Chevron

December 21, 1995

Chevron U.S.A. Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing – Northwest Region
Phone 510 842 9500

Ms. Eva Chu
Alameda Co. Dept. of Environmental Health
1131 Harbor Bay Pkwy, 2nd Floor
Alameda, CA 94502-6577

Re : Former Chevron Service Station 9-7127
Interstate 580 & Grantline Rd.

Dear Ms. Chu :

The enclosed report from Gettler-Ryan dated December 20, 1995 documents the results of the November 15, 1995 monitoring and sampling event. In addition, the report documents the monthly water level measurements that were taken on September 7th and October 9th. Results show the water supply well containing non-detectable levels of total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylene (BTEX). Results on the remaining well show either non-detectable levels of TPH-G and BTEX (MW-2 and MW-5) or detectable levels which are consistent with the previous results.

In regards to the additional investigation, Pacific Environmental Group completed the installation of three additional wells (MW-6, MW-7, and MW-8). A copy of their report documenting their findings will be sent to your office for review. If you have any questions or comments, please give me a call at (510) 842-8752.

Sincerely,
Chevron U.S.A. Products Co.

① Repair well MW-5
② Why GW flow in all directions

Kenneth Kan
Engineer

LKAN/97127R04
Enclosure

cc : Person in Charge of Tracy (Alameda Co.)
RWQCB-Central Valley Region
3443 Routier Rd.
Sacramento, CA 95827-3098

William Carnazzo, M.D.
Carnazzo Land Company, Inc.
P.O. Box 6031
Atascadero, CA 93423

Mr. & Mrs. Joe Jess
Jess Ranch
Route 5, Box 704-A
Tracy, CA 95376

cc : Ms. Bette Owen
Chevron U.S.A. Products Co.

Mr. Mark Sullivan
Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Ms. Deanna Harding (w/o enclosure)
Gettler-Ryan, Inc.
6747 Sierra Court, Suite J
Dublin, CA 94568
Note: Also monitor and sample MW-6, MW-7, and MW-8 on your next visit.

GETTLER-RYAN INC.

December 20, 1995 Job #5251.80

Mr. Kenneth Kan
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Former Chevron Service Station #9-7127
Interstate 580 and Grant Line Road
Tracy, California

Dear Mr. Kan:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On November 15, 1995, field personnel were on-site to monitor five wells (MW-1 through MW-5) and sample six wells (MW-1 through MW-5 and a Supply Well) at the Former Chevron Service Station #9-7127 located at Interstate 580 and Grant Line Road in Tracy, California.

Static groundwater levels were measured on September 7, October 9, and November 15, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in well MW-1 during the October 9, 1995, visit. Static water level data and groundwater elevations are presented in Table 1. Potentiometric maps are included as Figures 1, 2 and 3.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

Deanna L. Harding for

Greg A. Gurss
Project Manager

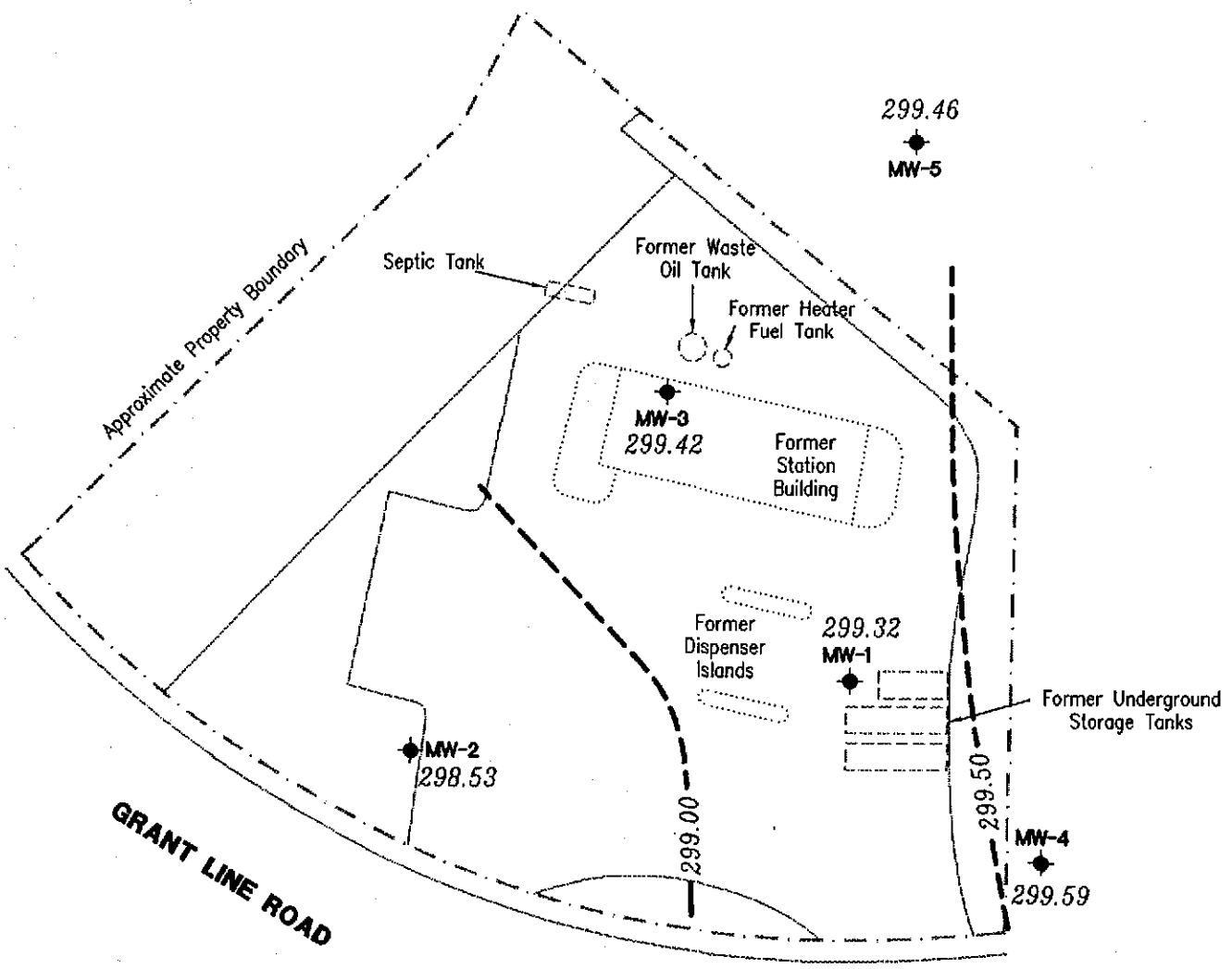
Penny L. Silzer

Penny L. Silzer
Senior Geologist, R.G. No. 5523

REGISTERED GEOLOGIST
Penny L. Silzer
No. 5523
STATE OF CALIFORNIA

GAG/PLS/dlh
5251.QML

Figure 1: Potentiometric Map - September 7, 1995
Figure 2: Potentiometric Map - October 9, 1995
Figure 3: Potentiometric Map - November 15, 1995
Table 1: Water Level Data and Groundwater Analytical Results
Attachments: Standard Operating Procedure - Quarterly Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.004 to 0.006 Ft./Ft.

N

0 50

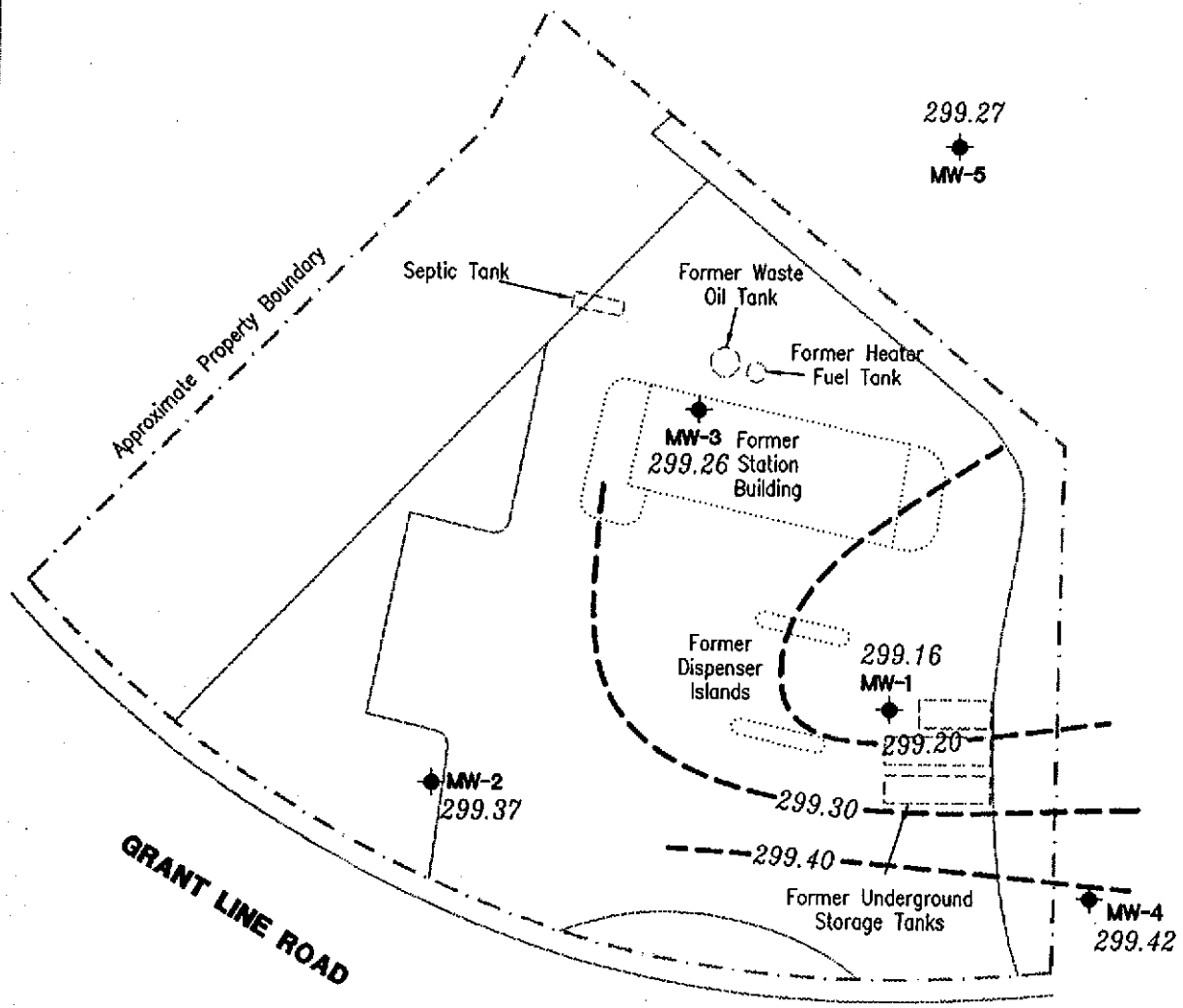
Scale in Feet

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251.85	PLS	September 7, 1995	



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.002 to 0.007 Ft./Ft.

N

0 50

Scale in Feet

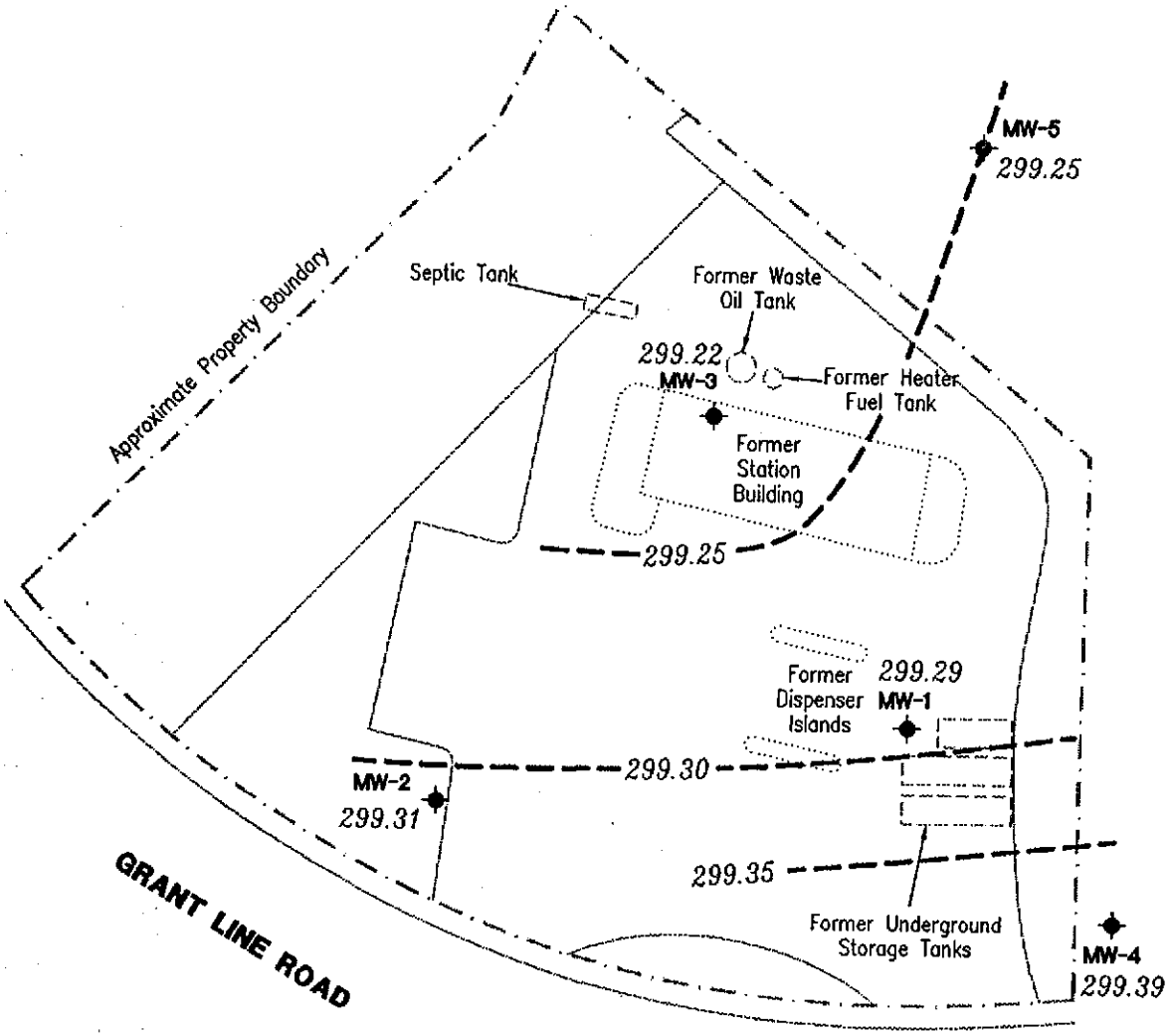
Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE **2**

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251.85	PLS	October 9, 1995	



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.001 to 0.002 Ft./Ft.

N

0 50

Scale in Feet

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE
3

JOB NUMBER
5251.85

REVIEWED BY
PLS

DATE
November 15, 1995

REVISED DATE

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-1/ 329.17	2/15/94	29.77	299.40	0	99,000	20,000	24,000	2,000	9,800	—
	4/21/94	29.85	299.32	0	—	—	—	—	—	—
	6/1/94	29.92	299.25	0	56,000	12,000	15,000	1,100	5,800	—
	6/28/94	30.15	299.02	0	—	—	—	—	—	—
	7/19/94	20.30	308.87	0	—	—	—	—	—	—
	9/2/94	30.61	298.96[1]	0.5	—	—	—	—	—	—
	9/12/94	31.66	298.04[1]	0.66	—	—	—	—	—	—
	10/12/94	31.70	298.70[1]	1.54	—	—	—	—	—	—
	11/30/94	29.95	299.84[1]	0.77	—	—	—	—	—	—
	3/9/95	29.54	299.88	0.31	—	—	—	—	—	—
	4/18/95	29.01	300.16	0	—	—	—	—	—	—
	5/17/95	29.09	300.08	0	130,000	22,000	30,000	2,000	10,000	—
	6/7/95	29.24	299.93	0	—	—	—	—	—	—
	7/21/95	29.66	299.51	0	—	—	—	—	—	—
	8/15/95	29.87	299.30	0	41,000	9,400	12,000	1,400	7,700	—
	9/7/95	**29.85**	**299.32**	**0**	—	—	—	—	—	—
	10/9/95	**30.01**	**299.16**	**0**	—	—	—	—	—	—
	11/15/95	**29.88**	**299.29**	**0**	**68,000**	**15,000**	**9,600**	**1,100**	**5,500**	**<2,000**
MW-2/ 327.22	2/15/94	27.09	300.13	0	83	21	6	1	3	—
	4/21/94	27.81	299.41	0	—	—	—	—	—	—
	6/1/94	27.98	299.24	0	<50	1.3	0.5	<0.5	<0.5	—
	6/28/94	28.17	299.05	0	—	—	—	—	—	—
	7/19/94	28.35	298.87	0	—	—	—	—	—	—
	9/2/94	28.52	298.70	0	82	13	16	3.6	14	—
	9/12/94	28.56	298.66	0	—	—	—	—	—	—
	10/12/94	28.62	298.60	0	—	—	—	—	—	—
	11/30/94	28.38	298.84	0	<50	3.6	4.5	1.0	4.5	—
	3/9/95	27.41	299.81	0	—	—	—	—	—	—
	4/18/95	26.79	300.43	0	—	—	—	—	—	—
	5/17/95	26.95	300.27	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/7/95	27.06	300.16	0	—	—	—	—	—	—
	7/21/95	27.47	299.75	0	—	—	—	—	—	—
	8/15/95	27.57	299.65	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/7/95	**28.69**	**298.53**	**0**	—	—	—	—	—	—
	10/9/95	**27.85**	**299.37**	**0**	—	—	—	—	—	—
	11/15/95	**27.91**	**299.31**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-3/										
329.28	2/15/94	29.87	299.41	0	23,000	11,000	1,700	540	1,000	—
	4/21/94	29.96	299.32	0	—	—	—	—	—	—
	6/1/94	30.11	299.17	0	27,000	12,000	2,600	600	2,200	—
	6/28/94	30.31	298.97	0	—	—	—	—	—	—
	7/19/94	30.50	298.78	0	—	—	—	—	—	—
	9/2/94	30.61	298.67	0	34,000	16,000	4,100	770	3,000	—
	9/12/94	30.65	298.63	0	—	—	—	—	—	—
	10/12/94	30.74	298.54	0	—	—	—	—	—	—
	11/30/94	30.44	298.84	0	33,000	16,000	3,000	740	2,400	—
	3/9/95	29.53	299.75	0	—	—	—	—	—	—
	4/18/95	28.97	300.31	0	—	—	—	—	—	—
	5/17/95	29.19	300.09	0	27,000	10,000	760	490	1,000	—
	6/7/95	29.24	300.04	0	—	—	—	—	—	—
	7/21/95	29.70	299.58	0	—	—	—	—	—	—
	8/15/95	29.78	299.50	0	39,000[3]	13,000	2,900	700	1,700	—
	9/7/95	**29.86**	**299.42**	**0**	—	—	—	—	—	—
	10/9/95	**30.02**	**299.26**	**0**	—	—	—	—	—	—
	11/15/95	**30.06**	**299.22**	**0**	**21,000**	**8,000**	**2,900**	**430**	**1,500**	**<1,000**
MW-4/	5/21/93	—	—	—	<50	12	2	<0.5	1	—
	11/5/93	—	—	—	300	56	10	0.8	3	—
329.44	2/15/94	29.90	299.54	0	260	47	12	2	4	—
	4/21/94	29.99	299.45	0	—	—	—	—	—	—
	6/1/94	30.14	299.30	0	860	200	23	2.8	9.6	—
	6/28/94	30.32	299.12	0	—	—	—	—	—	—
	7/19/94	30.50	298.94	0	—	—	—	—	—	—
	9/2/94	30.62	298.82	0	1,700	250	27	6.4	15	—
	9/12/94	30.69	298.75	0	—	—	—	—	—	—
	10/12/94	30.75	298.69	0	—	—	—	—	—	—
	11/30/94	30.51	298.93	0	830	350	29	8.1	22	—
	3/9/95	29.61	299.83	0	—	—	—	—	—	—
	4/18/95	29.08	300.36	0	—	—	—	—	—	—
	5/17/95	29.22	300.22	0	470	200	2.2	0.9	2.1	—
	6/7/95	29.27	300.17	0	—	—	—	—	—	—
	7/21/95	29.72	299.72	0	—	—	—	—	—	—
	8/15/95	29.77	299.67	0	100	4.2	0.8	<0.5	<0.5	—
	9/7/95	**29.85**	**299.59**	**0**	—	—	—	—	—	—
	10/9/95	**30.02**	**299.42**	**0**	—	—	—	—	—	—
	11/15/95	**30.05**	**299.39**	**0**	**270**	**94**	**9.4**	**0.77**	**4.3**	[illegible]

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-5	5/25/93	—	—	—	<50	<0.5	<0.5	<0.5	0.9	—
	11/5/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
312.88	2/15/94	25.10	287.78	0	<50	<0.5	1	<0.5	1	—
	4/21/94	13.21	299.67	0	—	—	—	—	—	—
	6/1/94	13.39	299.49	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/28/94	13.73	299.15	0	—	—	—	—	—	—
	7/19/94	13.80	299.08	0	—	—	—	—	—	—
	9/2/94	14.02	298.86	0	<50	3.2	1.8	<0.5	2.1	—
	9/12/94	14.03	298.85	0	—	—	—	—	—	—
	10/12/94	14.15	298.73	0	—	—	—	—	—	—
	11/30/94	13.91	298.97	0	<50[2]	<0.5[2]	<0.5[2]	<0.5[2]	<0.5[2]	—
	3/9/95	12.97	299.91	0	—	—	—	—	—	—
	4/18/95	12.48	300.40	0	—	—	—	—	—	—
	5/17/95	12.71	300.17	0	150	1.0	<0.5	<0.5	<0.5	—
	6/7/95	12.85	300.03	0	—	—	—	—	—	—
	7/21/95	13.30	299.58	0	—	—	—	—	—	—
	8/15/95	13.41	299.47	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/7/95	**13.42**	**299.46**	**0**	—	—	—	—	—	—
	10/9/95	**13.61**	**299.27**	**0**	—	—	—	—	—	—
	11/15/95	**13.63**	**299.25**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<5.0**
Supply Well	11/15/95	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0
Trip Blank										
TB-LB	2/15/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	6/1/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	9/2/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/30/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	5/17/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	8/15/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/15/95	—	—	—	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<5.0**
Bailer Blank										
BB	2/15/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl ether
ppb = Parts per billion
— = Not analyzed/Not applicable

ANALYTICAL METHODS:

TPH(G) = EPA Method 8015/5030
BTEX = EPA Method 8020
MTBE = EPA Method 8020

NOTES:

All top of casing elevations were surveyed by Tronoff Land Surveying, Davis, California on November 2, 1993.

Water level elevation data and laboratory analytic results prior to May 17, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

1 GWE corrected for the presence of free-phase hydrocarbons using: GWE = [(TOC-DTW) + (0.8)(Product Thickness)]. 0.8 is the assumed specific gravity of free-phase hydrocarbons.

2 Estimated concentration. TFT surrogate recovery demonstrated sample specific matrix effect. Benzene and Toluene are estimated values due to low recovery of (TFT) surrogate. The (BFB) surrogate had acceptable recovery. Low surrogate recovery can be attributed to sample effervescence (GTEL).

3 Laboratory reported data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.

STANDARD OPERATING PROCEDURE
QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan 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 pevention 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 a MMC flexi-dip 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 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 analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 11-15-95

ADDRESS: I-580 @ Grant Line Rd | JOB #: 525185

CITY: Altamont Pass CA | SS#: 9-7127

Well ID: MW-1 | Well Condition: Okay

Well Location Description:

Well Diameter: 4" in | Hydrocarbon Thickness: 0

Total Depth: 39.58 ft

Depth to Liquid: 29.58 ft

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

# of casing Volume: 3x 9.70 x 0.66 x(VF) 6.4 #Estimated purge Volume: 19.2 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

Did well dewater: NO | If yes, Time: ___ | Volume:

Starting Time: 12:25 | Purging Flow Rate: 1.6 gpm.

Sampling Time: 12:41

Time	pH	Conductivity	Temperature	Volume
12:29	6.88	679	20.9	6.4
12:33	6.92	708	21.0	12.8
12:37	6.98	702	21.1	19.2
12:41	6.95	705	21.0	26.0

Weather Conditions: Sunny clear.

Water Color: Clear | Odor: Mild

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-1	3 x 40ml VOA	Y	HCL	CoTEL	Gas BTXE-MTB

Comments:

Supply Well 12:38 7.47 635 20.3

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 11-14-95

ADDRESS: 7-SEC @ Grant Line Rd | JOB #: 525185

CITY: Altamont Pass CA | SS#: 9-7127

Well ID: MW-2 | Well Condition: Clay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 38.3 ft

Depth to Liquid: 27.91 ft

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

# of casing Volume: 3X 10.39 x 0.17 x(VF) 1.8 #Estimated purge Volume: 5.4 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

Did well dewater: N/C | If yes, Time: ___ | Volume:

Starting Time: 11:44 | Purging Flow Rate: 1 gpm.

Sampling Time: 11:53

Time	pH	Conductivity	Temperature	Volume
11:46	7.17	601	22.3	2
11:48	7.00	594	21.6	4
11:50	6.99	593	21.6	6
11:53	7.00	594	21.7	7

Weather Conditions: Sunny clear.

Water Color: Clear | Odor: No

Sediment Description: No

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2	3x40ml VOA	Y	HCL	CTEL	Gas BTXE-MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline
DATE: 11-14-95

ADDRESS: I-580 @ Grant Line Rd
JOB #: 525185

CITY: Altamont Pass CA
SS#: 9-7127

Well ID: MW-3
Well Condition: okay

Well Location Description:

Well Diameter: 2" in
Hydrocarbon Thickness: 0

Total Depth: 40.12 ft
Depth to Liquid: 30.06 ft

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

# of casing Volume: 3X 10.06 x 0.17 x(VF) 1.7 #Estimated purge Volume: 5.2 gal.

Purge Equipment: Stack
Sampling Equipment: Bailer

Did well dewater: NC
If yes, Time: ___ Volume:

Starting Time: 12:13
Sampling Time: 12:22

Purging Flow Rate: 2 gpm.

Time	pH	Conductivity	Temperature	Volume
12:15	6.83	661	20.0	2
12:17	6.70	634	21.6	4
12:19	6.67	635	21.5	6
12:22	6.68	634	21.6	7

Weather Conditions: Sunny clear.
Water Color: Clear
Odor: Mild
Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-3	3x40ml VOA	Y	HCL	CTEL	602 BTXE-MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 11-14-95

ADDRESS: I-580 @ Grant Line Rd | JOB #: 525185

CITY: Altamont Pass CA | SS#: 9-7127

Well ID: MW-4 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: --

Total Depth: 40.32 ft

Depth to Liquid: 30.05 ft

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

# of casing Volume: 3X 10.27 x 0.17 x(VF) 1.75 #Estimated purge Volume: 5.25 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

Did well dewater: No | If yes, Time: -- | Volume:

Starting Time: 11:54 | Purging Flow Rate: 1 gpm gpm.

Sampling Time: 1200

Time	pH	Conductivity	Temperature	Volume
1201	7.00	621	24.3	2
1203	6.95	712	22.2	4
1205	7.05 6.95	705	22.2	6
1210	7.03 6.96	710	22.2	7

Weather Conditions: Sunny clear.

Water Color: Clear | Odor: Non

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-4	3x40ml VOA	Y	HCL	CTEL	Gas BTXE MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline | DATE 11-14-95

ADDRESS I-580 @ Grant Line Rd | JOB # 525185

CITY Altamont Pass CA | SS# 9-7127

Well ID MW-5 | Well Condition Clay

Well Location Description Ground has sunk around well, Cement slab exposed

Well Diameter 2" in | Hydrocarbon Thickness

Total Depth 28.12 ft

Depth to Liquid 13.63 ft

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

# of casing Volume 3X 14.49 x 0.12 x(VF) 2.46 #Estimated purge Volume 7.39 gal.

Purge Equipment Suction | Sampling Equipment Bailer

Did well dewater NC | If yes, Time ___ | Volume ___

Starting Time 1107 | Purging Flow Rate 1.25 gpm.

Sampling Time ___

Time	pH	Conductivity	Temperature	Volume
11:09	8.16	793	21.6	2.5
11:11	8.00	791	19.6	5.0
11:13	7.93	789	19.2	7.5
11:16	7.93	790	19.4	8.0

Weather Conditions Sunny clear.

Water Color: clear | Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-5	3x40ml VOA	Y	HCL	CTEL	Gas BTXE-MTBE

Comments ___

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 11-15-95

ADDRESS: I-580 @ Grant Line Rd | JOB #: 525.85

CITY: Altamont Pass CA | SS#: 9-7127

Well ID: Supply Well | Well Condition:

Well Location Description:

Well Diameter: in | Hydrocarbon Thickness:

Total Depth: ft

Depth to Liquid: ft

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

# of casing Volume: ____ x ____ x(VF) ____ = #Estimated purge Volume: ____ gal.

Purge Equipment: Dedicated | Sampling Equipment: Grab

Did well dewater: | If yes, Time: | Volume:

Starting Time: | Purging Flow Rate: gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
12:38	7.47	635	20.3	

Weather Conditions:

Water Color: | Odor:

Sediment Description:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis

Comments: Well Feed Cattle water trough.

Grab sample from tank outlet

Unable to ~~drill~~ directly sample well head.

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

Chain-of-Custody-Record

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

Chevron Facility Number: 9-7127
Facility Address: 2-580 @ Covant Line Rd
Consultant Project Number: ~~5245~~ 525.185 Altamont Pass
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): Deanna Harding
(Phone): 510 551-7555 (Fax Number): 510 551-7888

Chevron Contact (Name): Kenneth Can
(Phone): 842 8752
Laboratory Name: GTEL
Laboratory Release Number: 3452040
Samples Collected by (Name): FRANK CLINE
Collection Date: 11-15-95
Signature:

Sample Number	Lab 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) MTBE	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)	MTBE by 8020				DO NOT BILL TB-LB ANALYSIS Remarks
TB-LB	1901	2	W	G	—	HCL		X								X				
MW-5	1902	3			1116			X								X				
MW-2	1903				1153			X								X				
MW-4	1904				1210			X								X				
MW-3	1905				1222			X								X				
MW-1	1906				1241			X								X				
Supply Well	1907	3	W	G	1238	HCL		X								X				
	1908																			
	1909																			
	1910																			
	1911																			2
	1912																			Seal Intact

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R	11-16-95	Deanna Harding	G-R	11/16/95 8:30 a.m.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Deanna Harding	G-R	11/16/95 11:25	Joe Weber	GTEL	11/16/95 11:25
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
Joe Weber	GTEL	11/16/95 16:00			11-18-95 08 30

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

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

Project ID (Name): 5251.85
Chevron SS #9-7127
I-580 @ Grant Line Rd.
Altamont Pass, CA
Work Order Number: W5-11-0401

December 1, 1995

Deanna Harding
Gettler-Ryan
6747 Sierra Ct.
Suite J
Dublin, CA 94568

Dear Deanna Harding:

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories on 11-18-95 under your chain-of-custody record.

A formal quality control/quality assurance program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of California Health Services under Certification Number 1845.

