

ENVIRONMENTAL
PROTECTION
97 APR 15 AM 8:14



April 10, 1997

Ms. Juliet Shin
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing – Sales West
Phone 510 842-9500

Re: Former Chevron Service Station #9-5630
997 Grant Avenue, San Lorenzo, California

Dear Ms. Shin:

Enclosed is the First Quarter Groundwater Monitoring Report for 1997, that was prepared by our Blaine Tech Services Inc. for the above noted site. Ground water samples were collected and analyzed for TPH-g, BTEX and MtBE constituents.

Monitoring wells C-1, C-2, C-3 and C-5 were below method detection limits for all constituents this sampling event. Well C-6 was below method detection limits for the TPH-g, benzene, toluene and xylene constituents, while well C-7 was below the method detection limits for the TPH-g and BTEX constituents. The highest MtBE concentration detected was in monitoring well C-7 at 5.0 ppb.

Depth to ground water varied from 6.13 feet to 8.14 feet below grade with a direction of flow southwesterly.

Based on this sampling event and the previous sampling results, this site appears to be a low risk groundwater case and Chevron requests that it be closed and the monitoring wells abandoned. The source leak has been removed and the site has been characterized in that any dissolved hydrocarbons are not migrating. No aquifers or drinking water sources appear to be impacted and the site does not appear to be a significant risk to human health or to the environment. A Health Risk Evaluation has also been done on this site and the conclusions support, that there is no significant threat to human health. Your department concurred in this analysis in your letter dated September 13, 1996.

Prior to receiving final closer, Chevron requests at this time that sampling for monitoring wells C-1, C-5 and C-7 be immediately discontinued, since they have not detected any concentrations of TPH-g and BTEX constituents in the last seven sampling events. Chevron will continue to monitor the remaining wells quarterly until approval is received for closer. If you have any questions, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY


Philip R. Briggs
Site Assessment and Remediation Manager

Enclosure

April 10, 1997
Ms. Juliet Shin
Former Chevron Service Station # 9-5630
Page 2

cc. Ms. Bette Owen, Chevron

Mr. Walter Baumann Jr.
7104 SW Canyon Lane
Portland, OR 97224

Mr. Michael Meniktas
Meniktas & Associates
3440 Lakeshore Avenue, Suite 206
Oakland, CA 94610

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

ENVIRONMENTAL
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Phil Briggs
Chevron U.S.A. Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

1st Quarter 1997 Monitoring at 9-5630

First Quarter 1997 Groundwater Monitoring at
Chevron Service Station Number 9-5630
997 Grant Avenue
San Lorenzo, CA

Monitoring Performed on March 12, 1997

Groundwater Sampling Report 970312-K-2

This report covers the routine quarterly monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table

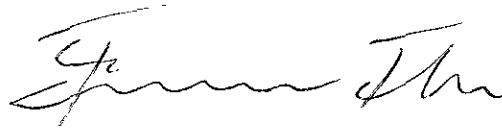
also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in cursive script, appearing to read "Francis Thie".

Francis Thie
Vice President

FPT/cg

attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix

Table of Well Data and Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
C-1											
12/05/90	24.08	11.64	12.44	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--
09/06/91	23.88	10.68	13.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	23.88	12.17	11.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	23.88	14.45	9.43	--	<50	<0.5	<0.5	<0.5	<0.5	<5000	--
06/03/92	23.88	13.74	10.14	--	<50	1.4	1.5	0.6	3.0	--	--
09/02/92	23.88	12.09	11.79	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/01/92	23.88	12.10	11.78	--	<50	0.6	3.5	0.7	3.4	--	--
03/23/93	23.88	15.94	7.94	--	200	13	8.7	<0.5	10	--	--
06/15/93	23.88	14.49	9.39	--	74	1.4	5.2	1.6	11	--	--
09/07/93	23.88	13.16	10.72	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	23.88	14.80	9.08	--	--	--	--	--	--	--	--
02/01/95	23.88	16.57	7.31	--	--	--	--	--	--	--	--
09/13/95	23.88	13.86	10.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	23.88	14.88	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
03/08/96	23.88	16.81	7.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	23.88	15.13	8.75	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
09/12/96	23.88	13.39	10.49	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/16/96	23.88	14.21	9.67	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
03/12/97	23.88	15.74	8.14	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	TOG	MTBE
C-2											
12/05/90	22.69	11.39	11.30	--	<50	0.7	<0.5	<0.5	0.5	--	--
09/06/91	21.54	10.54	11.00	--	<50	1.3	0.6	0.7	1.5	--	--
12/04/91	21.54	12.16	9.38	--	--	--	--	--	--	--	--
04/02/92	21.54	14.21	7.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	21.54	12.55	8.99	--	180	12	13	7.9	21	--	--
09/02/92	21.54	11.95	9.59	--	630	14	30	18	54	--	--
12/01/92	21.54	11.96	9.58	--	1000	47	83	51	150	--	--
03/23/93	21.54	15.24	6.30	--	80	5.0	7.9	6.0	18	--	--
06/15/93	21.54	14.27	7.27	--	220	9.0	16	12	37	--	--
09/07/93	21.54	12.99	8.55	--	200	13	21	15	43	--	--
09/13/95	21.54	7.86	13.68	--	<50	<0.5	0.60	0.84	2.3	--	--
12/29/95	21.54	14.52	7.02	--	<50	2.7	<0.5	<0.5	<0.5	--	<2.5
03/08/96	21.54	16.08	5.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	21.54	15.00	6.54	--	<50	<0.5	<0.5	0.99	2.5	--	<2.5
09/12/96	21.54	13.18	8.36	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/16/96	21.54	13.48	8.06	--	250	13	1.7	3.8	33	--	<2.5
03/12/97	21.54	15.04	6.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
C-3											
12/05/90	23.45	11.70	11.75	--	<50	1.0	0.7	<0.5	<0.5	--	--
09/06/91	22.40	10.78	11.62	--	1100	150	0.6	51	1.9	--	--
12/04/91	22.40	12.26	10.14	--	89	<0.5	<0.5	0.7	0.6	--	--
04/02/92	22.40	14.33	8.07	--	60	2.1	1.3	1.1	3.2	--	--
06/03/92	22.40	13.77	8.63	--	7600	94	86	26	89	--	--
09/02/92	22.40	12.10	10.30	--	<50	<0.5	<0.5	<0.5	0.9	--	--
12/01/92	22.40	12.16	10.24	--	54	0.8	5.7	1.1	5.9	--	--
03/23/93	22.40	15.57	6.83	--	<50	1.1	1.4	<0.5	1.7	--	--
06/15/93	22.40	14.45	7.95	--	67	1.3	3.9	1.1	7.8	--	--
09/07/93	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
09/13/95	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
12/29/95	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
03/08/96	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
06/12/96	22.40	--	--	Inaccessible	--	--	--	--	--	--	--
09/12/96	22.40	13.34	9.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/16/96	22.40	13.56	8.84	--	220	9.7	<0.5	<0.5	22	--	<2.5
03/12/97	22.40	15.28	7.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
C-4											
12/05/90	23.32	11.47	11.85	--	<50	4.0	2.0	0.7	3.0	--	--
09/06/91	--	--	--	Well destroyed	--	--	--	--	--	--	--
C-5											
02/16/93	22.01	15.37	6.64	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	22.01	15.41	6.60	--	<50	<1.5	0.9	<0.5	<1.5	--	--
06/15/93	22.01	13.91	8.10	--	70	0.7	1.7	<0.5	2.8	--	--
09/07/93	22.01	12.61	9.40	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	22.01	14.25	7.76	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	22.01	15.94	6.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	22.01	13.29	8.72	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	22.01	14.31	7.70	--	<50	<0.5	<0.5	<0.5	<0.5	--	7.3
03/08/96	22.01	16.14	5.87	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	22.01	15.33	6.68	--	<50	<0.5	<0.5	<0.5	<0.5	--	5.7
09/12/96	22.01	12.73	9.28	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/16/96	22.01	13.90	8.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	3.8
03/12/97	22.01	15.08	6.93	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
C-6											
08/17/94	21.42	5.40	16.02	--	430	0.7	2.7	<0.5	28	--	--
11/30/94	21.42	14.16	7.26	--	610	2.1	0.57	30	14	--	--
02/01/95	21.42	14.77	6.65	--	210	<0.5	<0.5	<0.5	0.94	--	--
09/13/95	21.42	13.64	7.78	--	860	4.6	<0.5	40	0.52	--	--
12/29/95	21.42	14.63	6.79	--	1900	7.4	<2.5	86	<2.5	--	2.0
03/08/96	21.42	16.01	5.41	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	21.42	14.93	6.49	--	270	0.84	<0.5	10	<0.5	--	13
09/12/96	21.42	13.12	8.30	--	400	5.4	<0.5	27	<0.5	--	11
12/16/96	21.42	14.10	7.32	--	69	0.66	<0.5	2.3	<0.5	--	12
03/12/97	21.42	15.29	6.13	--	<50	<0.5	<0.5	0.50	<0.5	--	4.2
C-7											
08/17/94	23.21	13.14	10.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	23.21	14.73	8.48	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	23.21	15.99	7.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	23.21	13.71	9.50	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	23.21	14.77	8.44	--	<50	<0.5	<0.5	<0.5	<0.5	--	4.4
03/08/96	23.21	16.15	7.06	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	23.21	14.88	8.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	4.4
09/12/96	23.21	13.19	10.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/16/96	23.21	14.03	9.18	--	<50	<0.5	<0.5	<0.5	<0.5	--	2.5
03/12/97	23.21	15.39	7.82	--	<50	<0.5	<0.5	<0.5	<0.5	--	5.0

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
TRIP BLANK											
12/05/90	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/01/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/07/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/29/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/08/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
06/12/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/12/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
03/12/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	TOG	MTBE
BAILER BLANK											
09/06/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/03/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/02/92	--	--	--	--	<50	<0.5	<0.5	<0.5	0.4	--	--
12/01/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/23/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/07/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on September 13, 1995. Earlier field data and analytical results are drawn from the March 1, 1995 Sierra Environmental Services report.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

TOG = Total Oil & Grease

MTBE = Methyl t-butyl ether

Analytical Appendix



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-5630/970312-K2 Sample Descript: C-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9703695-01	Sampled: 03/12/97 Received: 03/13/97 Analyzed: 03/15/97 Reported: 03/21/97
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QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D. ✓
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery ✓
Trifluorotoluene	70 130	83

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-5630/970312-K2 Sample Descript: C-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9703695-02	Sampled: 03/12/97 Received: 03/13/97 Analyzed: 03/15/97 Reported: 03/21/97
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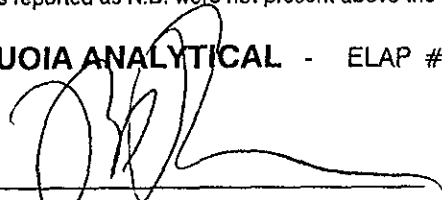
QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D. ✓
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery ✓
Trifluorotoluene	70 130	79

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-5630/970312-K2 Sample Descript: C-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9703695-03	Sampled: 03/12/97 Received: 03/13/97 Analyzed: 03/15/97 Reported: 03/21/97
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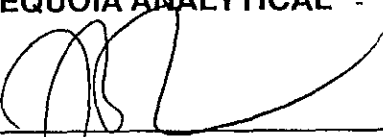
QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D. ✓
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery ✓
Trifluorotoluene	70 130	75

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

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-5630/970312-K2 Sample Descript: C-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9703695-04	Sampled: 03/12/97 Received: 03/13/97 Analyzed: 03/15/97 Reported: 03/21/97
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QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D. ✓
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83 ✓

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Chevron 9-5630/970312-K2
Sample Descript: C-6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9703695-05

Sampled: 03/12/97
Received: 03/13/97
Analyzed: 03/15/97
Reported: 03/21/97

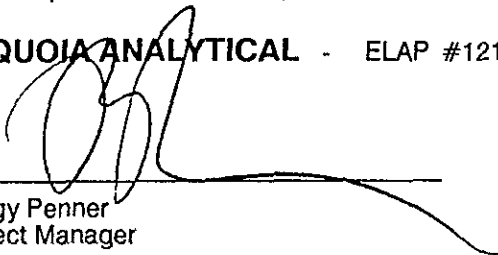
QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	4.2
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	0.50
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	82

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-5630/970312-K2 Sample Descript: C-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9703695-06	Sampled: 03/12/97 Received: 03/13/97 Analyzed: 03/15/97 Reported: 03/21/97
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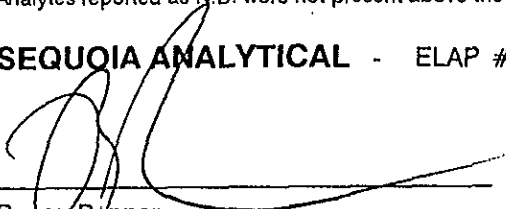
QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	5.0
Benzene	0.50	N.D.
Toluene	0.50	N.D. ✓
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86 ✓

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron 9-5630/970312-K2 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9703695-07	Sampled: 03/12/97 Received: 03/13/97 Analyzed: 03/15/97 Reported: 03/21/97
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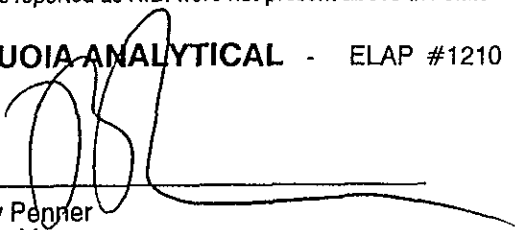
QC Batch Number: GC031597BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D. ✓
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	84 ✓

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

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
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(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Chevron 9-5630/970312-K2

Received: 03/13/97

Lab Proj. ID: 9703695

Reported: 03/21/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 9 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





Blaine Tech Services, Inc. Client Project ID: Chevron 9-5630/970312-K2
 1680 Rogers Avenue Matrix: Liquid
 San Jose, CA 95112
 Attention: Fran Thie Work Order #: 9703695 -01-07 Reported: Mar 26, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031597BTEX17A	GC031597BTEX17A	GC031597BTEX17A	GC031597BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. MirafTAB	A. MirafTAB	A. MirafTAB	A. MirafTAB
MS/MSD #:	970315303	970315303	970315303	970315303
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/15/97	3/15/97	3/15/97	3/15/97
Analyzed Date:	3/15/97	3/15/97	3/15/97	3/15/97
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.4	8.1	8.2	25
MS % Recovery:	84	81	82	83
Dup. Result:	8.5	8.2	8.4	25
MSD % Recov.:	85	82	84	83
RPD:	1.2	1.2	2.4	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK031597	BLK031597	BLK031597	BLK031597
Prepared Date:	3/15/97	3/15/97	3/15/97	3/15/97
Analyzed Date:	3/15/97	3/15/97	3/15/97	3/15/97
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.1	8.2	8.1	25
LCS % Recov.:	81	82	81	83

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Peggy Penner
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

9703695.BLA <1>



Fax copy of Lab Report and COC to Chevron Contact: Yes 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: 9-5630
Facility Address: 997 Grant Ave., San Lorenzo CA

Chevron Contact (Name): Phil Briggs
(Phone): (510) 842-9136

Consultant Project Number: 970312-K2
Laboratory Name: Sequoia

Consultant Name: Blaine Tech Services, Inc.
Laboratory Release Number: 9034840

Address: 1680 Rogers Ave., San Jose, CA 95112
Samples Collected by (Name): Keith Brown

Project Contact (Name): Fran Thie
Collection Date: 3/12

(Phone): (408) 573-0555 (Fax Number): (408) 573-7771
Signature: [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes To Be Performed <u>97031295</u>											DO NOT BILL FOR TB-LB																			
								BIEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	MTBE																						
C-1	1	3	W	D	1105	Hel	Y	X																														
C-2	2				1215			X																														
C-3	3				1200			X																														
C-5	4				1025			X																														
10-3681 ER C-7	5				1140			X																														
C-7	6				1120			X																														
TB	7				-			X																														

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>BTS</u>	Date/Time: <u>10:15 3/13/97</u>	Received By (Signature): <u>[Signature]</u>	Organization: <u>Sequoia</u>	Date/Time: <u>10:15 3/13/97</u>	Turn Around Time (Circle Choice) <input checked="" type="checkbox"/> 24 Hrs. <input type="checkbox"/> 48 Hrs. <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input checked="" type="checkbox"/> As Contracted
Relinquished By (Signature): <u>[Signature]</u>	Organization:	Date/Time: <u>3/13/97</u>	Received By (Signature):	Organization:	Date/Time:	
Relinquished By (Signature):	Organization:	Date/Time:	Received For Laboratory By (Signature): <u>[Signature]</u>		Date/Time: <u>3/13/97 12:01</u>	

COC-3.DWG/03 91/HCH

Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>920312-102</u>	Station #: <u>9-5030</u>
Sampler: <u>KCP</u>	Date: <u>3/12</u>
Well I.D.: <u>C1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>2732</u>	Depth to Water: <u>814</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Middleburg	<input type="checkbox"/> Extraction Port
<input type="checkbox"/> Electric Submersible Extraction Pump	Other: <u> </u>
Other: <u> </u>	

<u>30</u>	x	<u>3</u>	=	<u>9.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1051</u>	<u>62.6</u>	<u>7.4</u>	<u>1100</u>	<u>3.0</u>	
<u>1055</u>	<u>62.0</u>	<u>7.6</u>	<u>1200</u>	<u>6.0</u>	<u>cloudy / tan</u>
<u>1100</u>	<u>62.2</u>	<u>7.4</u>	<u>1200</u>	<u>9.0</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>9.0</u>
Sampling Time: <u>1105</u>	Sampling Date: <u>3/12</u>
Sample I.D.: <u>C1</u>	Laboratory: <u>(Sequoia)</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D Other:	
Duplicate I.D.: <u> </u>	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <u> </u> mg/L Post-purge: <u> </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 92032-102	Station #: 9-5630
Sampler: IGB	Date: 3/12
Well I.D.: P-2	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 2461	Depth to Water: 680
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

2.9	x	3	=	8.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1204	63.0	7.6	1200	3.0	
1208	63.4	7.5	1200	6.0	cloudy / grey-tan
1212	63.4	7.3	1200	9.0	

Did well dewater? Yes No Gallons actually evacuated: 9.0

Sampling Time: 1215 Sampling Date: 3/12

Sample I.D.: P-2 Laboratory: Sequoia GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>920312-K2</u>	Station #: <u>9-5630</u>
Sampler: <u>KEB</u>	Date: <u>3/12</u>
Well I.D.: <u>C-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>2577</u>	Depth to Water: <u>712</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<input type="checkbox"/> Disposable Bailer	<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Middleburg	<input type="checkbox"/> Extraction Port
<input type="checkbox"/> Electric Submersible Extraction Pump	Other: _____
Other: _____	

<u>3.0</u>	x	<u>3</u>	=	<u>9.0</u>	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1148</u>	<u>62.6</u>	<u>6.8</u>	<u>1300</u>	<u>3.0</u>	
<u>1151</u>	<u>64.0</u>	<u>7.0</u>	<u>1300</u>	<u>6.0</u>	
<u>1155</u>	<u>63.8</u>	<u>6.9</u>	<u>1300</u>	<u>9.0</u>	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>9.0</u>	
Sampling Time: <u>1200</u>	Sampling Date: <u>3/12</u>	
Sample I.D.: <u>C-3</u>	Laboratory: <u>(Sequoia)</u> GTEL N. Creek Assoc. Labs	
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D Other:		
Duplicate I.D.: _____	Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>970312-102</u>	Station #: <u>9-5630</u>
Sampler: <u>16 CB</u>	Date: <u>3/12</u>
Well I.D.: <u>C-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>1838</u>	Depth to Water: <u>693</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible Extraction Pump / Other:

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other:

<u>1.8</u>	x	<u>3</u>	=	<u>5.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

ok

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1025</u>	<u>67.0</u>	<u>7.7</u>	<u>1200</u>	<u>2.0</u>	<u>silty / brn</u>
<u>1018</u>	<u>63.2</u>	<u>9.4</u>	<u>1300</u>	<u>4.0</u>	
<u>1021</u>	<u>64.0</u>	<u>7.4</u>	<u>1400</u>	<u>5.5</u>	

Did well dewater? Yes No Gallons actually evacuated: 5.5

Sampling Time: 1025 Sampling Date: 3/12

Sample I.D.: C-5 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>920312-K2</u>	Station #: <u>9-5630</u>
Sampler: <u>KEB</u>	Date: <u>3/12</u>
Well I.D.: <u>C-6</u>	Well Diameter: <u>3</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>1788</u>	Depth to Water: <u>613</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>NYC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other: <u> </u>	Sampling Method: <u>Bailer</u> Disposable Bailer <input checked="" type="checkbox"/> Extraction Port <input type="checkbox"/> Other: <u> </u>
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<u>1.9</u>	x	<u>3</u>	=	<u>5.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1129	60.2	7.6	1400	2.0	silty/bm
1132	61.8	7.0	1400	4.0	
1136	61.4	7.1	1400	6.0	
- Well Draws Down -					

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> *	Gallons actually evacuated: <u>6.0</u>
Sampling Time: <u>1140</u>	Sampling Date: <u>3/12</u>
Sample I.D.: <u>C-6</u>	Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other:	
Duplicate I.D.: <u> </u>	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <u> </u> mg/L Post-purge: <u> </u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 920312-102	Station #: 9-5630
Sampler: 1CB	Date: 3/12
Well I.D.: 27	Well Diameter: (2) 3 4 6 8
Total Well Depth: 1865	Depth to Water: 782
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other: _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Extraction Port <input type="checkbox"/> Other: _____
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<u>1.4</u>	x	<u>3</u>	=	<u>4.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1112	63.4	7.2	1400	1.5	silty/bm
1115	63.2	7.2	1500	3.0	
1117	62.6	7.1	1600	4.5	

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Time: 1120 Sampling Date: 3/12

Sample I.D.: 27 Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs

Analyzed for: TPH-G (BTEX) (MTBE) TPH-D Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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