7555 (Fax Number) 925-551-7888

Chevron Contact (Name) MR. THOMAS BAUHS
(Phone) 925-842-8898
Laboratory Name SEQUOIA W107129
Laboratory Service Order _____
Laboratory Service Code _____
Samples Collected by (Name) FRANK TERRINONI
Signature Frank Terrinoni

State Method: CA OR WA NW Series CO UT

Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	A = Air C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HClD	TPH-D Extended	SULFATE FERROUS IRON ALKALINITY	
TB-LB	1	W	HCL		7-9-01	X			01A											
MW-1	4	W	HCL		10:25	X			02A-D										X	
MW-2	4	W	HCL		11:07	X			03A-D										X	

Remarks
*** PLEASE FILTER FERROUS IRON ASAP!**

Lab Sample No.

Run 5 Oxy's by 8260 on all 8020 MTBE hits.

Relinquished By (Signature) <u>Frank Terrinoni</u>	Organization <u>G-R INC.</u>	Date/Time <u>7-10-01</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Iced Y/N _____
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received By (Signature) _____	Organization _____	Date/Time _____	Iced Y/N _____
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Ronald C. Johnson</u>	Organization _____	Date/Time <u>7/10/01</u>	Iced Y/N _____

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted



Sequoia
Analytical

RECEIVED

JUL 25 2001

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

GETTLER-RYAN INC.
GENERAL CONTRACTORS

25 July, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W107124

Enclosed are the results of analyses for samples received by the laboratory on 10-Jul-01 08:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

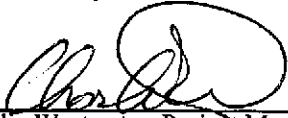
Reported:
25-Jul-01 07:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W107124-01	Water	09-Jul-01 00:00	10-Jul-01 08:35
MW-1	W107124-02	Water	09-Jul-01 10:25	10-Jul-01 08:35
MW-2	W107124-03	Water	09-Jul-01 11:07	10-Jul-01 08:35

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Charlie Westwater, Project Manager





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
25-Jul-01 07:54

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W107124-01) Water Sampled: 09-Jul-01 00:00 Received: 10-Jul-01 08:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	1G10003	18-Jul-01	18-Jul-01	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130		"	"	"	"	
MW-1 (W107124-02) Water Sampled: 09-Jul-01 10:25 Received: 10-Jul-01 08:35									
Purgeable Hydrocarbons	290	50	ug/l	1	1G10003	18-Jul-01	18-Jul-01	EPA 8015M/8020	P-04
Benzene	1.8	0.50	"	"	"	"	"	"	
Toluene	2.0	0.50	"	"	"	"	"	"	
Ethylbenzene	2.5	0.50	"	"	"	"	"	"	
Xylenes (total)	0.96	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130		"	"	"	"	
MW-2 (W107124-03) Water Sampled: 09-Jul-01 11:07 Received: 10-Jul-01 08:35									
Purgeable Hydrocarbons	2500	1000	ug/l	20	1G10003	23-Jul-01	23-Jul-01	EPA 8015M/8020	P-04
Benzene	200	10	"	"	"	"	"	"	
Toluene	21	10	"	"	"	"	"	"	
Ethylbenzene	55	10	"	"	"	"	"	"	
Xylenes (total)	26	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	CC-3
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	70-130		"	"	"	"	



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
25-Jul-01 07:54

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W107124-02) Water Sampled: 09-Jul-01 10:25 Received: 10-Jul-01 08:35									
Ferrous Iron	ND	0.050	mg/l	1	1G09012	09-Jul-01	18-Jul-01	EPA 6010A	
MW-2 (W107124-03) Water Sampled: 09-Jul-01 11:07 Received: 10-Jul-01 08:35									
Ferrous Iron	0.44	0.050	mg/l	1	1G09012	09-Jul-01	18-Jul-01	EPA 6010A	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
25-Jul-01 07:54

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W107124-02) Water Sampled: 09-Jul-01 10:25 Received: 10-Jul-01 08:35									
Total Alkalinity	410	11	mg/l	10	1G17014	17-Jul-01	17-Jul-01	EPA 310.1	
MW-2 (W107124-03) Water Sampled: 09-Jul-01 11:07 Received: 10-Jul-01 08:35									
Total Alkalinity	600	11	mg/l	10	1G17014	17-Jul-01	17-Jul-01	EPA 310.1	



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported:
25-Jul-01 07:54

**Anions by EPA Method 300.0
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W107124-02) Water	Sampled: 09-Jul-01 10:25		Received: 10-Jul-01 08:35						
Sulfate as SO4	6.8	1.0	mg/l	10	1G16012	13-Jul-01	14-Jul-01	EPA 300.0	
MW-2 (W107124-03) Water	Sampled: 09-Jul-01 11:07		Received: 10-Jul-01 08:35						
Sulfate as SO4	9.3	1.0	mg/l	10	1G16012	13-Jul-01	14-Jul-01	EPA 300.0	



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 209339
Project Manager: Deanna L. Harding

Reported: ✓
25-Jul-01 07:54

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G10003 - EPA 5030B P/T										
Blank (1G10003-BLK1) Prepared & Analyzed: 11-Jul-01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	47.1		"	30.0		157	70-130			S-03
Blank (1G10003-BLK2) Prepared & Analyzed: 12-Jul-01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.0		"	30.0		93.3	70-130			
Blank (1G10003-BLK3) Prepared & Analyzed: 13-Jul-01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.5		"	30.0		98.3	70-130			
Blank (1G10003-BLK4) Prepared & Analyzed: 16-Jul-01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	33.4		"	30.0		111	70-130			



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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G10003 - EPA 5030B P/T

Blank (1G10003-BLK5)			Prepared & Analyzed: 17-Jul-01							
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	30.2		"	30.0		101	70-130			

Blank (1G10003-BLK6)			Prepared & Analyzed: 18-Jul-01							
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	25.2		"	30.0		84.0	70-130			

Blank (1G10003-BLK7)			Prepared & Analyzed: 23-Jul-01							
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	28.6		"	30.0		95.3	70-130			

LCS (1G10003-BS1)			Prepared & Analyzed: 11-Jul-01							
Benzene	23.3	0.50	ug/l	20.0		116	70-130			
Toluene	22.1	0.50	"	20.0		110	70-130			
Ethylbenzene	23.2	0.50	"	20.0		116	70-130			
Xylenes (total)	64.5	0.50	"	60.0		108	70-130			
Surrogate: a,a,a-Trifluorotoluene	32.1		"	30.0		107	70-130			



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Reported: ✓
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G10003 - EPA 5030B P/T

LCS (1G10003-BS2)

Prepared & Analyzed: 12-Jul-01

Benzene	20.0	0.50	ug/l	20.0		100	70-130			
Toluene	19.8	0.50	"	20.0		99.0	70-130			
Ethylbenzene	20.0	0.50	"	20.0		100	70-130			
Xylenes (total)	57.5	0.50	"	60.0		95.8	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	27.6		"	30.0		92.0	70-130			

LCS (1G10003-BS3)

Prepared & Analyzed: 13-Jul-01

Benzene	21.5	0.50	ug/l	20.0		108	70-130			
Toluene	20.7	0.50	"	20.0		104	70-130			
Ethylbenzene	21.2	0.50	"	20.0		106	70-130			
Xylenes (total)	59.6	0.50	"	60.0		99.3	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	29.2		"	30.0		97.3	70-130			

LCS (1G10003-BS4)

Prepared & Analyzed: 16-Jul-01

Benzene	22.7	0.50	ug/l	20.0		114	70-130			
Toluene	21.5	0.50	"	20.0		108	70-130			
Ethylbenzene	22.5	0.50	"	20.0		112	70-130			
Xylenes (total)	63.6	0.50	"	60.0		106	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.5		"	30.0		102	70-130			

LCS (1G10003-BS5)

Prepared & Analyzed: 17-Jul-01

Benzene	21.5	0.50	ug/l	20.0		108	70-130			
Toluene	20.8	0.50	"	20.0		104	70-130			
Ethylbenzene	21.2	0.50	"	20.0		106	70-130			
Xylenes (total)	59.5	0.50	"	60.0		99.2	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	27.2		"	30.0		90.7	70-130			

LCS (1G10003-BS6)

Prepared & Analyzed: 18-Jul-01

Benzene	19.5	0.50	ug/l	20.0		97.5	70-130			
Toluene	19.0	0.50	"	20.0		95.0	70-130			
Ethylbenzene	19.3	0.50	"	20.0		96.5	70-130			
Xylenes (total)	54.5	0.50	"	60.0		90.8	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	28.2		"	30.0		94.0	70-130			



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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G10003 - EPA 5030B P/T

LCS (1G10003-BS7)

Prepared & Analyzed: 23-Jul-01

Benzene	21.5	0.50	ug/l	20.0		108	70-130			
Toluene	20.1	0.50	"	20.0		100	70-130			
Ethylbenzene	21.2	0.50	"	20.0		106	70-130			
Xylenes (total)	59.1	0.50	"	60.0		98.5	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.1		"	30.0		100	70-130			

Matrix Spike (1G10003-MS1)

Source: W107121-02

Prepared: 11-Jul-01 Analyzed: 20-Jul-01

Benzene	20.4	0.50	ug/l	20.0	ND	102	70-130			
Toluene	19.4	0.50	"	20.0	ND	97.0	70-130			
Ethylbenzene	20.5	0.50	"	20.0	ND	102	70-130			
Xylenes (total)	56.6	0.50	"	60.0	ND	94.3	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	27.5		"	30.0		91.7	70-130			

Matrix Spike Dup (1G10003-MSD1)

Source: W107121-02

Prepared: 11-Jul-01 Analyzed: 20-Jul-01

Benzene	19.6	0.50	ug/l	20.0	ND	98.0	70-130	4.00	20	
Toluene	18.5	0.50	"	20.0	ND	92.5	70-130	4.75	20	
Ethylbenzene	19.6	0.50	"	20.0	ND	98.0	70-130	4.49	20	
Xylenes (total)	54.3	0.50	"	60.0	ND	90.5	70-130	4.15	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	25.9		"	30.0		86.3	70-130			



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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G09012 - 200.7										
Blank (1G09012-BLK1)										
				Prepared: 09-Jul-01 Analyzed: 18-Jul-01						
Ferrous Iron	ND	0.050	mg/l							
LCS (1G09012-BS1)										
				Prepared: 09-Jul-01 Analyzed: 18-Jul-01						
Ferrous Iron	1.20	0.050	mg/l	1.00		120	80-120			
LCS Dup (1G09012-BSD1)										
				Prepared: 09-Jul-01 Analyzed: 18-Jul-01						
Ferrous Iron	1.20	0.050	mg/l	1.00		120	80-120	0.00	20	
Matrix Spike (1G09012-MS1)										
				Source: W107070-04		Prepared: 09-Jul-01 Analyzed: 18-Jul-01				
Ferrous Iron	1.07	0.050	mg/l	1.00	0.19	88.0	80-120			
Matrix Spike Dup (1G09012-MSD1)										
				Source: W107070-04		Prepared: 09-Jul-01 Analyzed: 18-Jul-01				
Ferrous Iron	1.16	0.050	mg/l	1.00	0.19	97.0	80-120	8.07	20	



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Reported:
25-Jul-01 07:54

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G17014 - General Preparation										
Blank (1G17014-BLK1)										
				Prepared & Analyzed: 17-Jul-01						
Total Alkalinity	ND	1.1	mg/l							
LCS (1G17014-BS1)										
				Prepared & Analyzed: 17-Jul-01						
Total Alkalinity	98.0	1.1	mg/l	100		98.0	80-120			
Matrix Spike (1G17014-MS1)										
				Source: W107141-01		Prepared & Analyzed: 17-Jul-01				
Total Alkalinity	1440	11	mg/l	1000	470	97.0	75-125			
Matrix Spike Dup (1G17014-MSD1)										
				Source: W107141-01		Prepared & Analyzed: 17-Jul-01				
Total Alkalinity	1450	11	mg/l	1000	470	98.0	75-125	0.692	20	



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**Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G16012 - General Preparation										
Blank (1G16012-BLK2) Prepared: 13-Jul-01 Analyzed: 14-Jul-01										
Sulfate as SO4	ND	0.10	mg/l							
LCS (1G16012-BS2) Prepared: 13-Jul-01 Analyzed: 14-Jul-01										
Sulfate as SO4	8.55	0.10	mg/l	10.0		85.5	80-120			
Matrix Spike (1G16012-MS2) Source: W107207-01 Prepared: 13-Jul-01 Analyzed: 14-Jul-01										
Sulfate as SO4	528	10	mg/l	500	110	83.6	75-125			
Matrix Spike Dup (1G16012-MSD2) Source: W107207-01 Prepared: 13-Jul-01 Analyzed: 14-Jul-01										
Sulfate as SO4	530	10	mg/l	500	110	84.0	75-125	0.378	20	



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Reported:
25-Jul-01 07:54

Notes and Definitions

- CC-3 Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
- P-04 Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
- S-03 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference