

ENVIRONMENTAL
PROTECTION

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Chevron

Chevron U.S.A. Products Company
6001 Ballinger Canyon Rd. Bldg. L
P. O. Box 6004
San Ramon, CA 94583-0804

Site Assessment and
Remediation Group
Phone (510) 842-9500
Fax (510) 842-5570

Date: 3-13-00
To: Distribution
Re: Groundwater Monitoring Report, 9-9708

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Blaine Tech Services is authorized to distribute the report directly to interested parties.

If you have any questions, please call me at (510) 842-8695.

Sincerely,

Brett Hunter
Site Assessment and Remediation
Project Manager

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

March 13, 2000

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

4th Quarter 1999 Monitoring at 9-9708

Fourth Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-9708
5910 MacArthur Blvd.
Oakland, CA

Monitoring Performed on December 8, 1999

Groundwater Sampling Report 991208-Y-1

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,



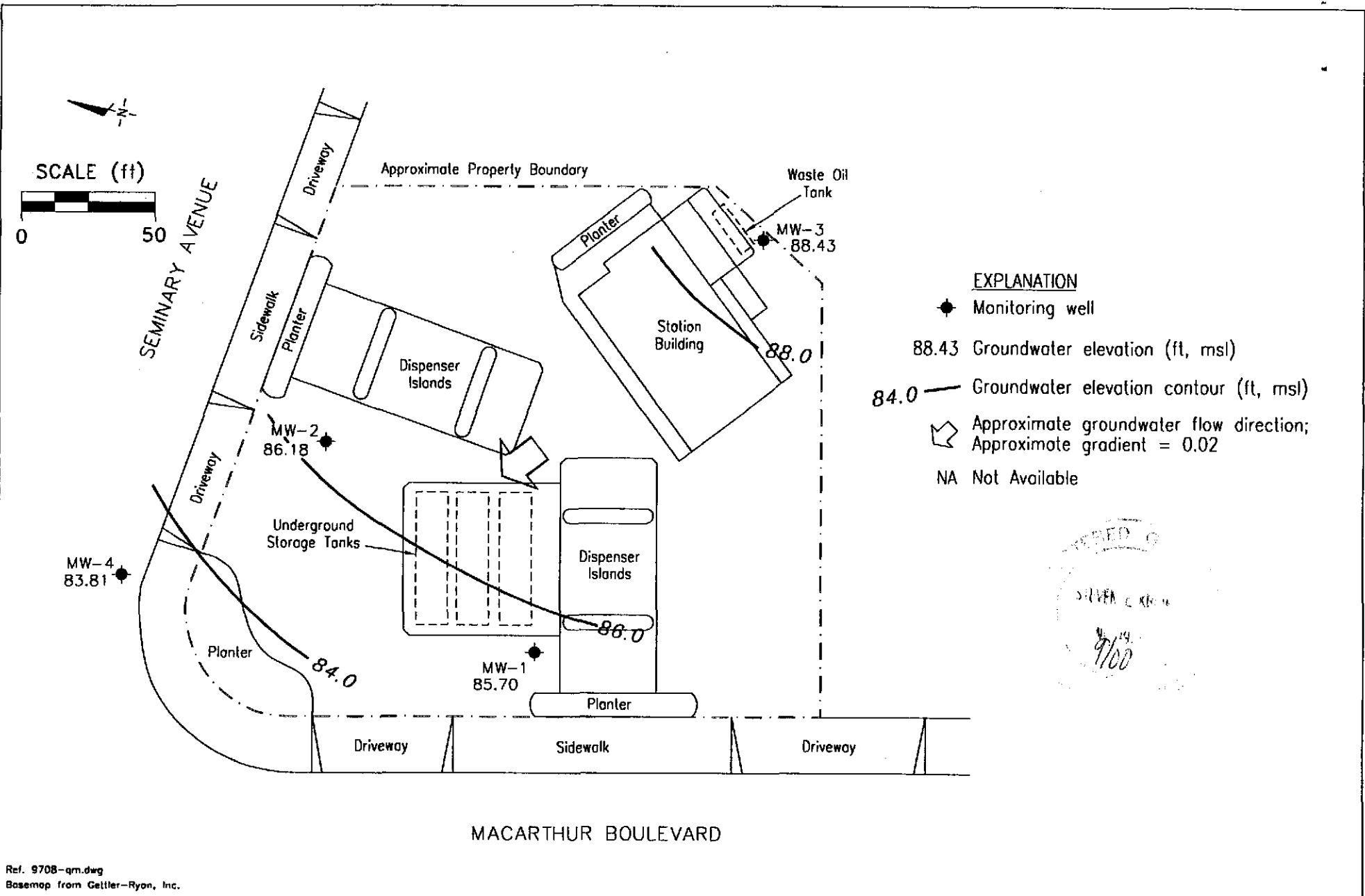
Scott Boor
Project Coordinator

SDB/pb

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

cc: ~~Thomas Peacock, Alameda County Health Care Services~~
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Professional Engineering Appendix



EXPLANATION

◆ Monitoring well

88.43 Groundwater elevation (ft, msl)

84.0 — Groundwater elevation contour (ft, msl)

↘ Approximate groundwater flow direction; Approximate gradient = 0.02

NA Not Available

RECEIVED
CHEVRON CORPORATION
12/19/99
9/00

Ref. 9708-qm.dwg
Basemap from Gettler-Ryon, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-9708
5910 MacArthur Boulevard
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
DECEMBER 8, 1999

FIGURE:
7
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	TPH-Diesel	1,2-DCB	1,2-DCA	HVOCs
MW-1														
05/29/97	96.61	84.41	12.20	--	--	--	--	--	--	--	--	--	--	--
06/04/97	96.61	84.40	12.21	--	380	58	1.2	5.4	40	85	--	--	--	--
09/16/97	96.61	83.84	12.77	--	420	120	<0.5	19	2.7	28	--	--	--	--
12/17/97	96.61	85.43	11.18	--	210*	43	0.61	11	0.61	69	--	--	--	--
03/18/98	96.61	84.59	12.02	--	210*	47	<0.5	8.2	<0.5	92	--	--	--	--
06/28/98	96.61	83.99	12.62	--	<50	<0.5	<0.5	<0.5	<0.5	66	--	--	--	--
09/07/98	96.61	82.32	14.29	--	<50	6.7	<0.5	<0.5	<0.5	92	--	--	--	--
12/29/98	96.61	83.18	13.43	--	<100	<1.0	<1.0	2.24	1.14	278	--	--	--	--
03/11/99	96.61	83.80	12.81	--	110	<1.0	<1.0	7.95	<1.0	418	--	--	--	--
05/04/99	96.61	83.85	12.76	--	--	--	--	--	--	--	--	--	--	--
06/29/99	96.61	84.06	12.55	--	352	34.6	<2.5	51	<2.5	780	--	--	--	--
09/29/99	96.61	83.21	13.40	--	647	167	<2.5	58.6	14.8	1570	--	--	--	--
12/08/99	96.61	85.70	10.91	--	481	121	1.16	17.9	11	3910	--	--	--	--

* 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	TPH-Diesel	1,2-DCB	1,2-DCA	HVOCs
MW-2														
05/29/97	96.91	83.85	13.06	--	--	--	--	--	--	--	--	--	--	--
06/04/97	96.91	83.96	12.95	--	1600	120	5.9	32	15	2100	--	--	--	--
09/16/97	96.91	83.92	12.99	--	1100	23	3.2	7.0	2.5	1200	--	--	--	--
12/17/97	96.91	84.73	12.18	--	7100*	650	69	610	69	4700	--	--	--	--
12/17/97	96.91	84.73	12.18	Confirmation run	--	--	--	--	--	2600	--	--	--	--
03/18/98	96.91	84.21	12.70	--	5900*	250	<50	98	<50	12,000	--	--	--	--
03/18/98	96.91	84.21	12.70	Confirmation run	--	--	--	--	--	7100	--	--	--	--
06/28/98	96.91	83.98	12.93	--	4300	400	<10	<10	<10	3000	--	--	--	--
06/28/98	96.91	83.98	12.93	Confirmation run	--	--	--	--	--	4000	--	--	--	--
09/07/98	96.91	83.94	12.97	--	3700	220	5.1	38	7.6	1300	--	--	--	--
09/07/98	96.91	83.94	12.97	Confirmation run	--	--	--	--	--	1400	--	--	--	--
12/29/98	96.91	83.99	12.92	--	6500	573	26.8	131	33.9	2660	--	--	--	--
03/11/99	96.91	84.04	12.87	--	4970	651	30.8	60.3	<5.0	2600	--	--	--	--
05/04/99	96.91	84.05	12.86	--	--	--	--	--	--	--	--	--	--	--
06/29/99	96.91	83.98	12.93	--	2030	238	11.6	8.98	<5.0	540	--	--	--	--
09/29/99	96.91	84.02	12.89	--	2000	320	10.4	16.5	20.3	642	--	--	--	--
12/08/99	96.91	86.18	10.73	--	96.8	2.74	<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	TPH-Diesel	1,2-DCB	1,2-DCA	HVOCs
MW-3														
05/29/97	97.86	86.41	11.45	--	--	--	--	--	--	--	--	--	--	--
06/04/97	97.86	86.58	11.28	**	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1200	ND	1.0	--
09/16/97	97.86	85.67	12.19	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2700*	--	--	--
12/17/97	97.86	87.06	10.80	--	<50	0.9	0.53	<0.5	<0.5	<2.5	1200*	--	--	--
03/18/98	97.86	86.98	10.88	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	820*	--	--	--
06/28/98	97.86	86.26	11.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1100*	0.99	ND	<0.5-<5.0
09/07/98	97.86	85.64	12.22	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1100*	0.79	0.54	--
12/29/98	97.86	86.06	11.80	--	185	<0.5	<0.5	<0.5	0.669	<2.0	1760*	1.04	0.578	<0.5-<5.0
03/11/99	97.86	86.83	11.03	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	1440	<1.0	<1.0	<1.0-<20
05/04/99	97.86	86.43	11.43	--	--	--	--	--	--	--	--	--	--	--
06/29/99	97.86	85.71	12.15	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	690*	0.754	<0.5	<0.5-<5.0
09/29/99	97.86	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
12/08/99	97.86	88.43	9.43	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1000*	<0.5	0.66	<0.5-<5.0
MW-4														
05/04/99	96.25	83.66	12.59	--	140	<0.5	0.62	0.67	2.6	<2.5	--	--	--	--
06/29/99	96.25	83.64	12.61	--	183	<0.5	<0.5	1.1	<0.5	<5.0	--	--	--	--
09/29/99	96.25	83.70	12.55	--	64.3	<0.5	<0.5	<0.5	1.18	<2.5	--	--	--	--
12/08/99	96.25	83.81	12.44	--	91.2	0.589	<0.5	0.52	<0.5	86	--	--	--	--

* Chromatogram pattern indicates an unidentified hydrocarbon.

** Sample also analyzed for the following: Total Oil & Grease by EPA Method 5520F was ND; Semivolatile Organics by EPA Method 8270B were ND; Volatile Organics by EPA Method 8010B were ND.

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	TPH-Diesel	1,2-DCB	1,2-DCA	HVOCs	
TRIP BLANK															
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--	
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--	
05/04/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
06/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
09/29/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
12/08/99	--	--	--	--	<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 December 29, 1998.

Earlier field data and analytical results were provided by Gettler-Ryan.

MW-1 through MW-3 were surveyed on June 18, 1997, by Virgil Chavez Land Surveying (PLS #6323). Benchmark Elevation =95.88' (msl).

Well MW-4 was surveyed on May 4, 1999 by Virgil Chavez Land Surveying.

Field Data and Analytical Results for the May 4, 1999 event were provided by Gettler-Ryan, Inc.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary-butyl ether

HVOCs= Halogenated Volatile Organic Compounds

1,2-DCB = 1,2-Dichlorobenzene

1,2-DCA = 1,2-Dichloroethane

Analytical Appendix



December 29, 1999

Scott Boor
Blaine Tech Services (Chev)
1680 Rogers Avenue
San Jose, CA 95112

RE: Chevron 9-9708/M912354

Dear Scott Boor

Enclosed are the results of analyses for sample(s) received by the laboratory on December 9, 1999. Chromatograms for unidentified hydrocarbons are included in this report. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Bonnes
Project Manager

CA ELAP Certificate Number 1210





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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ANALYTICAL REPORT FOR M912354

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M912354-01	Water	12/8/99
MW-2	M912354-02	Water	12/8/99
MW-3	M912354-03	Water	12/8/99
MW-4	M912354-04	Water	12/8/99
TB	M912354-05	Water	12/8/99





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1				M912354-01			Water	
Purgeable Hydrocarbons	9120657	12/21/99	12/21/99		100	481	ug/l	I,D
Benzene	"	"	"		1.00	121	"	D
Toluene	"	"	"		1.00	1.16	"	D
Ethylbenzene	"	"	"		1.00	17.9	"	D
Xylenes (total)	"	"	"		1.00	11.0	"	D
Methyl tert-butyl ether	"	"	12/20/99		62.5	3910	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	12/21/99	70.0-130		93.5	%	
MW-2							Water	
Purgeable Hydrocarbons	9120657	12/21/99	12/21/99		50.0	96.8	ug/l	I
Benzene	"	"	"		0.500	2.74	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		102	%	
MW-3							Water	
Purgeable Hydrocarbons	9120513	12/16/99	12/16/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		72.7	%	
MW-4							Water	
Purgeable Hydrocarbons	9120513	12/16/99	12/16/99		50.0	91.2	ug/l	I
Benzene	"	"	"		0.500	0.589	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	0.520	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	86.0	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		91.1	%	
TB							Water	
Purgeable Hydrocarbons	9120513	12/16/99	12/16/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TB (continued)				M912354-05				
Methyl tert-butyl ether	9120513	12/16/99	12/16/99		2.50	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		91.4	%	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-3</u>								
Diesel Range Hydrocarbons	9120591	12/17/99	12/20/99		0.0500	1.00	<u>Water</u> mg/l	2
Surrogate: <i>n</i> -Pentacosane	"	"	"	50.0-150		156	%	3





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Volatile Organic Compounds by EPA Method 8010B
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-3</u>				<u>M912354-03</u>				<u>Water</u>
Bromodichloromethane	9120373	12/17/99	12/17/99		0.500	ND	ug/l	
Bromoform	"	"	"		0.500	ND	"	
Bromomethane	"	"	"		1.00	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		1.00	ND	"	
Chloroform	"	"	"		0.500	ND	"	
Chloromethane	"	"	"		1.00	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	0.660	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.500	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		5.00	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.500	ND	"	
Tetrachloroethene	"	"	"		0.500	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichlorotrifluoroethane	"	"	"		1.00	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
Vinyl chloride	"	"	"		1.00	ND	"	
Surrogate: 1-Chloro-2-fluorobenzene	"	"	"	70.0-130		117	%	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120513		Date Prepared: 12/16/99			Extraction Method: EPA 5030B [P/T]					
Blank		9120513-BLK1								
Purgeable Hydrocarbons	12/16/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.64	"	70.0-130	76.4			
LCS		9120513-BS1								
Benzene	12/16/99	10.0		9.01	ug/l	70.0-130	90.1			
Toluene	"	10.0		9.17	"	70.0-130	91.7			
Ethylbenzene	"	10.0		9.27	"	70.0-130	92.7			
Xylenes (total)	"	30.0		28.4	"	70.0-130	94.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.43	"	70.0-130	84.3			
Matrix Spike		9120513-MS1		M912384-11						
Benzene	12/16/99	10.0	ND	9.72	ug/l	60.0-140	97.2			
Toluene	"	10.0	ND	9.91	"	60.0-140	99.1			
Ethylbenzene	"	10.0	ND	10.1	"	60.0-140	101			
Xylenes (total)	"	30.0	ND	30.6	"	60.0-140	102			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.89	"	70.0-130	88.9			
Matrix Spike Dup		9120513-MSD1		M912384-11						
Benzene	12/16/99	10.0	ND	9.89	ug/l	60.0-140	98.9	25.0	1.73	
Toluene	"	10.0	ND	10.1	"	60.0-140	101	25.0	1.90	
Ethylbenzene	"	10.0	ND	10.4	"	60.0-140	104	25.0	2.93	
Xylenes (total)	"	30.0	ND	31.3	"	60.0-140	104	25.0	1.94	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.21	"	70.0-130	92.1			
Batch: 9120657		Date Prepared: 12/21/99			Extraction Method: EPA 5030B [P/T]					
Blank		9120657-BLK1								
Purgeable Hydrocarbons	12/21/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.37	"	70.0-130	83.7			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS-LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<u>LCS</u>										
<u>9120657-BS1</u>										
Purgeable Hydrocarbons	12/21/99	250		230	ug/l	70.0-130	92.0			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		8.28	"	70.0-130	82.8			
<u>Matrix Spike</u>										
<u>9120657-MS1</u> <u>M912354-02</u>										
Purgeable Hydrocarbons	12/21/99	250	96.8	324	ug/l	60.0-140	90.9			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.90	"	70.0-130	99.0			
<u>Matrix Spike Dup</u>										
<u>9120657-MSD1</u> <u>M912354-02</u>										
Purgeable Hydrocarbons	12/21/99	250	96.8	288	ug/l	60.0-140	76.5	25.0	17.2	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.66	"	70.0-130	96.6			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 -- Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120591			Date Prepared: 12/17/99			Extraction Method: EPA 3510B				
Blank			9120591-BLK1							
Diesel Range Hydrocarbons	12/20/99			ND	mg/l	0.0500				
Surrogate: n-Pentacosane	"	0.100		0.103	"	50.0-150	103			
LCS			9120591-BS1							
Diesel Range Hydrocarbons	12/20/99	1.00		0.777	mg/l	60.0-140	77.7			
Surrogate: n-Pentacosane	"	0.100		0.0988	"	50.0-150	98.8			
LCS Dup			9120591-BSD1							
Diesel Range Hydrocarbons	12/20/99	1.00		0.802	mg/l	60.0-140	80.2	50.0	3.17	
Surrogate: n-Pentacosane	"	0.100		0.0982	"	50.0-150	98.2			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9120373			Date Prepared: 12/17/99			Extraction Method: EPA 5030B [P/T]				
Blank			9120373-BLK1							
Bromodichloromethane	12/17/99			ND	ug/l	0.500				
Bromoform	"			ND	"	0.500				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	0.500				
Chloromethane	"			ND	"	1.00				
Dibromochloromethane	"			ND	"	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				
1,2-Dichloropropane	"			ND	"	0.500				
cis-1,3-Dichloropropene	"			ND	"	0.500				
trans-1,3-Dichloropropene	"			ND	"	0.500				
Methylene chloride	"			ND	"	5.00				
1,1,2,2-Tetrachloroethane	"			ND	"	0.500				
Tetrachloroethene	"			ND	"	0.500				
1,1,1-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichlorotrifluoroethane	"			ND	"	1.00				
Trichloroethene	"			ND	"	0.500				
Trichlorofluoromethane	"			ND	"	0.500				
Vinyl chloride	"			ND	"	1.00				
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	12/18/99	10.0		9.33	"	70.0-130	93.3			

Blank			9120373-BLK2							
Bromodichloromethane	12/18/99			ND	ug/l	0.500				
Bromoform	"			ND	"	0.500				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	1.00				
Chloromethane	"			ND	"	1.00				





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)		9120373-BLK2								
Dibromochloromethane	12/18/99			ND	ug/l	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				
1,2-Dichloropropane	"			ND	"	0.500				
cis-1,3-Dichloropropene	"			ND	"	0.500				
trans-1,3-Dichloropropene	"			ND	"	0.500				
Methylene chloride	"			ND	"	5.00				
1,1,1,2-Tetrachloroethane	"			ND	"	0.500				
Tetrachloroethene	"			ND	"	0.500				
1,1,1-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichlorotrifluoroethane	"			ND	"	1.00				
Trichloroethene	"			ND	"	0.500				
Trichlorofluoromethane	"			ND	"	0.500				
Vinyl chloride	"			ND	"	1.00				
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	"	10.0		11.8	"	70.0-130	118			
Blank		9120373-BLK3								
Bromodichloromethane	12/20/99			ND	ug/l	0.500				
Bromoform	"			ND	"	0.500				
Bromomethane	"			ND	"	1.00				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	1.00				
Chloroform	"			ND	"	0.500				
Chloromethane	"			ND	"	1.00				
Dibromochloromethane	"			ND	"	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)		9120373-BLK3								
1,2-Dichloropropane	12/20/99			ND	ug/l	0.500				
cis-1,3-Dichloropropene	"			ND	"	0.500				
trans-1,3-Dichloropropene	"			ND	"	0.500				
Methylene chloride	"			ND	"	5.00				
1,1,2,2-Tetrachloroethane	"			ND	"	0.500				
Tetrachloroethene	"			ND	"	0.500				
1,1,1-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichloroethane	"			ND	"	0.500				
1,1,2-Trichlorotrifluoroethane	"			ND	"	1.00				
Trichloroethene	"			ND	"	0.500				
Trichlorofluoromethane	"			ND	"	0.500				
Vinyl chloride	"			ND	"	1.00				
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	"	10.0		11.7	"	70.0-130	117			
LCS		9120373-BS1								
Chlorobenzene	12/17/99	12.5		12.1	ug/l	70.0-130	96.8			
1,1-Dichloroethene	"	12.5		9.60	"	65.0-135	76.8			
Trichloroethene	"	12.5		11.2	"	70.0-130	89.6			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	"	10.0		10.3	"	70.0-130	103			
LCS		9120373-BS2								
Chlorobenzene	12/18/99	12.5		12.8	ug/l	70.0-130	102			
1,1-Dichloroethene	"	12.5		10.1	"	65.0-135	80.8			
Trichloroethene	"	12.5		11.4	"	70.0-130	91.2			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	"	10.0		12.6	"	70.0-130	126			
LCS		9120373-BS3								
Chlorobenzene	12/20/99	12.5		12.1	ug/l	70.0-130	96.8			
1,1-Dichloroethene	"	12.5		9.51	"	65.0-135	76.1			
Trichloroethene	"	12.5		10.9	"	70.0-130	87.2			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	"	10.0		12.4	"	70.0-130	124			
Matrix Spike		9120373-MS1		M912354-03						
Chlorobenzene	12/17/99	12.5	ND	13.1	ug/l	60.0-140	105			
1,1-Dichloroethene	"	12.5	ND	8.33	"	60.0-140	66.6			
Trichloroethene	"	12.5	ND	11.2	"	60.0-140	89.6			
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	"	10.0		11.5	"	70.0-130	115			
Matrix Spike Dup		9120373-MSD1		M912354-03						
Chlorobenzene	12/17/99	12.5	ND	11.6	ug/l	60.0-140	92.8	25.0	12.3	
1,1-Dichloroethene	"	12.5	ND	9.72	"	60.0-140	77.8	25.0	15.5	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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**Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill**

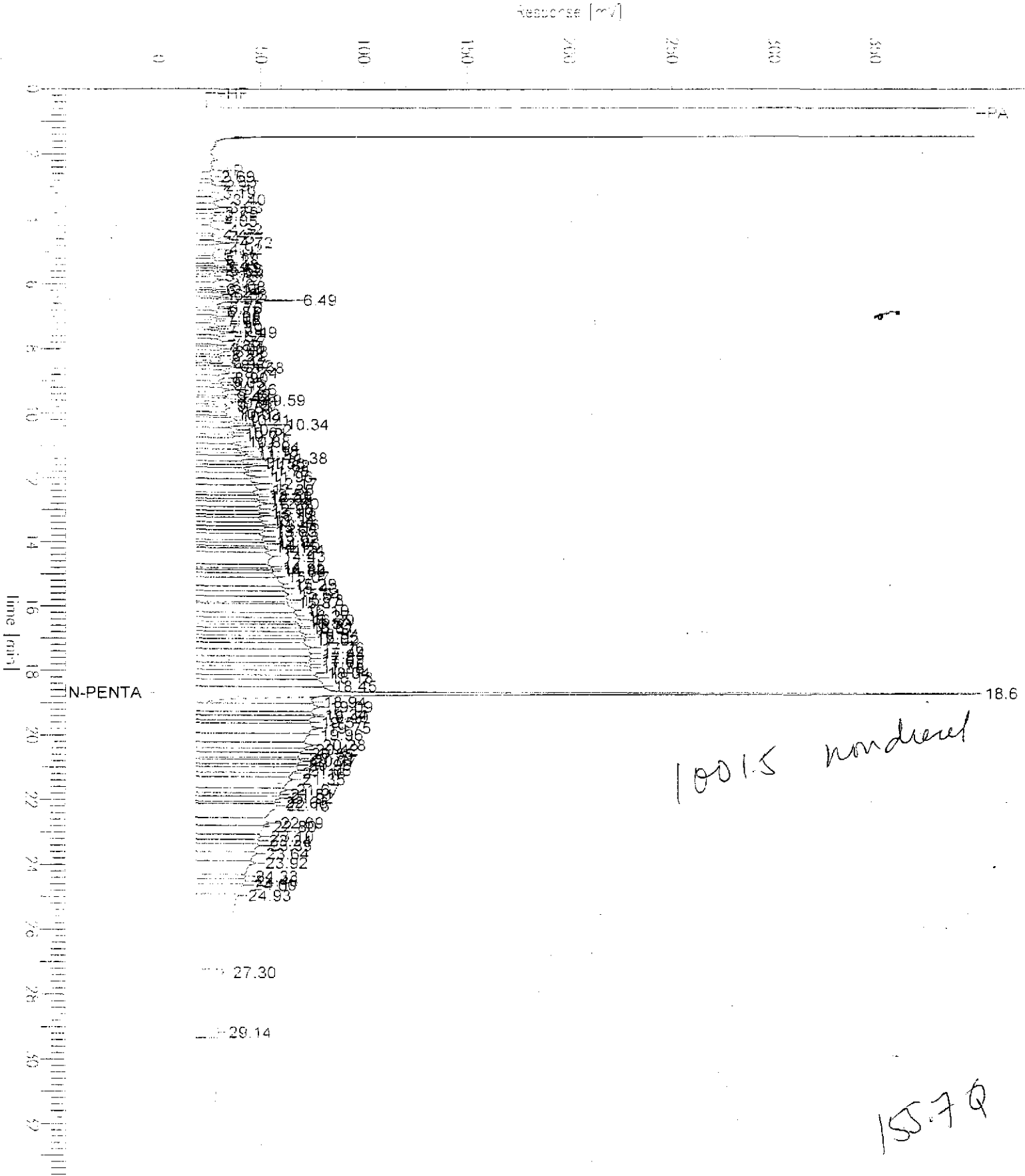
Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)										
	9120373-MSD1	M912354-03								
Trichloroethene	12/17/99	12.5	ND	9.78	ug/l	60.0-140	78.2	25.0	13.6	
Surrogate: 1-Chloro-2-fluorobenzene	"	10.0		11.5	"	70.0-130	115			



Chromatogram

Sample Name : M912354-03 (500:1)
FileName : C:\DATA\GHP_04\1226\D20B011.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

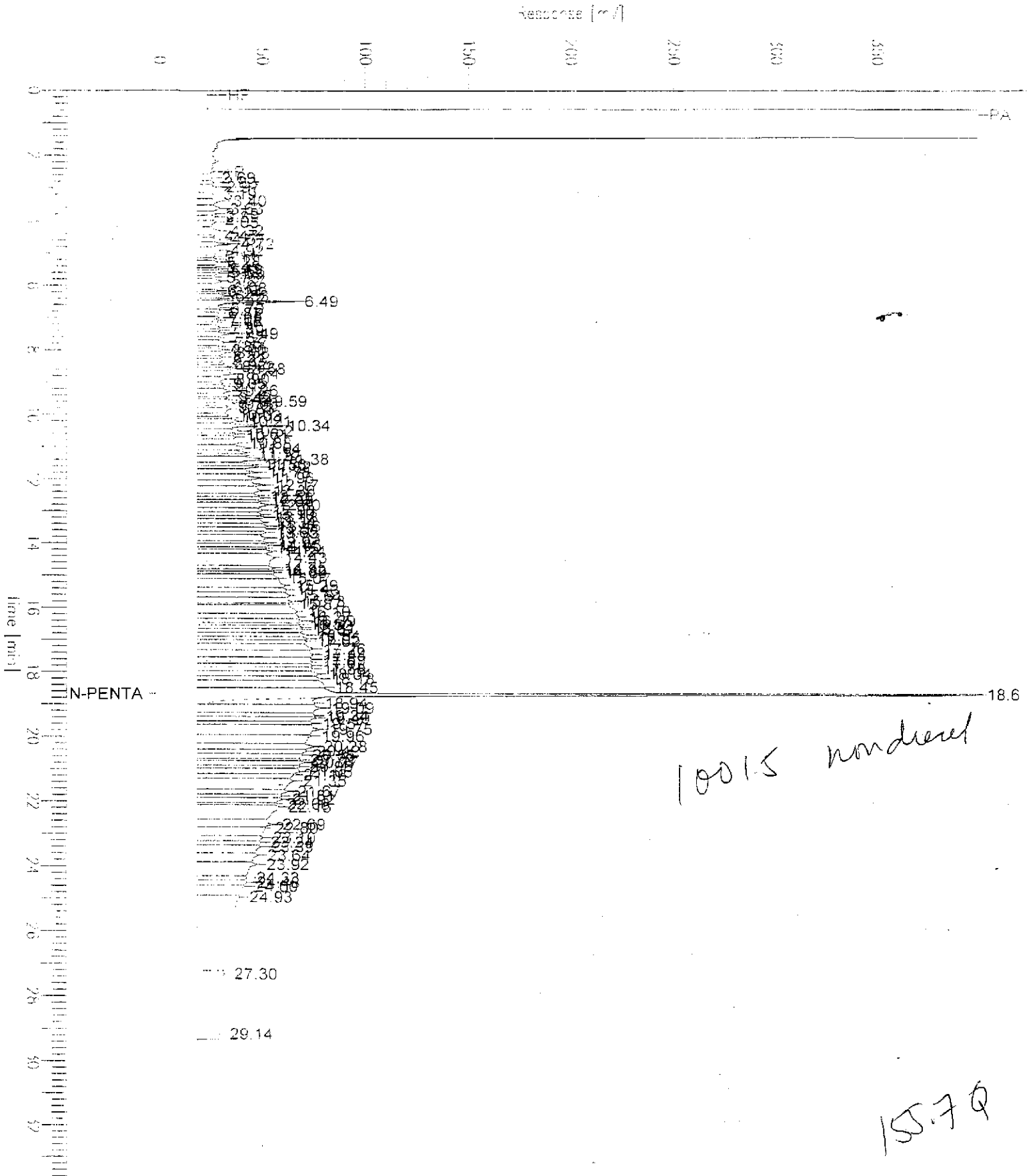
Sample #: MW-3 Page 1 of 1
Date : 12/31/99 09:02 AM
Time of Injection: 12/20/99 06:41 PM
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Chromatogram

Sample Name : M912354-03 (500:1)
FileName : C:\DATA\GNP_04\1226\D20B011.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

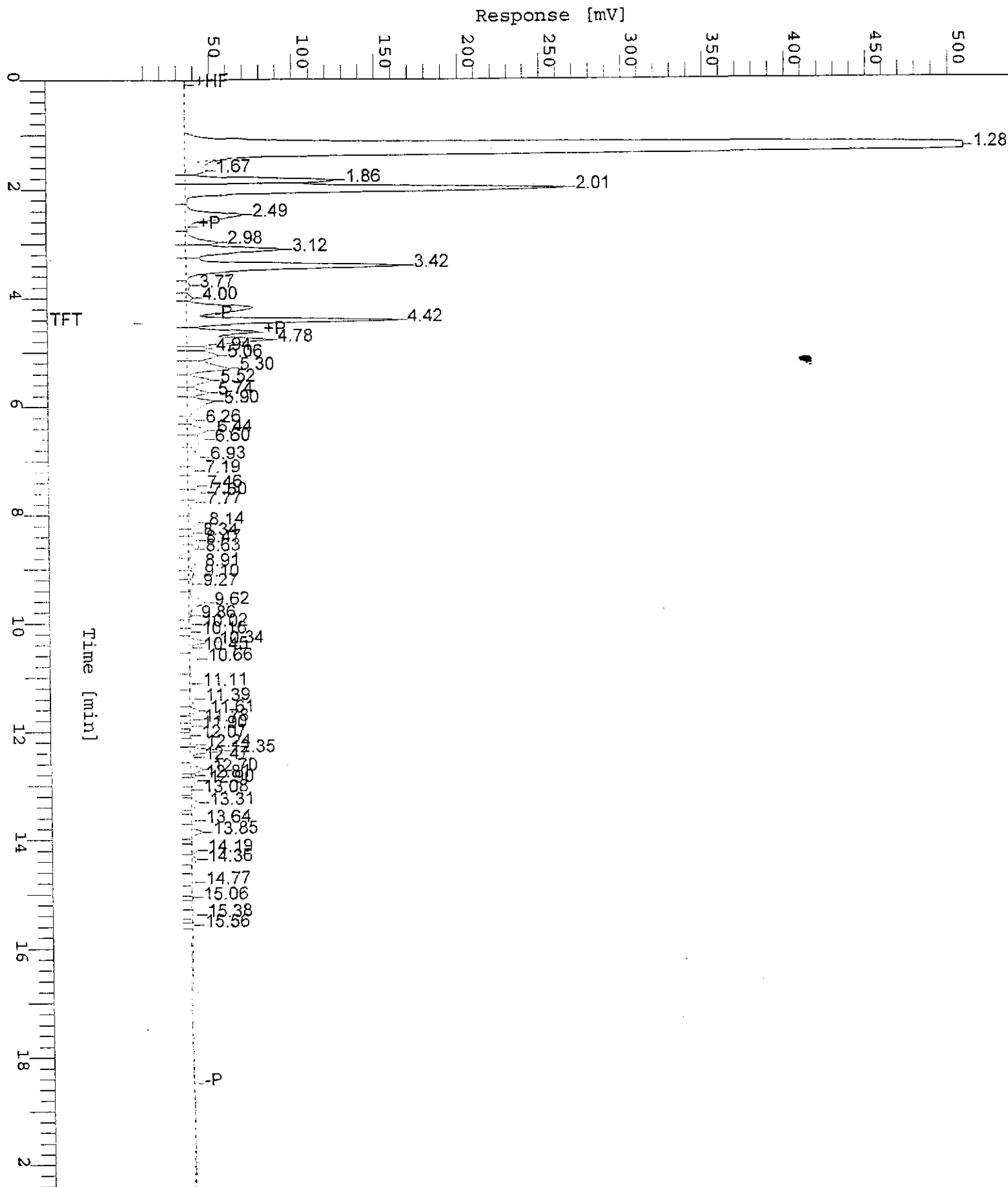
Sample #: MW-3 Page 1 of 1
Date : 12/21/99 09:02 AM
Time of Injection: 12/20/99 06:41 PM
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Chromatogram

Sample Name : M912354-02RE
FileName : S:\GHP_02\1226\D21A012.raw
Method : TPH
Start Time : 0.00 min
Scale Factor: -1.0

Sample #: MW-2
Date : 12/21/99 14:24
Time of Injection: 12/21/99 14:03
Low Point : 9.38 mV
High Point : 509.38 mV
Plot Offset: 9 mV
Plot Scale: 500.0 mV



Chromatogram

Sample Name : M912354-04

FileName : S:\GHP_02\1219\016A012.raw

Method : TPH

Start Time : 0.00 min

Scale Factor: -1.0

Sample #: MW4

Date : 12/16/99 14:09

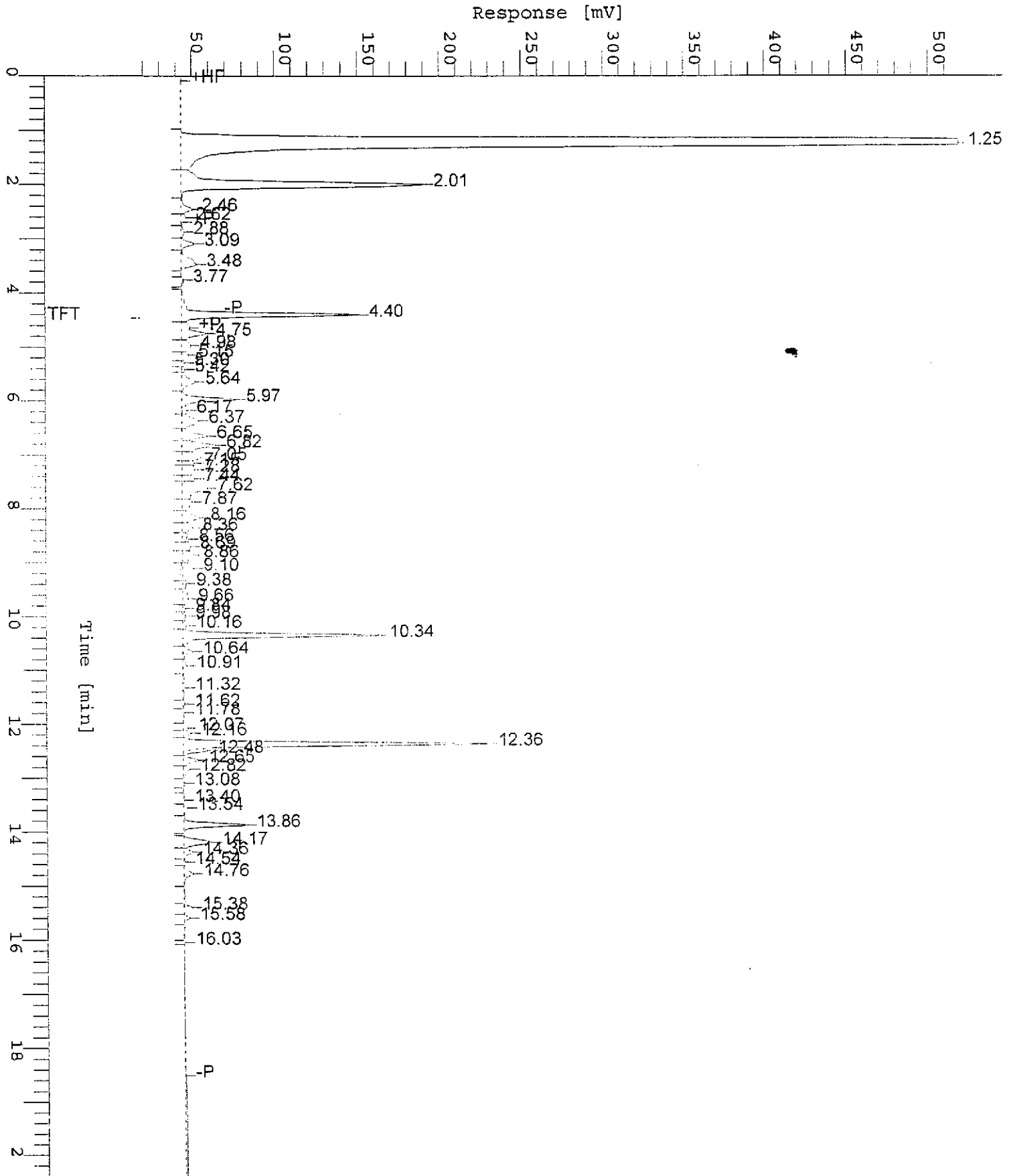
Time of Injection: 12/16/99 13:48

Low Point : 18.49 mV

Plot Scale: 500.0 mV

Page 1 of 1

High Point : 518.49 mV





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-9708 (5910 MacArthur Blvd., Oakland) Project Number: 991208-Y1 Project Manager: Scott Boor	Sampled: 12/8/99 Received: 12/9/99 Reported: 12/29/99
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Notes and Definitions

#	Note
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- D Data reported from a dilution.
- 1 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- 2 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
- 3 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference



Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: 991206-41	Station #: 9-9706
Sampler: LEON G.	Date: 12-8-99
Well I.D.: MW-1	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 20.00	Depth to Water: 10.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

$1.4 \text{ (Gals.)} \times 3 = 4.2 \text{ Gals.}$
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
908	66.0	6.9	1120	2	
911	68.0	6.9	1130	3	
914	69.5	6.9	1133	4	

Did well dewater? Yes No Gallons actually evacuated: 4

Sampling Time: 916 Sampling Date: 12-8-99

Sample I.D.: MW-1 Laboratory: STL Sequoia Other

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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 #: 991204-41	Station #: 9-9704
Sampler: LEON G	Date: 12-8-99
Well I.D.: MW-2	Well Diameter: 2) 3 4 6 8
Total Well Depth: 20.04	Depth to Water: 10.73
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

Sampling Method:

Bailer
 Disposable Bailer
 Extraction Port

Other: _____

Other: _____

1.5	X	3	=	4.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
930	60.1	7.9	190	2	
933	61.0	7.3	194	3	
937	61.8	7.2	196	5	

Did well dewater? Yes No Gallons actually evacuated: 5

Sampling Time: 939 Sampling Date: 12-8-99

Sample I.D.: MW-2 Laboratory: Sequoia CORE 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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CHEVRON WELL MONITORING DATA SHEET

Project #: 991208-11	Station #: 9-9708
Sampler: LEON G.	Date: 12-8-99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.94	Depth to Water: 9.43
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: _____

<u>1.6</u>	X	<u>3</u>	=	<u>4.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
952	66.7	6.7	996	2	
955	67.4	6.7	1041	3	
959	67.5	6.7	1054	5	

Did well dewater? Yes No Gallons actually evacuated: 5

Sampling Time: 1001 Sampling Date: 12-8-99

Sample I.D.: MW-3 Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: EPA x 8010

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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>991206-41</u>	Station #: <u>9-9706</u>
Sampler: <u>LEON G</u>	Date: <u>12-7-99</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>19.34</u>	Depth to Water: <u>12.44</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

Bailer

- Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

$\underline{1.1} \text{ (Gals.)} \times \underline{3} = \underline{3.3} \text{ Gals.}$
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
841	60.6	6.8	695	1	
844	61.6	6.9	615	2	
849	61.7	7.0	631	4	

Did well dewater? Yes No Gallons actually evacuated: 4

Sampling Time: 1850 Sampling Date: 12-8-99

Sample I.D.: MW-4 Laboratory: STL Sequoia Other

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

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable):

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