If you have any questions concerning this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

Justin Ward, Project Coordinator for
Terry R. Loucks
Laboratory Director

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

GTEL	Client Project ID:	W5-11-0401	Sampled: Nov 15, 1995
4080 Pike Lane, Ste. C	Sample Matrix:	Water	Received: Nov 22, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Nov 30, 1995
Attention: Justin Ward	First Sample #:	511-1930	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 511-1930 TBLB	Sample I.D. 511-1931 MW-5	Sample I.D. 511-1932 MW-2	Sample I.D. 511-1933 MW-4	Sample I.D. 511-1934 MW-3	Sample I.D. 511-1935 MW-1
QC Batch Number:		GC112995 802009A	GC112895 802002A	GC112895 802002A	GC112995 802009A	GC112995 802009A	GC112895 802002A
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	270	21,000	68,000
Benzene	0.50	N.D.	N.D.	N.D.	94	8,000	15,000
Toluene	0.50	N.D.	N.D.	N.D.	9.4	2,900	9,600
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	0.77	430	1,100
Total Xylenes	0.50	N.D.	N.D.	N.D.	4.3	1,500	5,500
Chromatogram Pattern:		--	--	--	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	2.0	200	400
Date Analyzed:	11/29/95	11/28/95	11/28/95	11/29/95	11/29/95	11/28/95
Instrument Identification:	HP-9	HP-2	HP-2	HP-9	HP-9	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	91	92	95	86	97	103

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

GTEL	Client Project ID:	W5-11-0401	Sampled: Nov 15, 1995
4080 Pike Lane, Ste. C	Sample Matrix:	Water	Received: Nov 22, 1995
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Nov 30, 1995
Attention: Justin Ward	First Sample #:	511-1936	

QC Batch Number: GC112895

802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 511-1936 Supply Well
Purgeable Hydrocarbons	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Total Xylenes	0.50	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	11/28/95
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	95

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

GTEL	Client Project ID:	W5-11-0401	Sampled: Nov 15, 1995
4080 Pike Lane, Ste. C	Sample Descript:	Water	Received: Nov 22, 1995
Concord, CA 94520	Analysis for:	MTBE (Modified EPA 8020)	
Attention: Justin Ward	First Sample #:	511-1930	Analyzed: Nov 28-29,1995
			Reported: Nov 30, 1995

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L	QC Batch Number	Instrument ID
511-1930	TBLB	5.0	N.D.	GC112995802009A	HP-9
511-1931	MW-5	5.0	N.D.	GC112895802002A	HP-2
511-1932	MW-2	5.0	N.D.	GC112895802002A	HP-2
511-1933	MW-4	10	27	GC112995802009A	HP-9
511-1934	MW-3	1,000	N.D.	GC112995802009A	HP-9
511-1935	MW-1	2,000	N.D.	GC112895802002A	HP-2
511-1936	Supply Well	5.0	N.D.	GC112895802002A	HP-2

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

GTEL
4080 Pike Lane, Ste. C
Concord, CA 94520
Attention: Justin Ward

Client Project ID: W5-11-0401
Matrix: Liquid
QC Sample Group: 5111930-936

Reported: Nov 30, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC112995 802009A	GC112995 802009A	GC112995 802009A	GC112995 802009A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD #:	5112249	5112249	5112249	5112249
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/29/95	11/29/95	11/29/95	11/29/95
Analyzed Date:	11/29/95	11/29/95	11/29/95	11/29/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	21	22	22	72
MS % Recovery:	105	110	110	120
Dup. Result:	21	22	21	71
MSD % Recov.:	105	110	105	118
RPD:	0.0	0.0	4.7	1.4
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	4LCS112995	4LCS112995	4LCS112995	4LCS112995
Prepared Date:	11/29/95	11/29/95	11/29/95	11/29/95
Analyzed Date:	11/29/95	11/29/95	11/29/95	11/29/95
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	18	18	18	60
LCS % Recov.:	88	90	90	99

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

GTEL
4080 Pike Lane, Ste. C
Concord, CA 94520
Attention: Justin Ward

Client Project ID: W5-11-0401
Matrix: Liquid
QC Sample Group: 5111930-936

Reported: Nov 30, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC112895	GC112895	GC112895	GC112895
	802002A	802002A	802002A	802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD #:	5111927	5111927	5111927	5111927
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/28/95	11/28/95	11/28/95	11/28/95
Analyzed Date:	11/28/95	11/28/95	11/28/95	11/28/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	22	21	22	65
MS % Recovery:	110	105	110	108
Dup. Result:	23	22	23	69
MSD % Recov.:	115	110	115	115
RPD:	4.4	4.7	4.4	6.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	1LCS112895	1LCS112895	1LCS112895	1LCS112895
Prepared Date:	11/28/95	11/28/95	11/28/95	11/28/95
Analyzed Date:	11/28/95	11/28/95	11/28/95	11/28/95
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	19	20	60
LCS % Recov.:	94	96	99	99

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference