

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
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ENVIRONMENTAL
PROTECTION
97 SEP 10 AM 11:20

August 28, 1997

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

3rd Quarter 1997 Monitoring at S-800

Third Quarter 1997 Groundwater Monitoring at
Chevron Service Station Number S-800
800 Center St.
Oakland, CA

Monitoring Performed on July 23, 1997

Groundwater Sampling Report 970723-J-2

This report covers the routine 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

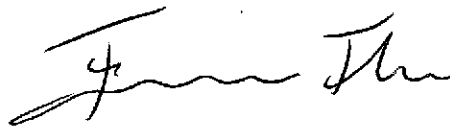
also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

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,

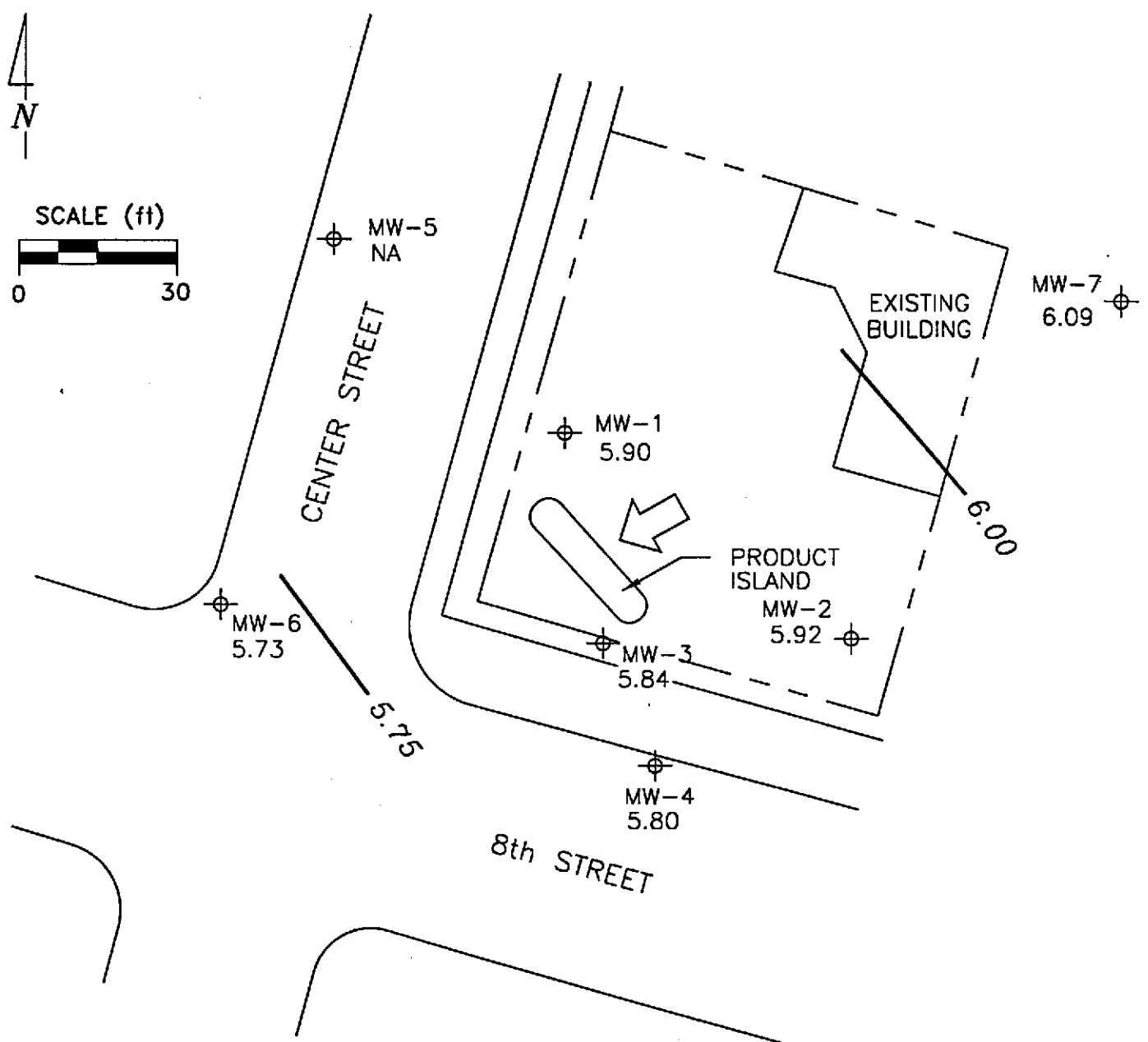
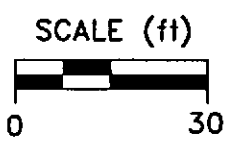
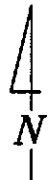
A handwritten signature in black ink, appearing to read "Francis Thie", written in a cursive style.

Francis Thie
Vice President



FPT/ew

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

Professional Engineering Appendix




EXPLANATION

-  MONITORING WELL
- 5.80 — GROUNDWATER ELEVATION (FT, MSL)
- 6.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- NA DATA NOT AVAILABLE
-  APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.002



Base map from Ron Archer Engineer Inc.

PREPARED BY  engineering contracting firm	Former Signal Service Station S-0800 800 Center Street Oakland, California	FIGURE: 1
	GROUNDWATER ELEVATION CONTOUR MAP, JULY 23, 1997	PROJECT: DAC04

**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	MTBE
MW-1										
10/27/95	15.69	10.54	5.15	--	170,000	19,000	34,000	4800	26,000	--
02/20/97	15.64	8.96	6.68	--	18,000	870	3500	470	2100	<250
04/24/97	15.64	7.30	8.34	--	76,000	4600	16,000	1600	8300	1000
07/23/97	15.64	5.90	9.74	--	37,000	2700	8000	870	6100	<250
MW-2										
10/27/95	15.77	10.60	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/97	15.72	8.51	7.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/24/97	15.72	7.82	7.90	--	83*	<0.5	<0.5	<0.5	<0.5	<2.5
07/23/97	15.72	5.92	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-3										
10/27/95	15.46	10.37	5.09	--	33,000	11,000	1700	2300	4200	--
02/20/97	15.42	8.37	7.05	--	260	56	<1.0	7.6	5.9	<5.0
04/24/97	15.42	7.29	8.13	--	1400	310	28	76	75	74
07/23/97	15.42	5.84	9.58	--	37,000	(10,000)	1500	2700	4200	2500
MW-4										
10/27/95	14.45	9.37	5.08	--	66	6.8	<0.5	<0.5	<0.5	--
02/20/97	14.40	8.12	6.28	--	54	<0.5	<0.5	<0.5	7.4	39
04/24/97	14.40	7.29	7.11	--	54	1.4	<0.5	0.65	3.0	100
07/23/97	14.40	5.80	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

* Chromatogram pattern indicates an unidentified hydrocarbon.

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	MTBE
MW-5										
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/97	15.03	--	--	Inaccessible	--	--	--	--	--	--
04/24/97	15.03	--	--	Inaccessible	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/23/97	15.03	--	--	Inaccessible	--	--	--	--	--	--
MW-6										
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/97	14.73	8.11	6.62	--	800	310	23	11	28	<12
04/24/97	14.73	7.13	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/23/97	14.73	5.73	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-7										
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/20/97	16.36	8.86	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/24/97	16.36	7.59	8.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/23/97	16.36	6.09	10.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
TRIP BLANK										
02/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/24/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
07/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on February 20, 1997. Earlier field data and analytical results are drawn from the January 24, 1997 Groundwater Technology, Inc. report.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-Butyl Ether

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

Analytical Appendix



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Chevron S-800/970723-J2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-01	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 07/29/97 Reported: 08/08/97
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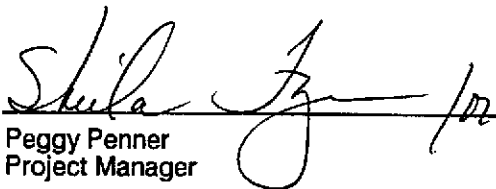
QC Batch Number: GC072997BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	37000
Methyl t-Butyl Ether	250	N.D.
Benzene	50	2700
Toluene	50	8000
Ethyl Benzene	50	870
Xylenes (Total)	50	6100
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	113

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 S-800/970723-J2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-02	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 07/31/97 Reported: 08/08/97
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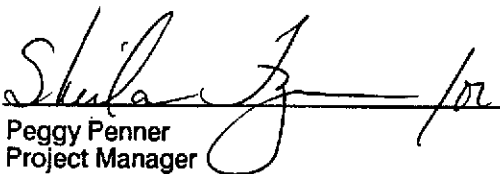
QC Batch Number: GC073197BTEX01A
Instrument ID: GCHP1

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	100

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 S-800/970723-J2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-03	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 07/29/97 Reported: 08/08/97
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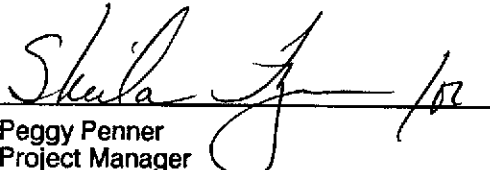
QC Batch Number: GC072997BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	37000
Methyl t-Butyl Ether	500	2500
Benzene	100	10000
Toluene	100	1500
Ethyl Benzene	100	2700
Xylenes (Total)	100	4200
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

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 S-800/970723-J2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-04	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 08/01/97 Reported: 08/08/97
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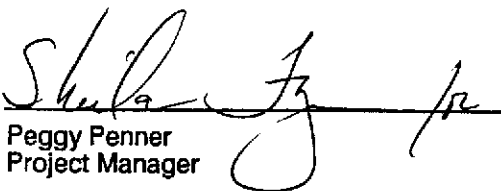
QC Batch Number: GC080197BTEX01A
Instrument ID: GCHP01

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	115

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 S-800/970723-J2 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-05	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 07/29/97 Reported: 08/08/97
Attention: Fran Thie		

QC Batch Number: GC072997BTEX18A
Instrument ID: GCHP18

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	86

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Chevron S-800/970723-J2 Sample Descript: MW-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-06	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 07/31/97 Reported: 08/08/97
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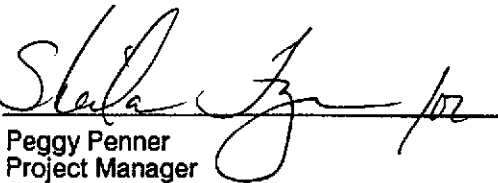
QC Batch Number: GC073197BTEX01A
Instrument ID: GCHP1

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	100

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 S-800/970723-J2 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707C15-07	Sampled: 07/23/97 Received: 07/23/97 Analyzed: 07/29/97 Reported: 08/08/97
Attention: Fran Thie		

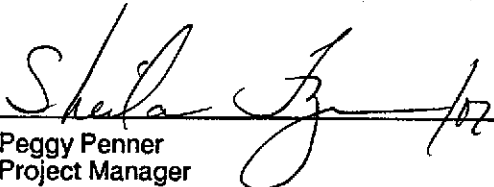
QC Batch Number: GC072997BTEX18A
Instrument ID: GCHP18

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	87

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, Inc. 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Project ID: Chevron S-800 / 970723-J2 Matrix: Liquid Work Order #: 9707C15 -01, 03, 05, 07	Reported: Aug 11, 1997
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QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC072997BTEX18A	GC072997BTEX18A	GC072997BTEX18A	GC072997BTEX18A	GC072997BTEX18A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9707A7710	9707A7710	9707A7710	9707A7710	9707A7710
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97
Analyzed Date:	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	9.7	32	56
MS % Recovery:	100	100	97	107	93
Dup. Result:	9.7	9.6	9.5	31	53
MSD % Recov.:	97	96	95	103	88
RPD:	3.0	4.1	2.1	3.2	5.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK072997	BLK072997	BLK072997	BLK072997	BLK072997
Prepared Date:	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97
Analyzed Date:	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.9	9.9	9.7	32	55
LCS % Recov.:	99	99	97	107	92

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

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.

SEQUOIA ANALYTICAL

Shelby Penner
Peggy Penner
Project Manager

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

9707C15.BLA <1>





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

Client Project ID: Chevron S-800 / 970723-J2
Matrix: Liquid

Work Order #: 9707C15-02, 06

Reported: Aug 11, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC073197BTEX01A	GC073197BTEX01A	GC073197BTEX01A	GC073197BTEX01A	GC073197BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9707D5102	9707D5102	9707D5102	9707D5102	9707D5102
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97
Analyzed Date:	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.9	9.3	9.7	28	54
MS % Recovery:	89	93	97	93	90
Dup. Result:	8.6	9.0	9.4	28	52
MSD % Recov.:	86	90	94	93	87
RPD:	3.4	3.3	3.1	0.0	3.8
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK073197	BLK073197	BLK073197	BLK073197	BLK072997
Prepared Date:	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97
Analyzed Date:	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.8	8.9	9.1	27	50
LCS % Recov.:	88	89	91	90	83

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

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.

SEQUOIA ANALYTICAL

Peggy Penner
Peggy Penner
Project Manager

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

9707C15.BLA <2>





Sequoia Analytical

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(510) 988-9600
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FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

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

Client Project ID: Chevron S-800 / 970723-J2
Matrix: Liquid

Work Order #: 9707C15-04

Reported: Aug 11, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080197BTEX01A	GC080197BTEX01A	GC080197BTEX01A	GC080197BTEX01A	GC080197BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9707C2206	9707C2206	9707C2206	9707C2206	9707C2206
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/1/97	8/1/97	8/1/97	8/1/97	8/1/97
Analyzed Date:	8/1/97	8/1/97	8/1/97	8/1/97	8/1/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	9.7	9.9	29	54
MS % Recovery:	100	97	99	97	90
Dup. Result:	9.4	9.0	9.1	27	51
MSD % Recov.:	94	90	91	90	85
RPD:	6.2	7.5	8.4	7.1	5.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK080197	BLK080197	BLK080197	BLK080197	BLK072997
Prepared Date:	8/1/97	8/1/97	8/1/97	8/1/97	8/1/97
Analyzed Date:	8/1/97	8/1/97	8/1/97	8/1/97	8/1/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.7	9.4	9.6	29	53
LCS % Recov.:	97	94	96	97	88

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

SEQUOIA ANALYTICAL

Peggy Penner
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

9707C15.BLA <3>





**Sequoia
Analytical**

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(510) 988-9600
(916) 921-9600

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FAX (916) 921-0100

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

Client Proj. ID: Chevron S-800/970723-J2

Received: 07/23/97

Lab Proj. ID: 9707C15

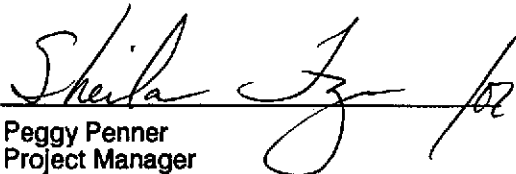
Reported: 08/08/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 12 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH Note: Sample 9707C15-01 was diluted 100-fold.
Sample 9707C15-03 was diluted 200-fold.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager



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

Chevron Facility Number S-800
 Facility Address 800 Center St., Oakland, CA
 Consultant Project Number 070723-32
 Consultant Name Blaine Tech Services, Inc.
 Address 1680 Rogers Ave., San Jose, CA 95112
 Project Contact (Name) Fran Thie
 (Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) Phil Briggs
 (Phone) (510) 842-9136
 Laboratory Name Sequoia
 Laboratory Release Number 9013363
 Samples Collected by (Name) Mat James
 Collection Date 7/23/97
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Media S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed <u>9707C15</u>												DO NOT BILL FOR TB-LB	Remarks
								TEX + TPH GAS (8220 + 8015) <u>MIBE</u>	TPH Dissol (8015)	Oil and Grease (8523)	Flammable Hydrocarbons (8010)	Petroleum Aromatics (8020)	Flammable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)						
MW-1	1	3	W	D	1350	HCl	Y	X													
MW-2	2	3			1225			X													
MW-3	3	3			1330			X													
MW-4	4	3			245			X													
MW-6	5	3			1310			X													
MW-7	6	3			1200			X													
TB	7	2						X													

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>BTS</u>	Date/Time <u>7/23/97</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>Sequoia</u>	Date/Time <u>7/23/97</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days <u>10 Days</u> As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization	Date/Time <u>7/23/97</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Mara Gushis</u>	Organization	Date/Time <u>7/23/97</u>	

7 23 4 16

Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: 970723-J2	Station #: S-800
Sampler: MS	Date: 7/23/97
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 13.75	Depth to Water: 9.74
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 Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

$\frac{.6}{1 \text{ Case Volume (Gals.)}}$	x	$\frac{3}{\text{Specified Volumes}}$	=	$\frac{1.9}{\text{Calculated Volume}}$ Gals.
--	---	--------------------------------------	---	--

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1344	66.8	7.1	430	1	
1346	67.0	6.9	410	1.5	
1348	67.0	6.9	400	2	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 2
Sampling Time: 1350	Sampling Date:
Sample I.D.: MW-1	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 #: 970723-52	Station #: 5800
Sampler: MJ	Date: 7/23/97
Well I.D.: MW-2	Well Diameter: 2" 3 4 6 8
Total Well Depth: 13.35	Depth to Water: 9.80
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	Sampling Method: Bailer
Disposable Bailer	Disposable Bailer
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

.6	x	3	=	1.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1215	66.4	7.3	660	1	
1217	67.6	7.2	640	1.5	
1219	68.0	7.2	640	2	

Did well dewater? Yes No Gallons actually evacuated: 2

Sampling Time: 1225 Sampling Date: 7/23

Sample I.D.: MW-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>a70723 J2</u>	Station #: <u>5-800</u>
Sampler: <u>MS</u>	Date: <u>7/23/97</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>14.20</u>	Depth to Water: <u>9.58</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: Bailer	Sampling Method: Bailer
Disposable Bailer <input checked="" type="checkbox"/>	Disposable Bailer <input checked="" type="checkbox"/>
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

<u>.7</u>	x	<u>3</u>	=	<u>2.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1321</u>	<u>67.6</u>	<u>7.1</u>	<u>700</u>	<u>1</u>	<u>Odor</u>
<u>1324</u>	<u>68.0</u>	<u>6.9</u>	<u>700</u>	<u>2</u>	
<u>1324</u>	<u>68.0</u>	<u>6.9</u>	<u>690</u>	<u>2.5</u>	

Did well dewater? Yes <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>2.5</u>
Sampling Time: <u>1330</u>	Sampling Date: <u>7/23</u>
Sample I.D.: <u>MW-3</u>	Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other:	
Duplicate I.D.:	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 #: 470723-52	Station #: S-800
Sampler: MS	Date: 7/23/97
Well I.D.: MW-4	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 13.38	Depth to Water: 8.60
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 Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer Extraction Port Other: _____
---	--

<u>0.8</u>	x	<u>3</u>	=	<u>2.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1238	68.6	7.3	540	1	
1240	68.4	7.2	530	2	
1242	68.4	7.2	530	2.5	

Did well dewater? Yes <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/>	Gallons actually evacuated: 2.5
Sampling Time: 1245	Sampling Date: 7/23
Sample I.D.: MW-4	Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs
Analyzed for: <u>TPH-G</u> BTEX MTBE TPH-D Other:	
Duplicate I.D.:	Analyzed for: TPH-G BTEX MTBE TPH-D Other:
D.O. (if req'd):	Pre-purge: <input type="checkbox"/> mg/L Post-purge: <input type="checkbox"/> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="checkbox"/> mV Post-purge: <input type="checkbox"/> mV

CHEVRON WELL MONITORING DATA SHEET

Project #: <u> a70723-52 </u>	Station #: <u> 5-800 </u>
Sampler: <u> MJ </u>	Date: <u> 7/23/97 </u>
Well I.D.: <u> MW-5 </u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
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 Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer Extraction Port Other: _____
---	--

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u> 1130 </u>					<u> car Parked over well </u>
<u> ↓ </u>					
<u> 1400 </u>					

Did well dewater?	Yes	No	Gallons actually evacuated:
Sampling Time:	Sampling Date:		
Sample I.D.:	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 #: 970723 52	Station #: S-800
Sampler: MS	Date: 7/23/97
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.66	Depth to Water: 9.00
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 Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other: _____
--	---

1.7	x	3	=	5.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1258	68.8	7.1	310	2	
1302	69.0	7.0	300	4	
1306	69.0	6.9	300	5.5	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 5.5
Sampling Time: 1310	Sampling Date: 7/23
Sample I.D.: MW-6	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 #: 970723-52	Station #: 5800
Sampler: MS	Date: 7/23/97
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8
Total Well Depth: 18.58	Depth to Water: 10.27
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 Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer X Extraction Port Other: _____
--	--

1.3	x	3	=	4.0	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1152	62.4	7.2	600	15	
1156	63.0	7.1	530	3	
1158	63.2	7.1	520	4	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 4
Sampling Time: 1200	Sampling Date: 7/23
Sample I.D.: MW-7	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: <input type="text"/> mg/L Post-purge: <input type="text"/> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="text"/> mV Post-purge: <input type="text"/> mV