20256

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

JUN 15 2001

May 9, 2001

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1153 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: *First Semi-Annual Event of March 27, 2001*
Groundwater Monitoring and Sampling Report
Chevron Service Station No. 9-1740
6550 ~~9550~~ Moraga Avenue
Oakland, California
Delta Project No. DG91-740

Dear Ms. Hugo:

Attached for your review and comment is a letter report entitled *First Semi-Annual Event of March 27, 2001 Groundwater Monitoring and Sampling Report* for the above referenced site. This report was prepared by Delta Environmental Consultants, Inc. / Gettler-Ryan, Inc and details the results of the March 2001 groundwater monitoring and sampling event.

If you have questions or comments regarding this report, please contact me at (916) 638-2765.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Jim Brownell
Portfolio Manager

JRB (1st Semi-annual 2001 QMR-9-1740.doc)
Enclosures

GETTLER-RYAN INC.

TRANSMITTAL

May 4, 2001
G-R #: 386507

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: Chevron Service Station
 # 9-1740
6550 ~~9550~~ **Moraga Avenue**
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	May 1, 2001	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of March 27, 2001

COMMENTS:

Enclosed are copies of the above referenced report for your review and distribution to the following:

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

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***May 17, 2001***, at which time the final report will be distributed to the following:

Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Mr. Eddie So, RWQCB-San Francisco Bay Region, 2101 Webster Street, Ste. 500, Oakland, CA 94612

Enclosures

trans/9-1740-BH

GETTLER-RYAN INC.

May 1, 2001
G-R Job #386507

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

RE: First Semi-Annual Event of March 27, 2001
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

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).

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. Dissolved Oxygen Concentrations are presented in Table 2. 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.

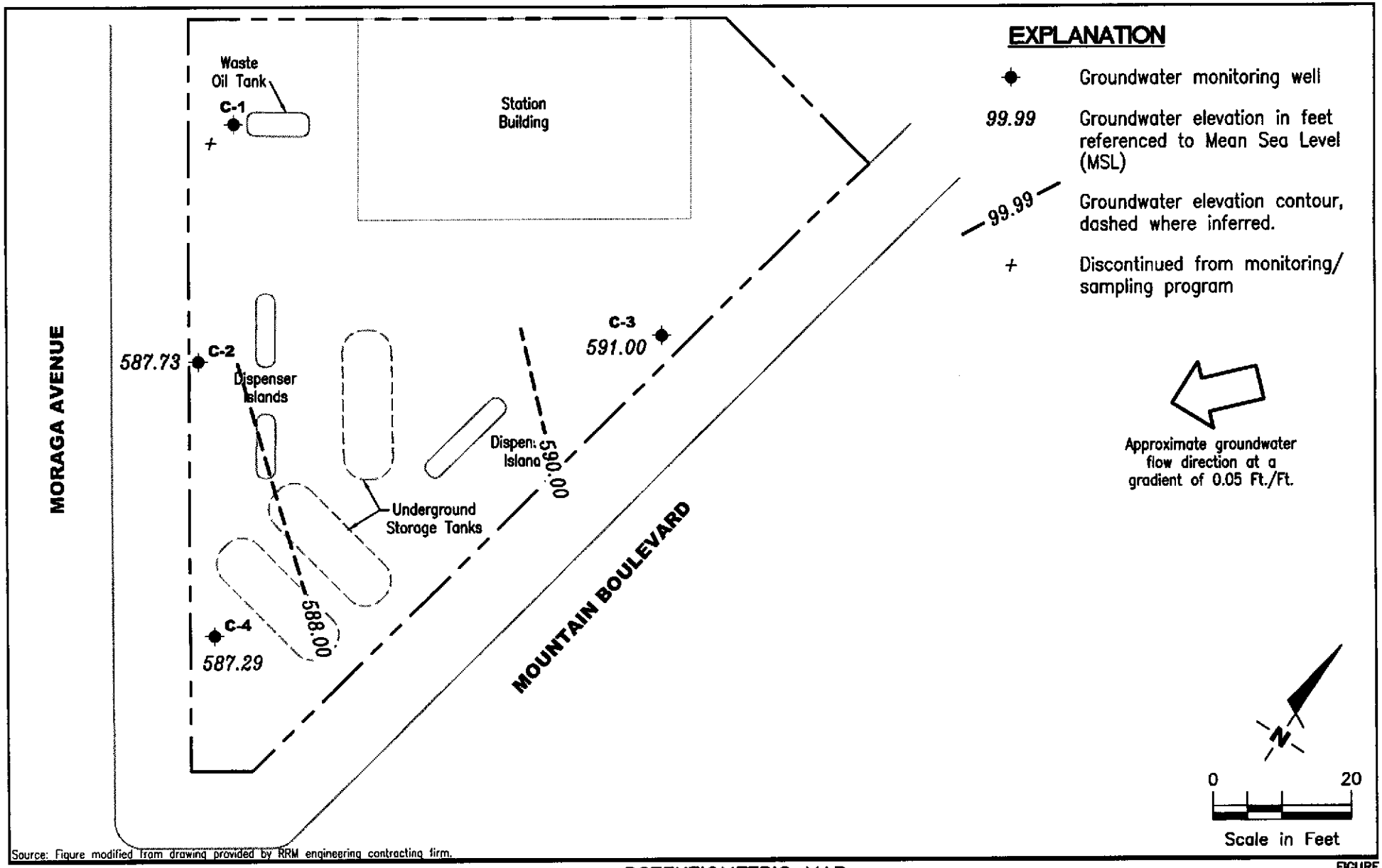
Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Dissolved Oxygen Concentrations
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

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

POTENTIOMETRIC MAP
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386507		March 27, 2001	

FILE NAME: P:\Enviro\Chevron\9-1740\Q01-9-1740.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-1										
03/25/91	595.82	592.54	3.28	--	54	0.7	<0.5	<0.5	2.0	--
07/01/91	595.82	592.39	3.43	--	730	250	3.0	16	4.8	--
09/25/91	595.82	591.67	4.15	--	160	68	1.3	6.1	1.3	--
12/23/91	595.82	592.11	3.71	--	170	70	1.6	3.5	2.4	--
03/24/92	595.82	592.80	3.02	--	60	39	4.4	3.9	9.1	--
06/23/92	595.82	592.06	3.76	--	60	19	1.1	1.1	1.0	--
NOT MONITORED/SAMPLED										
C-2										
03/25/91	594.57	571.68	22.89	--	<50	1.0	<0.5	<0.5	2.0	--
07/01/91	594.57	587.20	7.37	--	660	190	2.5	28	22	--
09/25/91	594.57	587.59	6.98	--	110	200	1.9	21	1.7	--
12/23/91	594.57	589.56	5.01	--	<50	1.2	1.2	<0.5	1.8	--
03/24/92	594.57	577.30	17.27	--	100	5.9	7.9	4.0	14	--
06/23/92	594.57	590.75	3.82	--	190	45	4.5	9.5	10	--
09/30/92	594.57	580.56	14.01	--	240	99	2.3	11	6.1	--
12/16/92	594.57	580.05	14.52	--	280	160	6.2	7.4	5.0	--
03/30/93	594.57	583.49	11.08	--	110	21	<0.5	0.8	<1.5	--
06/10/93	594.57	583.08	11.49	--	180	53	2.6	8.0	5.8	--
09/02/93	594.57	580.49	14.08	--	51	18	0.8	4.4	<1.5	--
12/06/93	594.57	579.87	14.70	--	<50	20	1.3	2.7	<0.5	--
03/02/94	594.57	579.70	14.87	--	<50	9.9	1.6	<0.5	0.8	--
06/03/94	594.57	579.35	15.22	--	440	300	2.7	61	2.1	--
09/07/94	594.57	587.27	7.30	--	80	30	<0.5	1.6	<0.5	--
12/06/94	594.57	589.29	5.28	--	120	51	<0.5	4.7	<0.5	--
03/31/95	594.57	589.13	5.44	--	770	250	<5.0	74	<5.0	--
06/15/95	594.57	589.62	4.95	--	240	76	<1.0	26	<1.0	--
09/25/95	594.57	587.78	6.79	--	<50	1.2	<0.5	<0.5	<0.5	--
12/19/95	594.57	588.94	5.63	--	<250	23	<2.5	<2.5	<2.5	860
03/31/97	594.57	589.74	4.83	--	<500	48	<5.0	<5.0	<5.0	2,900

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-2 (cont)										
06/23/97	594.57	589.98	4.59	--	1200	240	<10	<10	<10	4,900
09/02/97	594.57	590.02	4.55	--	1400	340	<5.0	54	6.9	2,500
12/15/97	594.57	590.26	4.31	--	540	100	<2.5	8.7	<2.5	2,400
03/10/98	594.57	590.00	4.57	--	<500	<5.0	<5.0	<5.0	<5.0	3,000
06/16/98	594.57	589.99	4.58	--	120	6.6	<1.0	<1.0	<1.0	2,500
08/25/98	594.57	589.67	4.90	--	140	<0.5	<0.5	<0.5	<0.5	2,600
12/29/98	594.57	589.77	4.80	--	1830	17.7	<10.0	<10.0	14.9	4,600/4,890[1]
03/09/99	594.57	590.21	4.36	--	120	16	<1.0	<1.0	<1.0	3,400
06/23/99[2]	594.57	589.92	4.65	--	--	--	--	--	--	--
09/28/99	594.57	585.99	8.58	--	<50	<0.5	<0.5	<0.5	<0.5	1,250
02/29/00	594.57	586.59	7.98	--	122	<0.5	<0.5	<0.5	<0.5	249
08/29/00	594.57	587.52	7.05	0.00	<50	<0.50	<0.50	<0.50	<0.50	390
03/27/01	**594.57**	**587.73**	**6.84**	**0.00**	**<50.0**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**9.72**
C-3										
03/25/91	597.14	591.98	5.16	--	<50	<0.5	<0.5	<0.5	0.5	--
07/01/91	597.14	591.30	5.84	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	597.14	591.20	5.94	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	597.14	591.20	5.94	--	<50	1.0	<0.5	<0.5	1.5	--
03/24/92	597.14	592.37	4.77	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	597.14	591.47	5.67	--	<50	0.9	1.1	0.5	1.6	--
09/30/92	597.14	590.84	6.30	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	597.14	591.57	5.57	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	597.14	592.08	5.06	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	597.14	591.85	5.29	--	<50	0.6	1.9	0.6	3.5	--
09/02/93	597.14	591.22	5.92	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	597.14	591.38	5.76	--	<50	<0.5	0.6	<0.5	<0.5	--
03/02/94	597.14	591.97	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	597.14	591.74	5.40	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	597.14	591.14	6.00	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-3 (cont)										
12/06/94	597.14	591.95	5.19	--	<50	<0.5	0.8	<0.5	<0.5	--
03/31/95	597.14	592.04	5.10	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	597.14	591.78	5.36	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	597.14	591.04	6.10	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	597.14	591.46	5.68	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	597.14	590.65	6.49	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	597.14	590.63	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	597.14	591.07	6.07	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	597.14	590.86	6.28	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	597.14	590.89	6.25	--	<50	<0.5	<0.5	<0.5	<0.5	4
06/16/98	597.14	590.80	6.34	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	597.14	590.61	6.53	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	597.14	590.59	6.55	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	597.14	591.20	5.94	--	<50	<0.5	<0.5	<0.5	<0.5	3
09/28/99	597.14	590.26	6.88	--	SAMPLED ANNUALLY		--	--	--	--
02/29/00	597.14	591.56	5.58	--	<50	<0.5	<0.5	<0.5	<0.5	10
08/29/00	597.14	590.53	6.61	0.00	--	--	--	--	--	--
03/27/01	**597.14**	**591.00**	**6.14**	**0.00**	**264**	**<2.50**	**<2.50**	**<2.50**	**<2.50**	**870**
C-4										
03/25/91	593.10	588.65	4.45	--	2700	240	16	<0.5	350	--
07/01/91	593.10	587.77	5.33	--	7900	1500	230	340	350	--
09/25/91	593.10	587.60	5.50	--	3200	850	160	150	220	--
12/23/91	593.10	588.18	4.92	--	4100	390	52	42	340	--
03/24/92	593.10	589.06	4.19	0.19	--	--	--	--	--	--
06/23/92	593.10	588.43	4.91	0.30	--	--	--	--	--	--
09/30/92	593.10	584.44	8.66	--	450	97	14	12	29	--
12/16/92	593.10	583.30	9.80	--	590	130	18	5.6	29	--
03/30/93	593.10	583.20	10.00	0.12	--	--	--	--	--	--
06/10/93	593.10	583.46	9.64	--	1300	290	36	17	73	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
C-4 (cont)										
09/02/93	593.10	583.02	10.08	--	630	97	12	6.6	21	--
12/06/93	593.10	582.85	10.25	--	1900	600	68	27	130	--
03/02/94	593.10	584.36	8.74	--	2600	1200	110	43	180	--
06/03/94	593.10	583.27	9.83	--	780	180	13	8.5	26	--
09/07/94	593.10	582.80	10.30	--	<50	14	<0.5	0.7	<0.5	--
12/06/94	593.10	583.90	9.20	--	980	270	21	12	38	--
03/31/95	593.10	582.86	10.24	--	1500	450	25	11	49	--
06/15/95	593.10	582.78	10.32	--	960	250	15	4.5	37	--
09/25/95	593.10	584.72	8.38	--	<500	18	<5.0	<5.0	<5.0	--
12/19/95	593.10	582.94	10.16	--	<500	32	<5.0	<5.0	<5.0	2,400
03/31/97	593.10	588.42	4.68	--	3400	960	51	64	140	2,100
06/23/97	593.10	588.36	4.74	--	1600	580	19	8.2	27	2,300
09/02/97	593.10	588.33	4.77	--	6900	1400	59	130	410	3,100
12/15/97	593.10	588.60	4.50	--	3300	1200	37	74	130	3,700
03/10/98	593.10	588.92	4.18	--	1100	250	19	13	62	4,000
06/16/98	593.10	586.53	6.57	--	1200	350	<10	12	39	4,500
08/25/98	593.10	586.30	6.80	--	290	24	0.72	0.87	1.9	3,600
12/29/98	593.10	586.80	6.30	--	3190	957	<25	<25	<25	8,100/8,500[1]
03/09/99	593.10	585.87	7.23	--	2200	850	15	35	56	5,900
06/23/99[2]	593.10	585.60	7.50	--	--	--	--	--	--	--
09/28/99	593.10	586.15	6.95	--	1390	7.85	<5.0	<5.0	<5.0	4,190
02/29/00	593.10	586.09	7.01	--	<50	1.35	<0.5	<0.5	<0.5	310
08/29/00	593.10	586.58	6.52	0.00	150[3]	60	<0.50	0.79	0.78	570
03/27/01	**593.10**	**587.29**	**5.81**	**0.00**	**986**	**27.2**	**<2.50**	**3.25**	**4.11**	**252**
TRIP BLANK										
03/25/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK (cont)										
03/24/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/02/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/02/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/16/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/28/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/29/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/27/01	**--**	**--**	**--**	**--**	**<50.0**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<0.500**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 29, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

SPHT = Separate Phase Hydrocarbon Thickness

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

1 Confirmation run.

2 ORC installed.

3 Laboratory report indicates unidentified hydrocarbons C6-C12.

Table 2

Dissolved Oxygen Concentrations

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
C-2	08/29/00	1.97	--
	03/27/01	**3.6**	--
C-4	08/29/00	2.11	--
	03/27/01	**2.9**	--

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

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 # 9-1740 Job#: 386507
Address: 6550 Moraga Ave. Date: 3-27-01
City: Oakland, CA Sampler: J.C

Well ID C-7 Well Condition: O.K
Well Diameter 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 26.75 ft.
Depth to Water 6.84 ft.

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

19.91 X VF .17 = 3.3 X 3 (case volume) = Estimated Purge Volume: 10.0 (gal.)

Purge Equipment: ~~Disposable Bailer~~, Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 1115 Weather Conditions: Clear
Sampling Time: 1125 Water Color: Clear Odor: N
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1118	3.5	7.61	696	68.3	3.6		
1120	7.0	7.53	632	68.6			
1123	10.0	7.22	618	68.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-7	3 VOAVIAL	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Chevron
Facility # 9-1740 Job#: 386507
Address: 6550 Moraga Ave. Date: 3-27-01
City: Oakland, CA Sampler: T.C

Well ID C-3 Well Condition: O.K

Well Diameter 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 18.60 ft.

Depth to Water 6.14 ft.

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

12.46 X VF .17 = 2.1 X 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

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

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

Starting Time: 1000 Weather Conditions: Clear
Sampling Time: 1010 Water Color: Clear Odor: N
Purging Flow Rate: — gpm. Sediment Description: _____
Did well de-water? N If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1004	2.0	7.77	691	68.6			
1006	4.0	7.62	662	68.7			
1008	6.5	7.34	636	68.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-	VOA VIAL	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Chevron
Facility # 9-1740 Job#: 386507
Address: 6550 Moraga Ave. Date: 3-27-01
City: Oakland, CA Sampler: T.C.

Well ID C-4 Well Condition: O.K.
Well Diameter 2" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 24.65 ft.
Depth to Water 5.81 ft.

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

18.84 X VF .17 = 3.2 X 3 (case volume) = Estimated Purge Volume: 9.5 (gal.)

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

Starting Time: 12 40 Weather Conditions: Clear
Sampling Time: 12 50 Water Color: Clear Odor: N
Purging Flow Rate: — gpm. Sediment Description:
Did well de-water? N If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12 42	3.5	7.26	581	68.1	2.9		
12 44	7.0	7.18	572	68.1			
12 46	10.0	7.06	561	68.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-	VOAVIAL	Y	HCL	SEQUOIA	TPH(G)/btex/mtbe

COMMENTS:

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

Chain-of-Custody-Record

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

Chevron Facility Number: #9-1740
Facility Address: 6550 MORAGA AVE., OAKLAND, CA
Consultant Project Number: 386507
Consultant Name: GETTLER-RYAN INC.
Address: 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name): DEANNA L. HARDING
(Phone): 925-551-7555 (Fax Number): 925-551-7899

Chevron Contact (Name): MR. TOM BAUHS
(Phone): (925) 842-8898
Laboratory Name: SEQUOIA W10360
Laboratory Service Order:
Laboratory Service Code:
Samples Collected by (Name): Tony Camarena
Signature: Tony V. Camarena

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT IDAHO

Sample Number	Number of Containers	Matrix: S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS + 8015) 8020	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (TCAP or AA) CAM17 Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended						Remarks / Lab Sample No.
																							01A
TB-LB	1	W	HCL	3-27-01	X																		02A-C
C-2	3			1125	X																		03A-C
C-3				1110	X																		04A-C
C-4				1250	X																		

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Tony V. Camarena	G-R INC.	3-27-01 1700	Mark Collin	Sequoia	3/27/01 1545	
Mark Collin	Sequoia	3/27/01 1645	Mike Godin	Sequoia	3/27/01	1645
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N

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

Sequoia
Analytical

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

9 April, 2001

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

RE: Chevron
Sequoia Report: W103601

Enclosed are the results of analyses for samples received by the laboratory on 27-Mar-01 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-1740 Project Manager: Deanna L. Harding	**Reported:** 09-Apr-01 08:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W103601-01	Water	27-Mar-01 00:00	27-Mar-01 16:45
C-2	W103601-02	Water	27-Mar-01 13:25	27-Mar-01 16:45
C-3	W103601-03	Water	27-Mar-01 13:10	27-Mar-01 16:45
C-4	W103601-04	Water	27-Mar-01 12:50	27-Mar-01 16:45

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

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-1740	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Apr-01 08:12

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W103601-01) Water Sampled: 27-Mar-01 00:00 Received: 27-Mar-01 16:45									
Gasoline	ND	50.0	ug/l	1	1030524	30-Mar-01	02-Apr-01	EPA 8015M-VOA	
C-2 (W103601-02) Water Sampled: 27-Mar-01 13:25 Received: 27-Mar-01 16:45									
Gasoline	ND	50.0	ug/l	1	1030524	30-Mar-01	02-Apr-01	EPA 8015M-VOA	
C-3 (W103601-03) Water Sampled: 27-Mar-01 13:10 Received: 27-Mar-01 16:45									
Gasoline	**264**	250	ug/l	5	1030524	30-Mar-01	02-Apr-01	EPA 8015M-VOA	G12,T4
C-4 (W103601-04) Water Sampled: 27-Mar-01 12:50 Received: 27-Mar-01 16:45									
Gasoline	**986**	250	ug/l	5	1030524	30-Mar-01	02-Apr-01	EPA 8015M-VOA	G12,T4

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-1740	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Apr-01 08:12

BTEX+MTBE by EPA Method 8021B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W103601-01) Water Sampled: 27-Mar-01 00:00 Received: 27-Mar-01 16:45									**G15**
Benzene	ND	0.500	ug/l	1	1030524	30-Mar-01	02-Apr-01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-BFB		*87.0 %*	*86.0-142*		"	"	"	"	
C-2 (W103601-02) Water Sampled: 27-Mar-01 13:25 Received: 27-Mar-01 16:45									**G15**
Benzene	ND	0.500	ug/l	1	1030524	30-Mar-01	02-Apr-01	EPA 8021B	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**9.72**	0.500	"	"	"	"	"	"	
Surrogate: 4-BFB		*82.0 %*	*86.0-142*		"	"	"	"	*O4*
C-3 (W103601-03) Water Sampled: 27-Mar-01 13:10 Received: 27-Mar-01 16:45									**G12,G15**
Benzene	ND	2.50	ug/l	5	1030524	30-Mar-01	02-Apr-01	EPA 8021B	
Toluene	ND	2.50	"	"	"	"	"	"	
Ethylbenzene	ND	2.50	"	"	"	"	"	"	
Total Xylenes	ND	2.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**870**	2.50	"	"	"	"	"	"	
Surrogate: 4-BFB		*87.5 %*	*86.0-142*		"	"	"	"	
C-4 (W103601-04) Water Sampled: 27-Mar-01 12:50 Received: 27-Mar-01 16:45									**G12,G15**
Benzene	**27.2**	2.50	ug/l	5	1030524	30-Mar-01	02-Apr-01	EPA 8021B	
Toluene	ND	2.50	"	"	"	"	"	"	
Ethylbenzene	**3.25**	2.50	"	"	"	"	"	"	
Total Xylenes	**4.11**	2.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**252**	2.50	"	"	"	"	"	"	
Surrogate: 4-BFB		*84.5 %*	*86.0-142*		"	"	"	"	*O4*

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-1740	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Apr-01 08:12

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030524 - EPA 5030B (P/T)										
Blank (1030524-BLK1)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Gasoline	ND	50.0	ug/l							
LCS (1030524-BS2)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Gasoline	1780	50.0	ug/l	2000		89.0	80.0-120			
Matrix Spike (1030524-MS2)		Source: B103385-02		Prepared: 30-Mar-01 Analyzed: 03-Apr-01						
Gasoline	1900	50.0	ug/l	2000	ND	95.0	80.0-120			
Matrix Spike Dup (1030524-MSD2)		Source: B103385-02		Prepared: 30-Mar-01 Analyzed: 03-Apr-01						
Gasoline	1770	50.0	ug/l	2000	ND	88.5	80.0-120	7.08	20.0	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-1740 Project Manager: Deanna L. Harding	**Reported:** 09-Apr-01 08:12

BTEX+MTBE by EPA Method 8021B - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030524 - EPA 5030B (P/T)										
Blank (1030524-BLK1)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Benzene	ND	0.500	ug/l							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Total Xylenes	ND	0.500	"							
Methyl tert-butyl ether	ND	0.500	"							
Surrogate: 4-BFB	*17.5*		"	*20.0*		*87.5*	*86.0-142*			
LCS (1030524-BS1)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Benzene	25.2	0.500	ug/l	25.0		101	85.0-115			
Toluene	24.8	0.500	"	25.0		99.2	85.0-115			
Ethylbenzene	25.4	0.500	"	25.0		102	85.0-115			
Total Xylenes	74.0	0.500	"	75.0		98.7	85.0-115			
Methyl tert-butyl ether	27.2	0.500	"	25.0		109	85.0-115			
Surrogate: 4-BFB	*18.5*		"	*20.0*		*92.5*	*86.0-142*			
Matrix Spike (1030524-MS1)		**Source: B103385-02**		Prepared: 30-Mar-01 Analyzed: 03-Apr-01						
Benzene	27.9	0.500	ug/l	25.0	ND	112	74.3-134			
Toluene	27.4	0.500	"	25.0	ND	110	63.8-141			
Ethylbenzene	28.0	0.500	"	25.0	ND	112	64.3-140			
Total Xylenes	81.3	0.500	"	75.0	ND	108	67.6-143			
Methyl tert-butyl ether	34.9	0.500	"	25.0	1.95	132	67.2-157			
Surrogate: 4-BFB	*19.3*		"	*20.0*		*96.5*	*86.0-142*			
Matrix Spike Dup (1030524-MSD1)		**Source: B103385-02**		Prepared: 30-Mar-01 Analyzed: 03-Apr-01						
Benzene	21.7	0.500	ug/l	25.0	ND	86.8	74.3-134	25.4	21.1	
Toluene	21.0	0.500	"	25.0	ND	84.0	63.8-141	26.8	17.5	
Ethylbenzene	21.7	0.500	"	25.0	ND	86.8	64.3-140	25.4	17.5	
Total Xylenes	62.0	0.500	"	75.0	ND	82.7	67.6-143	26.5	17.6	
Methyl tert-butyl ether	23.9	0.500	"	25.0	1.95	87.8	67.2-157	40.2	27.9	
Surrogate: 4-BFB	*18.1*		"	*20.0*		*90.5*	*86.0-142*			

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-1740	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	09-Apr-01 08:12

Notes and Definitions

G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
T4	Gas Range
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