

ENVIRONMENTAL
PROTECTION

99 DEC 30 PM 2:58



Chevron

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

Site Assessment and
Remediation Group
Phone (510) 842-9500
Fax (510) 842-3370

Date: December 20, 1999

To: Distribution

Re: Groundwater Monitoring Report, 9-4800

*MABE still high. off site investigation
to be done in Feb 2000*

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,

A handwritten signature in cursive script that reads "Brett L. Hunter".

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

December 20, 1999

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

3rd Quarter 1999 Monitoring at 9-4800

Third Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-4800
1700 Castro St.
Oakland, CA

Monitoring Performed on September 29, 1999

Groundwater Sampling Report 990929-I-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

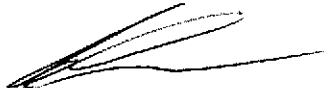
map which is located in the **Professional Engineering Appendix**.

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

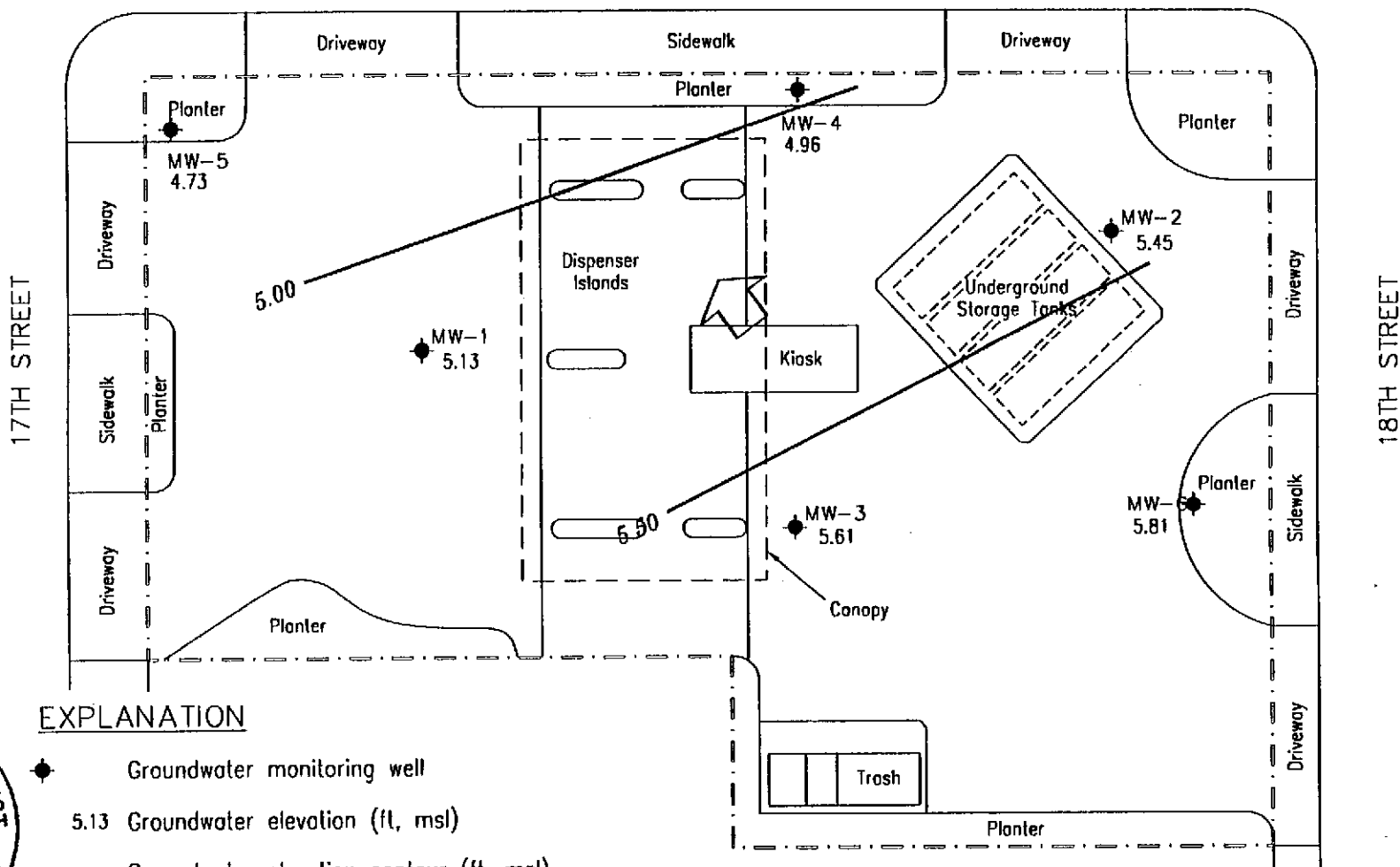
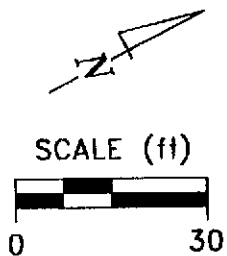
SDB/jh

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

cc: Eva Chu, Alameda County Health Care Services
Greg Gurss, Gettler-Ryan, Inc.

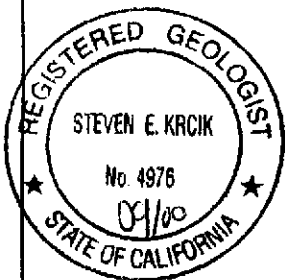
Professional Engineering Appendix

CASTRO STREET



EXPLANATION

- ◆ Groundwater monitoring well
- 5.13 Groundwater elevation (ft, msl)
- 5.50 — Groundwater elevation contour (ft, msl)
- ↗ Approximate groundwater flow direction;
Approximate gradient = 0.009



Ref. 4800-gm.dwg
Basemap from Cellier-Ryan, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-4800
1700 Castro Street
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
SEPTEMBER 29, 1999

FIGURE:

1

PROJECT:
DACC

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
MW-1											
06/04/97	30.75	4.39	25.82	--	890	100	110	29	150	<10	71*
09/16/97	30.75	4.85	25.90	--	1600	210	210	60	250	<10	75*
12/17/97	30.75	4.88	25.87	--	940	120	100	41	160	<25	65*
03/18/98	30.75	5.90	24.85	--	530	91	39	22	65	6.8	77*
06/28/98	30.75	5.92	24.83	--	1100	220	140	37	120	14	140*
09/07/98	30.75	5.56	25.19	--	1700	530	86	84	240	49	280*
12/09/98	30.75	5.10	25.65	--	1700	240	130	100	270	32	240*
03/11/99	30.75	5.30	25.45	--	353	53.9	28.6	20.5	56.1	14.1	98*
06/17/99	30.75	5.39	25.36	--	810	270	150	95	340	15	217*
09/29/99	30.75	5.13	25.62	--	659	76	49.7	35.1	118	12.6	153*
MW-2											
06/04/97	30.00	5.13	24.87	--	13,000	790	30	420	1700	4000	4000*
09/16/97	30.00	5.06	24.94	--	4000	360	9.7	210	460	1500	2200*
12/17/97	30.00	5.18	24.82	--	4100	380	<10	200	460	2100	2100*
03/18/98	30.00	6.43	23.57	--	8400	1800	<50	350	630	13,000	3700*
06/28/98	30.00	6.21	23.79	EPA 8260	9300	740	340	710	2300	3800	4400*
09/07/98	30.00	5.78	24.22	--	9900	1000	150	640	1800	4500	3100*
09/07/98	30.00	5.78	24.22	Confirmation run	--	--	--	--	--	4100	--
12/09/98	30.00	5.31	24.69	--	8500	860	74	610	960	2600	1900*
12/09/98	30.00	5.31	24.69	Confirmation run	--	--	--	--	--	2600	--
03/11/99	30.00	5.79	24.21	--	12,500	1520	42.2	645	2250	3400	2700*
03/11/99	30.00	5.79	24.21	Confirmation run	--	--	--	--	--	5050	--
06/17/99	30.00	5.69	24.31	--	27,000	2200	260	1500	5900	4700	7150*
09/29/99	30.00	5.45	24.55	--	6910	582	11.1	491	1170	1970	3030*

* 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
MW-3											
06/04/97	31.32	5.27	26.05	--	190	26	20	1.5	16	8.2	<50
09/16/97	31.32	5.17	26.15	--	270	58	53	6.1	30	21	<50
12/17/97	31.32	5.22	26.10	--	290	50	54	8.1	37	21	<50
03/18/98	31.32	6.42	24.90	--	390	140	33	4.6	30	94	<50
06/28/98	31.32	6.39	24.93	--	290	90	11	1.6	13	150	<50
09/07/98	31.32	5.97	25.35	--	170	46	20	4.3	19	120	<50
12/09/98	31.32	5.41	25.91	--	660	120	93	22	72	150	55*
03/11/99	31.32	5.85	25.47	--	653	136	69.5	13.7	63.8	144	<50
06/17/99	31.32	5.90	25.42	--	530	190	110	24	88	210	103*
09/29/99	31.32	5.61	25.71	--	433	97.8	61.4	16.9	56.6	156	232*
MW-4											
04/08/99	30.13	--	--	**	130	3.1	<0.5	<0.5	7.7	4700	--
06/17/99	30.13	5.19	24.94	--	590	58	<5.0	<5.0	160	6200	3780*
09/29/99	30.13	4.96	25.17	--	692	10.7	<2.5	5.51	236	7840	1130*
MW-5											
04/08/99	30.93	--	--	**	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
06/17/99	30.93	4.93	26.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	53.8*
09/29/99	30.93	4.73	26.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
MW-6											
04/08/99	30.58	--	--	**	<50	<0.5	<0.5	<0.5	<0.5	4.5	--
06/17/99	30.58	5.99	24.59	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50
09/29/99	30.58	5.81	24.77	--	<50	<0.5	<0.5	<0.5	<0.5	4.46	<50

* Chromatogram pattern indicates an unidentified hydrocarbon.

** See Table of Additional Analyses.

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
TRIP BLANK											
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
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	--
12/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
06/17/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Cumulative Table of Well Data and Analytical Results

ADDITIONAL ANALYSES

Analytical values are in parts per billion (ppb)

DATE	Notes	Ethanol	t- Butanol	MTBE	DIPE	ETBE	TAME
MW-4							
04/08/99	--	<25,000	<5000	5400	<100	<100	<100
MW-5							
04/08/99	--	<500	<100	<2.0	<2.0	<2.0	<2.0
MW-6							
04/08/99	--	<500	<100	5.6	<2.0	<2.0	<2.0

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on December 9, 1998. Earlier field data and analytical results are drawn from the September 7, 1998, Gettler-Ryan, Inc. report. Earlier analytical results for MW-4, MW-5, MW-6 are drawn from the Gettler-Ryan sampling on April 8, 1999. Site resurveyed by Virgil Chavez Land Surveying on June 18, 1999.

ABBREVIATIONS:

DIPE = Di-Isopropyl Ether

ETBE = Ethyl t-Butyl Ether

TAME = t-Amyl Methyl Ether

TPH = Total Petroleum Hydrocarbons

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

MTBE = Methyl-tert-butyl ether

Analytical Appendix



October 19, 1999

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

RE: Chevron 9-4800/M909ACC

Dear Scott Boor

Enclosed are the results of analyses for sample(s) received by the laboratory on September 30, 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 9-4800 (1700 Castro St., Oakland) Project Number: 990929-I2 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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ANALYTICAL REPORT FOR M909ACC

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M909ACC-01	Water	9/29/99
MW-2	M909ACC-02	Water	9/29/99
MW-3	M909ACC-03	Water	9/29/99
MW-4	M909ACC-04	Water	9/29/99
MW-5	M909ACC-05	Water	9/29/99
MW-6	M909ACC-06	Water	9/29/99
TB	M909ACC-07	Water	9/29/99





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4800 (1700 Castro St., Oakland) Project Number: 990929-12 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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				M909ACC-01			Water	
Purgeable Hydrocarbons	9100344	10/11/99	10/12/99		100	659	ug/l	1,D
Benzene	"	"	"		1.00	76.0	"	D
Toluene	"	"	"		1.00	49.7	"	D
Ethylbenzene	"	"	"		1.00	35.1	"	D
Xylenes (total)	"	"	"		1.00	118	"	D
Methyl tert-butyl ether	"	"	"		2.50	12.6	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		84.3	%	
MW-2				M909ACC-02			Water	
Purgeable Hydrocarbons	9100275	10/11/99	10/11/99		500	6910	ug/l	1,D
Benzene	"	"	"		5.00	582	"	D
Toluene	"	"	"		5.00	11.1	"	D
Ethylbenzene	"	"	"		5.00	491	"	D
Xylenes (total)	"	"	"		5.00	1170	"	D
Methyl tert-butyl ether	"	"	"		25.0	1970	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		117	%	
MW-3				M909ACC-03			Water	
Purgeable Hydrocarbons	9100345	10/12/99	10/12/99		100	433	ug/l	1,D
Benzene	"	"	"		1.00	97.8	"	D
Toluene	"	"	"		1.00	61.4	"	D
Ethylbenzene	"	"	"		1.00	16.9	"	D
Xylenes (total)	"	"	"		1.00	56.6	"	D
Methyl tert-butyl ether	"	"	10/11/99		2.50	156	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	10/12/99	70.0-130		107	%	
MW-4				M909ACC-04			Water	
Purgeable Hydrocarbons	9100386	10/13/99	10/13/99		250	692	ug/l	2,D
Benzene	"	"	"		2.50	10.7	"	D
Toluene	"	"	"		2.50	ND	"	D
Ethylbenzene	"	"	"		2.50	5.51	"	D
Xylenes (total)	"	"	"		2.50	236	"	D
Methyl tert-butyl ether	"	"	"		125	7840	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		90.2	%	
MW-5				M909ACC-05			Water	
Purgeable Hydrocarbons	9100274	10/11/99	10/11/99		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 9-4800 (1700 Castro St., Oakland) Project Number: 990929-12 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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-5 (continued)				M909ACC-05			Water	
Methyl tert-butyl ether	9100274	10/11/99	10/11/99		2.50	ND	ug/l	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		101	%	
MW-6				M909ACC-06			Water	
Purgeable Hydrocarbons	9100274	10/11/99	10/11/99		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	4.46	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		100	%	
TB				M909ACC-07			Water	
Purgeable Hydrocarbons	9100274	10/11/99	10/11/99		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: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		101	%	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4800 (1700 Castro St., Oakland) Project Number: 990929-12 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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*
MW-1				M909ACC-01			Water	
Diesel Range Hydrocarbons	9100176	10/6/99	10/9/99		0.0500	0.153	mg/l	3
Surrogate: n-Pentacosane	"	"	"	50.0-150		78.6	%	
MW-2				M909ACC-02			Water	
Diesel Range Hydrocarbons	9100176	10/6/99	10/9/99		0.0500	3.03	mg/l	3
Surrogate: n-Pentacosane	"	"	"	50.0-150		97.6	%	
MW-3				M909ACC-03			Water	
Diesel Range Hydrocarbons	9100191	10/7/99	10/14/99		0.0500	0.232	mg/l	3
Surrogate: n-Pentacosane	"	"	"	50.0-150		108	%	
MW-4				M909ACC-04			Water	
Diesel Range Hydrocarbons	9100191	10/7/99	10/14/99		0.0500	1.13	mg/l	3
Surrogate: n-Pentacosane	"	"	"	50.0-150		89.0	%	
MW-5				M909ACC-05			Water	
Diesel Range Hydrocarbons	9100191	10/7/99	10/14/99		0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	50.0-150		125	%	
MW-6				M909ACC-06			Water	
Diesel Range Hydrocarbons	9100191	10/7/99	10/14/99		0.0500	ND	mg/l	
Surrogate: n-Pentacosane	"	"	"	50.0-150		115	%	





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4800 (1700 Castro St., Oakland) Project Number: 990929-I2 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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: 9100274		Date Prepared: 10/11/99		Extraction Method: EPA 5030B [P/T]						
Blank		9100274-BLK1								
Purgeable Hydrocarbons	10/11/99			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		10.6	"	70.0-130	106			
LCS		9100274-BS1								
Benzene	10/11/99	10.0		9.22	ug/l	70.0-130	92.2			
Toluene	"	10.0		9.25	"	70.0-130	92.5			
Ethylbenzene	"	10.0		9.45	"	70.0-130	94.5			
Xylenes (total)	"	30.0		27.6	"	70.0-130	92.0			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.2	"	70.0-130	102			
Matrix Spike		9100274-MS1 M909ACA-02								
Benzene	10/11/99	10.0	0.662	9.70	ug/l	60.0-140	90.4			
Toluene	"	10.0	ND	8.90	"	60.0-140	89.0			
Ethylbenzene	"	10.0	ND	9.09	"	60.0-140	90.9			
Xylenes (total)	"	30.0	ND	27.4	"	60.0-140	91.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.74	"	70.0-130	97.4			
Matrix Spike Dup		9100274-MSD1 M909ACA-02								
Benzene	10/11/99	10.0	0.662	10.9	ug/l	60.0-140	102	25.0	12.1	
Toluene	"	10.0	ND	9.23	"	60.0-140	92.3	25.0	3.64	
Ethylbenzene	"	10.0	ND	9.38	"	60.0-140	93.8	25.0	3.14	
Xylenes (total)	"	30.0	ND	27.6	"	60.0-140	92.0	25.0	0.764	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.28	"	70.0-130	92.8			
Batch: 9100275		Date Prepared: 10/11/99		Extraction Method: EPA 5030B [P/T]						
Blank		9100275-BLK1								
Purgeable Hydrocarbons	10/11/99			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		11.0	"	70.0-130	110			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4800 (1700 Castro St., Oakland) Project Number: 990929-I2 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100345			Date Prepared: 10/12/99			Extraction Method: EPA 5030B (P/T)				
Blank			9100345-BLK1							
Purgeable Hydrocarbons	10/12/99			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		10.8	"	70.0-130	108			
LCS			9100345-BS1							
Purgeable Hydrocarbons	10/12/99	250		243	ug/l	70.0-130	97.2			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		15.1	"	70.0-130	151			5
Matrix Spike			9100345-MS1		M910040-06					
Purgeable Hydrocarbons	10/12/99	250	ND	234	ug/l	60.0-140	93.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.8	"	70.0-130	128			
Matrix Spike Dup			9100345-MSD1		M910040-06					
Purgeable Hydrocarbons	10/12/99	250	ND	261	ug/l	60.0-140	104	25.0	10.5	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.6	"	70.0-130	126			
Batch: 9100386			Date Prepared: 10/13/99			Extraction Method: EPA 5030B (P/T)				
Blank			9100386-BLK1							
Purgeable Hydrocarbons	10/13/99			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		10.2	"	70.0-130	102			
LCS			9100386-BS1							
Benzene	10/13/99	10.0		10.0	ug/l	70.0-130	100			
Toluene	"	10.0		10.0	"	70.0-130	100			
Ethylbenzene	"	10.0		10.3	"	70.0-130	103			
Xylenes (total)	"	30.0		30.2	"	70.0-130	101			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			
Matrix Spike			9100386-MS1		M910241-02					
Benzene	10/13/99	10.0	ND	9.40	ug/l	60.0-140	94.0			
Toluene	"	10.0	ND	9.45	"	60.0-140	94.5			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4800 (1700 Castro St., Oakland) Project Number: 990929-I2 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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>Matrix Spike (continued)</u>		<u>9100386-MS1</u>	<u>M910241-02</u>							
Ethylbenzene	10/13/99	10.0	ND	9.63	ug/l	60.0-140	96.3			
Xylenes (total)	"	30.0	ND	27.9	"	60.0-140	93.0			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.08	"	70.0-130	90.8			
<u>Matrix Spike Dup</u>		<u>9100386-MSD1</u>	<u>M910241-02</u>							
Benzene	10/13/99	10.0	ND	9.70	ug/l	60.0-140	97.0	25.0	3.14	
Toluene	"	10.0	ND	9.70	"	60.0-140	97.0	25.0	2.61	
Ethylbenzene	"	10.0	ND	9.80	"	60.0-140	98.0	25.0	1.75	
Xylenes (total)	"	30.0	ND	28.9	"	60.0-140	96.3	25.0	3.49	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	10.0		9.68	"	70.0-130	96.8			





Blaine Tech Services (Chev) 1680 Rogers Avenue San Jose, CA 95112	Project: Chevron 9-4800 (1700 Castro St., Oakland) Project Number: 990929-I2 Project Manager: Scott Boor	Sampled: 9/29/99 Received: 9/30/99 Reported: 10/19/99
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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: 9100176			Date Prepared: 10/6/99			Extraction Method: EPA 3510B				
Blank			9100176-BLK1							
Diesel Range Hydrocarbons	10/9/99			ND	mg/l	0.0500				
Surrogate: n-Pentacosane	"	0.100		0.0920	"	50.0-150	92.0			
LCS			9100176-BS1							
Diesel Range Hydrocarbons	10/9/99	1.00		0.820	mg/l	60.0-140	82.0			
Surrogate: n-Pentacosane	"	0.100		0.0954	"	50.0-150	95.4			
LCS Dup			9100176-BSD1							
Diesel Range Hydrocarbons	10/11/99	1.00		0.822	mg/l	60.0-140	82.2	50.0	0.244	
Surrogate: n-Pentacosane	"	0.100		0.0943	"	50.0-150	94.3			
Batch: 9100191			Date Prepared: 10/7/99			Extraction Method: EPA 3510B				
Blank			9100191-BLK1							
Diesel Range Hydrocarbons	10/12/99			ND	mg/l	0.0500				
Surrogate: n-Pentacosane	"	0.100		0.0926	"	50.0-150	92.6			
LCS			9100191-BS1							
Diesel Range Hydrocarbons	10/12/99	1.00		0.870	mg/l	60.0-140	87.0			
Surrogate: n-Pentacosane	"	0.100		0.0999	"	50.0-150	99.9			
LCS Dup			9100191-BSD1							
Diesel Range Hydrocarbons	10/12/99	1.00		0.823	mg/l	60.0-140	82.3	50.0	5.55	
Surrogate: n-Pentacosane	"	0.100		0.103	"	50.0-150	103			





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

Project: Chevron 9-4800 (1700 Castro St., Oakland)
Project Number: 990929-I2
Project Manager: Scott Boor

Sampled: 9/29/99
Received: 9/30/99
Reported: 10/19/99

Notes and Definitions

#	Note
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D	Data reported from a dilution.
1	Chromatogram Pattern: Gasoline C6-C12
2	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
3	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
4	The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
5	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



Chromatogram

M909ACC-4RE

File : S:\GHP_02\1017\013A024.raw

Method : TPH

Start Time : 0.00 min

End Time : 20.50 min

Scale Factor: -1.0

Plot Offset: 10 mV

Sample #: MW-4

Page 1 of 1

Date : 10/14/99 08:28

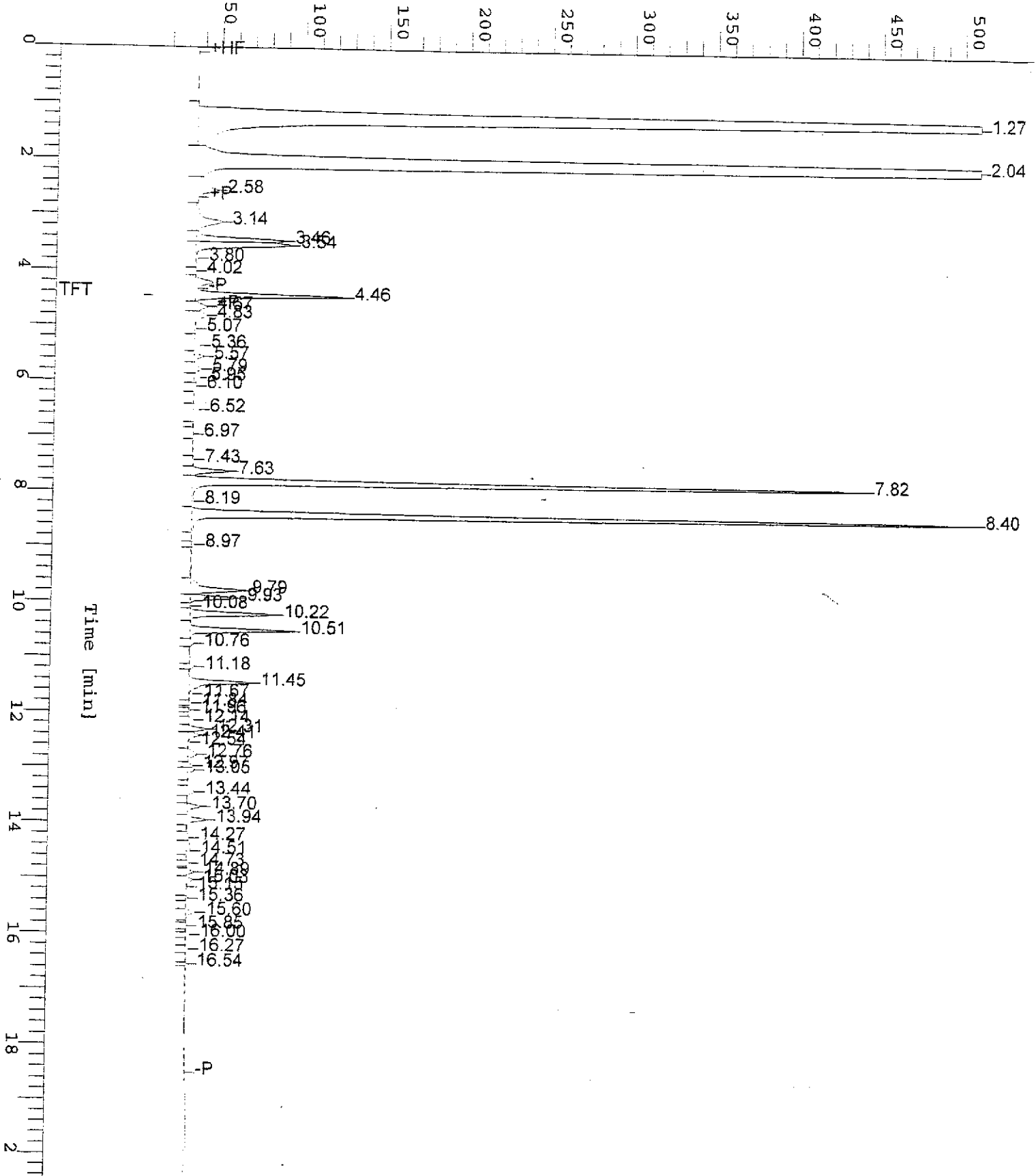
Time of Injection: 10/13/99 21:17

Low Point : 10.11 mV

High Point : 510.11 mV

Plot Scale: 500.0 mV

Response [mV]

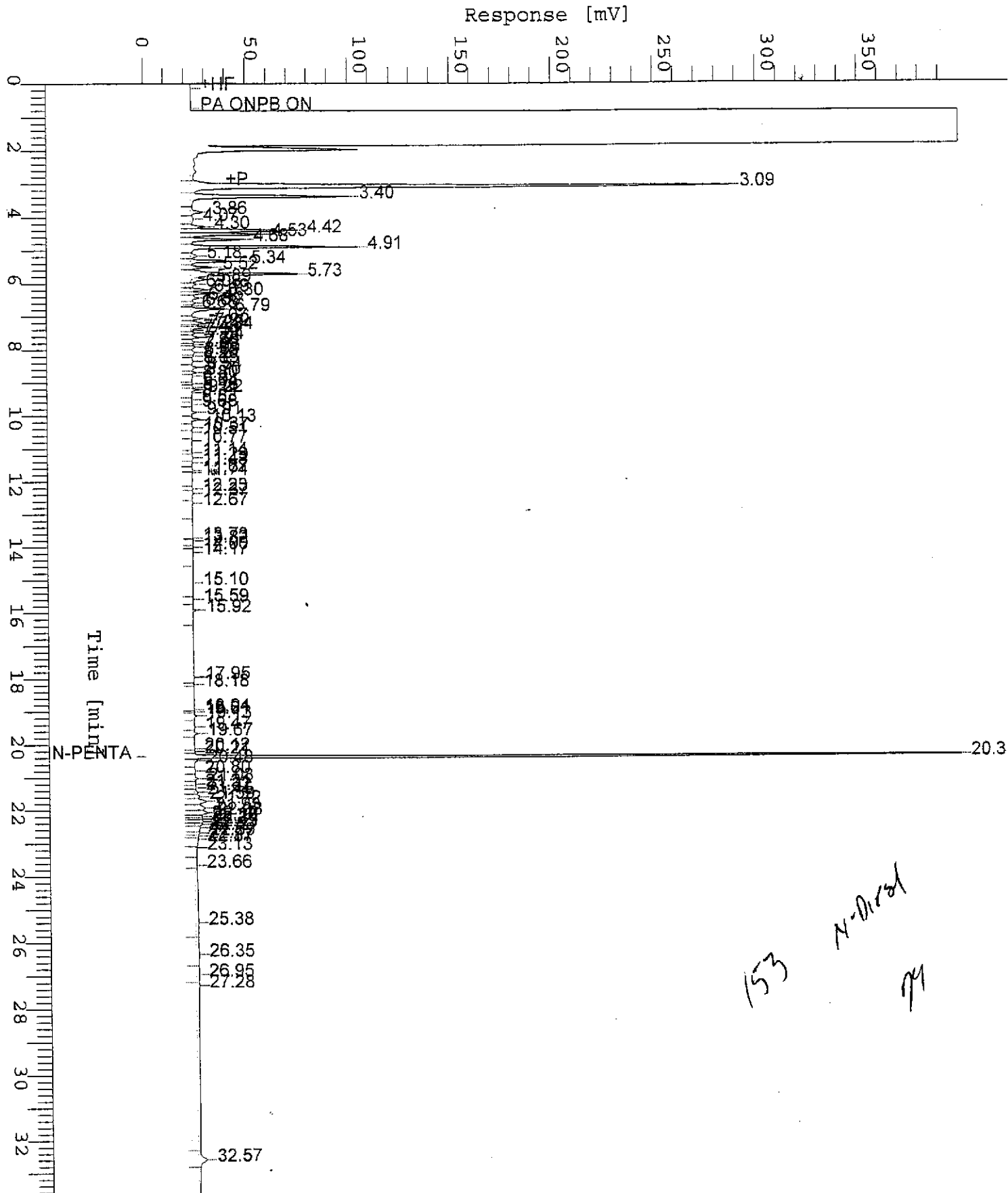


Chromatogram

Sample Name : M909ACC-01 (500:1)
FileName : S:\GHP_05\1010\008B042.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor : 0.0

End Time : 33.65 min
Plot Offset: 0 mV

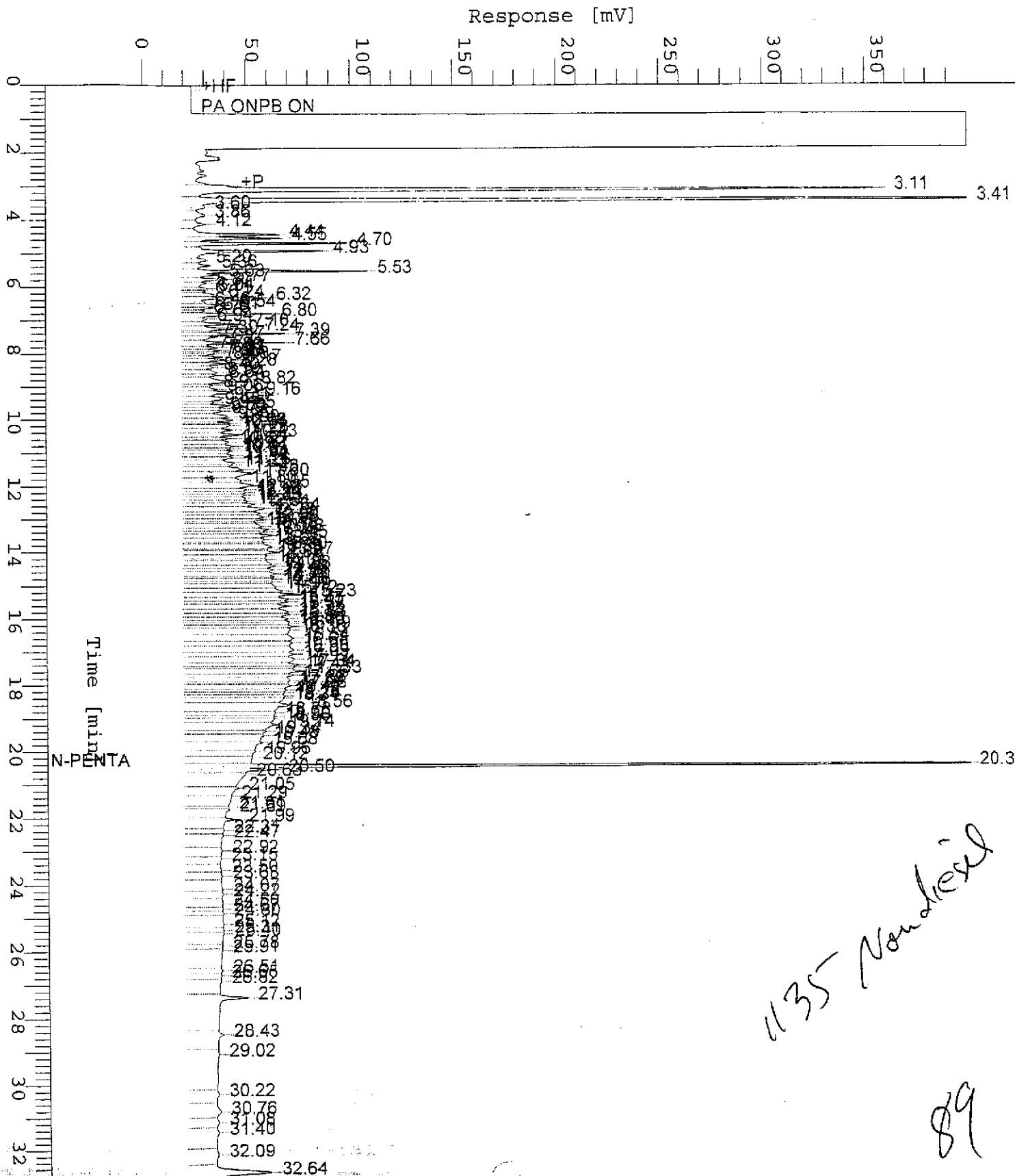
Sample #: MW-1
Date : 10/9/99 17:03
Time of Injection: 10/9/99 16:29
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



Chromatogram

Sample Name : M909ACC-04 (30:1)RS
FileName : S:\GHP_05\1017\013B012.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: MW-4
Date : 10/14/99 06:20
Time of Injection: 10/13/99 19:51
Low Point : 0.00 mV
Plot Scale: 400.0 mV
End Time : 33.65 min
Plot Offset: 0 mV
High Point : 400.00 mV

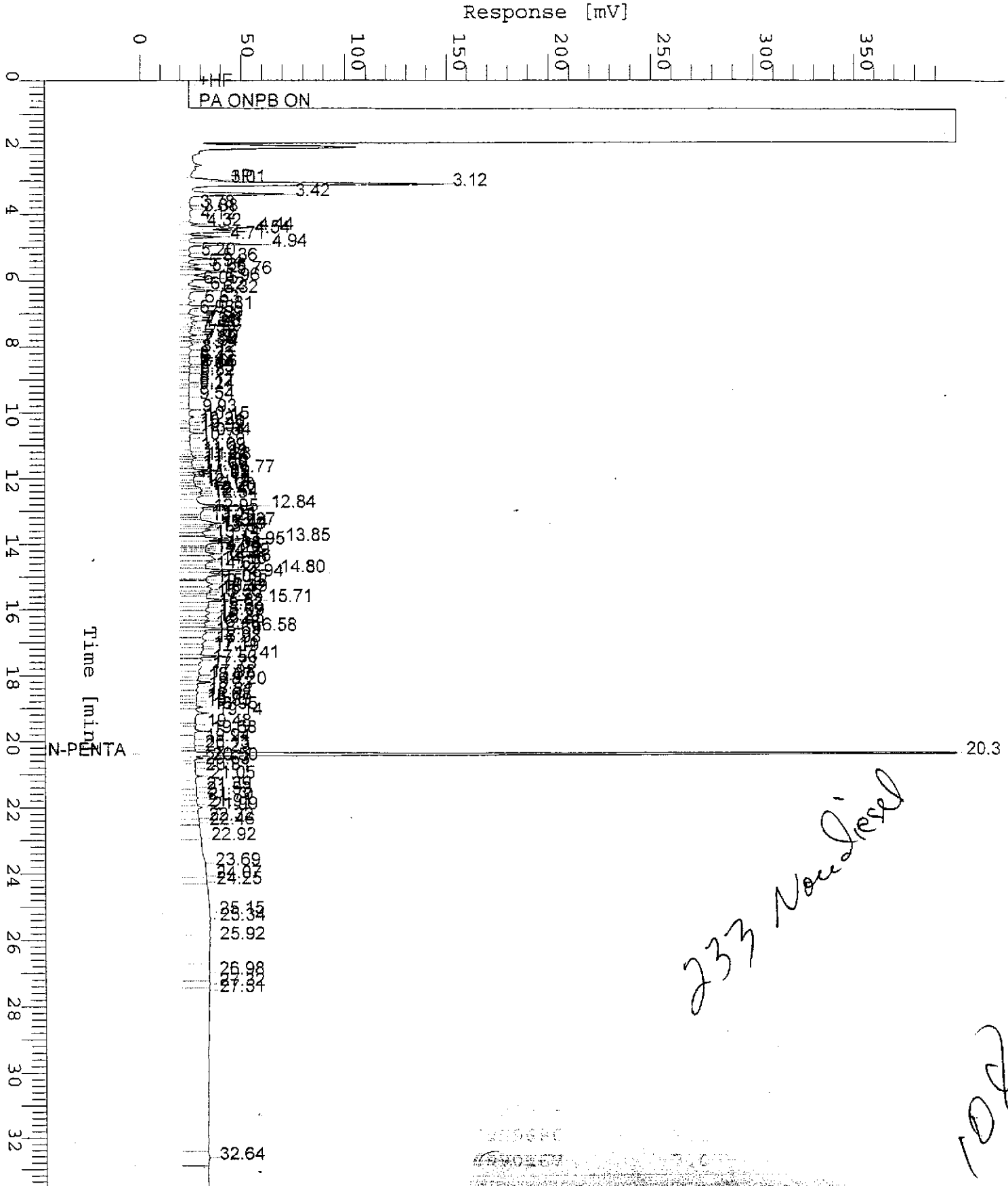


Chromatogram

Sample Name : M909ACC-03 (30:1)RS
File Name : S:\GHP_05\1017\013B011.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: MW-3
Date : 10/14/99 06:20
Time of Injection: 10/13/99 19:10
Low Point : 0.00 mV
Plot Scale: 400.0 mV
High Point : 400.00 mV



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Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

Project #: 990929-I	Station #: 9-4800
Sampler: P.F.	Date: 9-29-99
Well I.D.: MW-1	Well Diameter: ② 3 4 6 8
Total Well Depth: 29.92	Depth to Water: 25.62
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>.6</u>	\times	<u>3</u>	$=$	<u>1.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1042	69.2	7.9	930	.75	
1043	68.8	7.8	950	1.25	
1044	68.7	7.8	950	2.0	

Did well dewater? Yes No Gallons actually evacuated: 2.0

Sampling Time: 1046 Sampling Date: 9-29

Sample I.D.: MW-1 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
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:

CHEVRON WELL MONITORING DATA SHEET

Project #: 990929-I1	Station #: 9-4800
Sampler: P.F.	Date: 9-29-99
Well I.D.: MW-2	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 30.25	Depth to Water: 24.55
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>0.9</u>	\times	<u>3</u>	$=$	<u>2.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1114	69.5	7.5	1200	1	
1116	69.5	7.8	1180	2	
1118	69.4	7.9	1160	2.75	

Did well dewater? Yes No Gallons actually evacuated: 2.75

Sampling Time: 1120 Sampling Date: 9-29

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 990929-I	Station #: 9-4800
Sampler: P.F.	Date: 9-29-99
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8
Total Well Depth: 29.89	Depth to Water: 25.71
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: _____

.6	x	3	=	1.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1023	68.9	7.8	1130	.75	
1024	68.6	7.7	1090	1.5	
1025	68.4	7.7	1080	2.0	

Did well dewater? Yes No Gallons actually evacuated: 2.0

Sampling Time: 1029 Sampling Date: 9-29

Sample I.D.: MW-3 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 #: 990929-I	Station #: 9-4800
Sampler: P.F.	Date: 9-29-99
Well I.D.: MW-4	Well Diameter: ② 3 4 6 8
Total Well Depth: 29.00	Depth to Water: 25.17
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: _____

.6	x	3	=	1.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1058	69.1	7.5	910	.75	
1059	68.6	7.4	900	1.25	
1100	68.3	7.4	900	2.0	

Did well dewater? Yes No Gallons actually evacuated: 2.0

Sampling Time: 1102 Sampling Date: 9-29

Sample I.D.: MW-4 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 #: 990929-I	Station #: 9-4800
Sampler: P.F.	Date: 9-29-99
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8
Total Well Depth: 28.28	Depth to Water: 26.20
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: _____

.3	x	3	=	.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1002	69.0	7.4	1120	.5	
1003	69.0	7.3	1170	.75	
1004	68.9	7.3	1180	1.0	

Did well dewater? Yes No Gallons actually evacuated: 1.0

Sampling Time: 10:07 Sampling Date: 9-29

Sample I.D.: MW-5 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 990929-I1	Station #: 9-4800
Sampler: P.F.	Date: 9-29-99
Well I.D.: MW-6	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 28.34	Depth to Water: 24.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVC</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: _____

.5	x	3	=	1.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
941	71.0	8.2	1220	.5	
942	70.4	7.6	1200	1	
943	70.2	7.4	1160	1.5	

Did well dewater? Yes No Gallons actually evacuated: 1.5

Sampling Time: 945 Sampling Date: 9-29

Sample I.D.: MW-6 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV