

release 583 017  
Seattle Housing Authority  
Maint # & Pkg Lot #  
Seattle S/T 2,3,1



# GETTLER-RYAN INC.

## TRANSMITTAL

January 15, 2003  
G-R #386750

TO: Mr. Matt Miller  
Delta Environmental Consultants, Inc.  
1200-112th Avenue N. E., Suite C-146,  
Bellevue, Washington 98004-3769

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

RE: Former Chevron Service Station  
#209335  
1225 North 45<sup>th</sup> Street  
Seattle, Washington

RECEIVED  
FEB 05 2003  
DEPT OF ECOLOG

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 14, 2003	Groundwater Monitoring and Sampling Report Event of March 8, 2002 Event of May 29, 2002 Event of September 16, 2002 Event of December 5, 2002

### COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **January 31, 2003**, at which time the final report will be distributed to the following:

- cc: Mr. Brett Hunter, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583
- Mr. John Wietfeld, WDOE Northwest Region, 3190 160<sup>th</sup> Avenue S.E., Bellevue, WA 98008
- Mr. Larry Hard, Seattle Housing Authority, 120 Sixth Avenue North, Seattle, WA 98109-5003

Current Site Check List included.

Enclosure

cm  
ENTERED  
2/7/03



# GETTLER - RYAN Inc.

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January 14, 2003  
Job #386750

Mr. Brett Hunter  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: Event of March 8, 2002**  
**Event of May 29, 2002**  
**Event of September 16, 2002**  
**Event of December 5, 2002**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #209335  
1225 North 45<sup>th</sup> Street  
Seattle, Washington

Dear Mr. Hunter:

This report documents the monthly site visits and groundwater monitoring and sampling events performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. **Separate-phase hydrocarbons were present in two wells (MW-2 and MW-5).** Static water level data and groundwater elevations are presented in Table 1. Separate Phase Hydrocarbon Thickness/Removal Data is presented in Table 2. Potentiometric Maps are included as Figures 1, 3, 5, and 7.

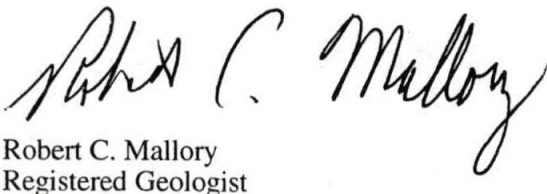
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. Concentration Maps are included as Figures 2, 4, 6, and 8. The chain of custody document and laboratory analytical reports are attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,



Deanna L. Harding  
Project Coordinator



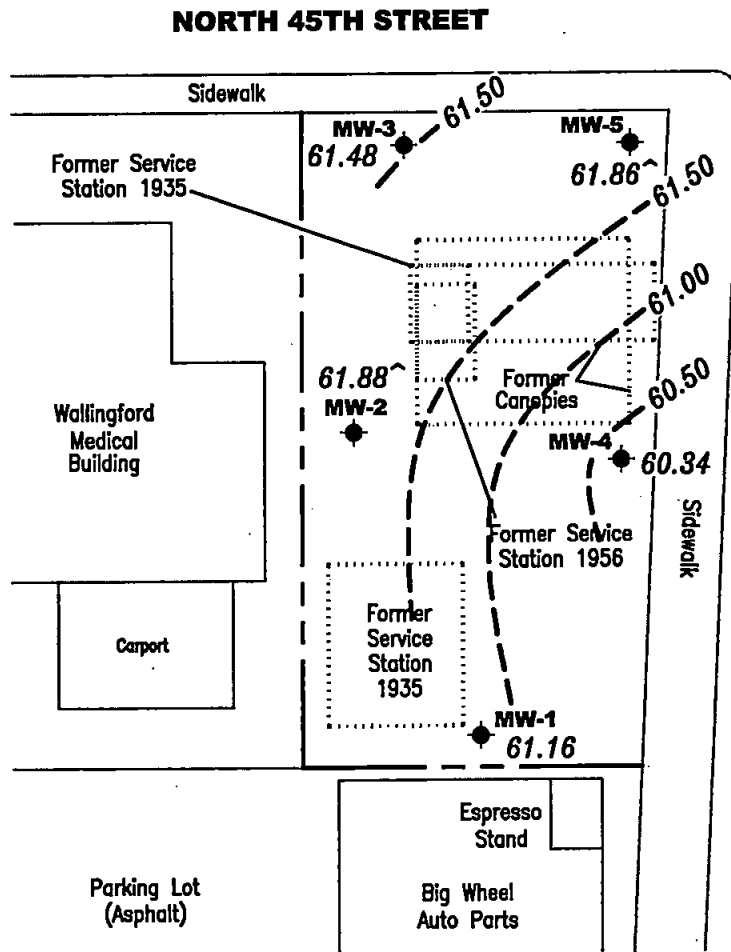
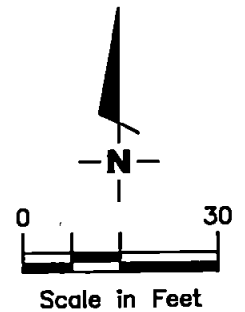
Robert C. Mallory  
Registered Geologist

Figure 1:	Potentiometric Map - March 8, 2002
Figure 2:	Concentration Map - March 8, 2002
Figure 3:	Potentiometric Map - May 29, 2002
Figure 4:	Concentration Map - May 29, 2002
Figure 5:	Potentiometric Map - September 16, 2002
Figure 6:	Concentration Map - September 16, 2002
Figure 7:	Potentiometric Map - December 5, 2002
Figure 8:	Concentration Map - December 5, 2002
Table 1:	Groundwater Monitoring Data and Analytical Results
Table 2:	Separate Phase Hydrocarbon Thickness/Removal Data
Attachments:	Standard Operating Procedure - Groundwater Sampling Field Data Sheets Chain of Custody Document and Laboratory Analytical Reports

**EXPLANATION**

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to an arbitrary datum
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
- Groundwater elevation corrected for the presence of SPH

Groundwater flow direction varies at a gradient of 0.01 to 0.04 Ft./Ft.



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE  
**1**

PROJECT NUMBER  
**386750**

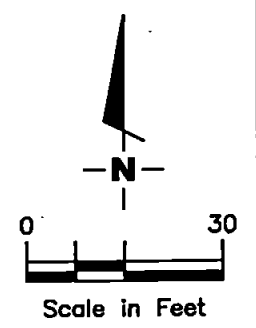
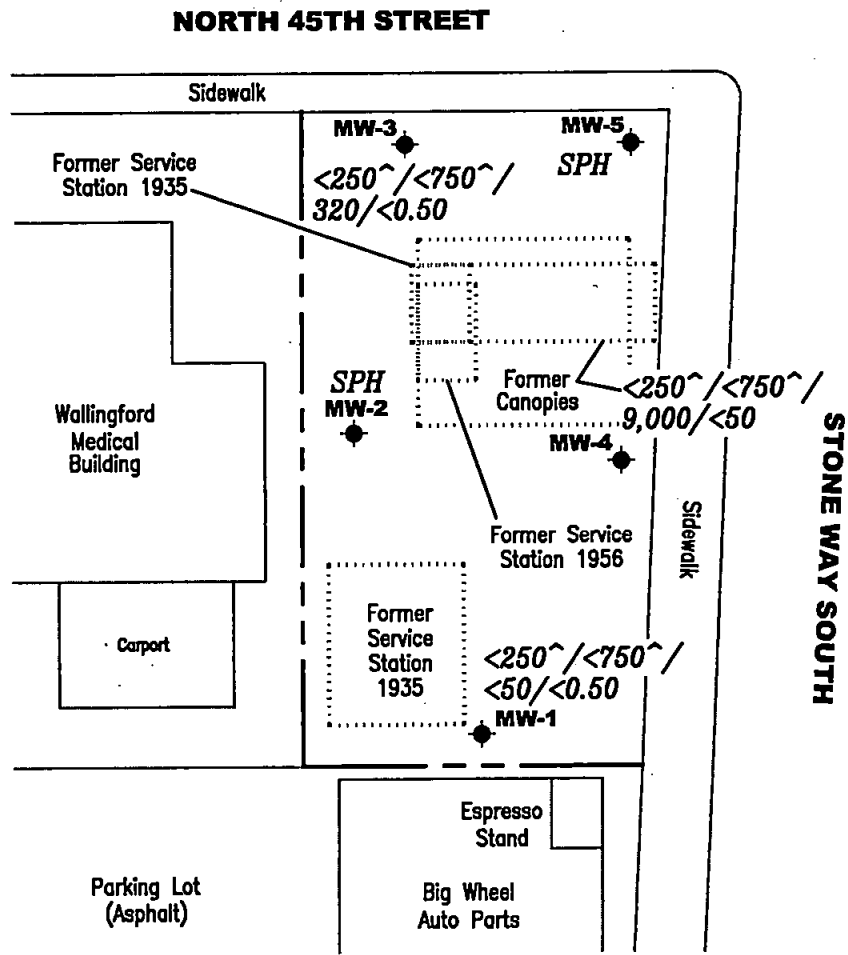
REVIEWED BY

DATE  
**March 8, 2002**

REVISED DATE

**EXPLANATION**

- ◆ Groundwater monitoring well
- A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene concentrations in ppb
- ^ w/silica gel cleanup
- SPH Separate Phase Hydrocarbons



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

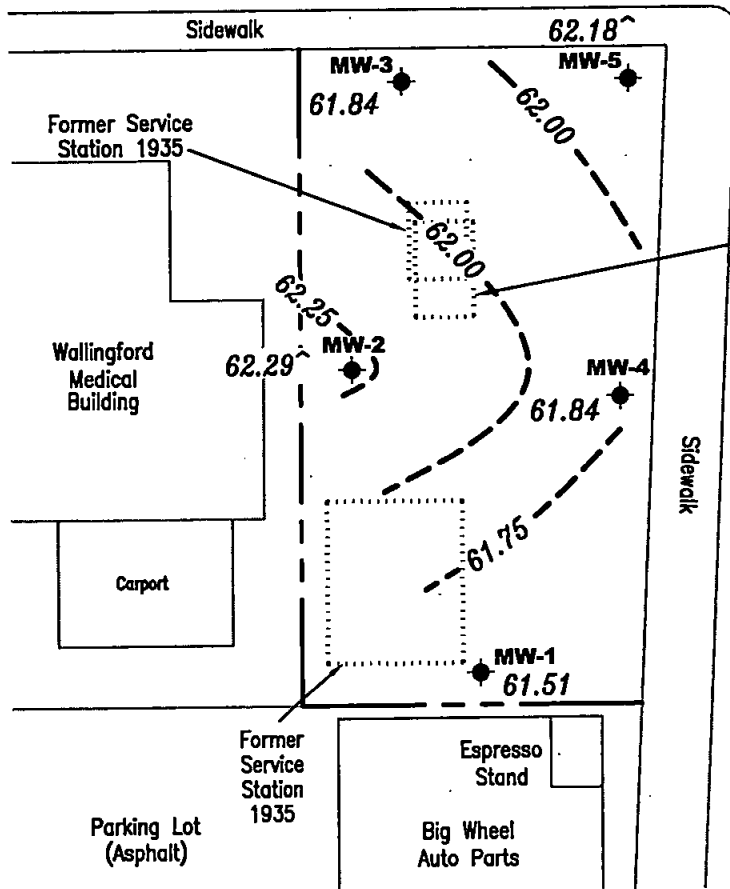
**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**CONCENTRATION MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE  
**2**

PROJECT NUMBER <b>386750</b>	REVIEWED BY	DATE March 8, 2002	REVISED DATE
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**NORTH 45TH STREET**

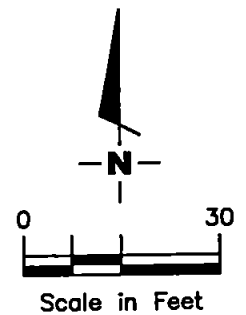


Former Service Station 1956

**STONE WAY SOUTH**

**EXPLANATION**

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to an arbitrary datum
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred.
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons
- Groundwater flow direction varies at a gradient of 0.01 Ft./Ft.



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE

**3**

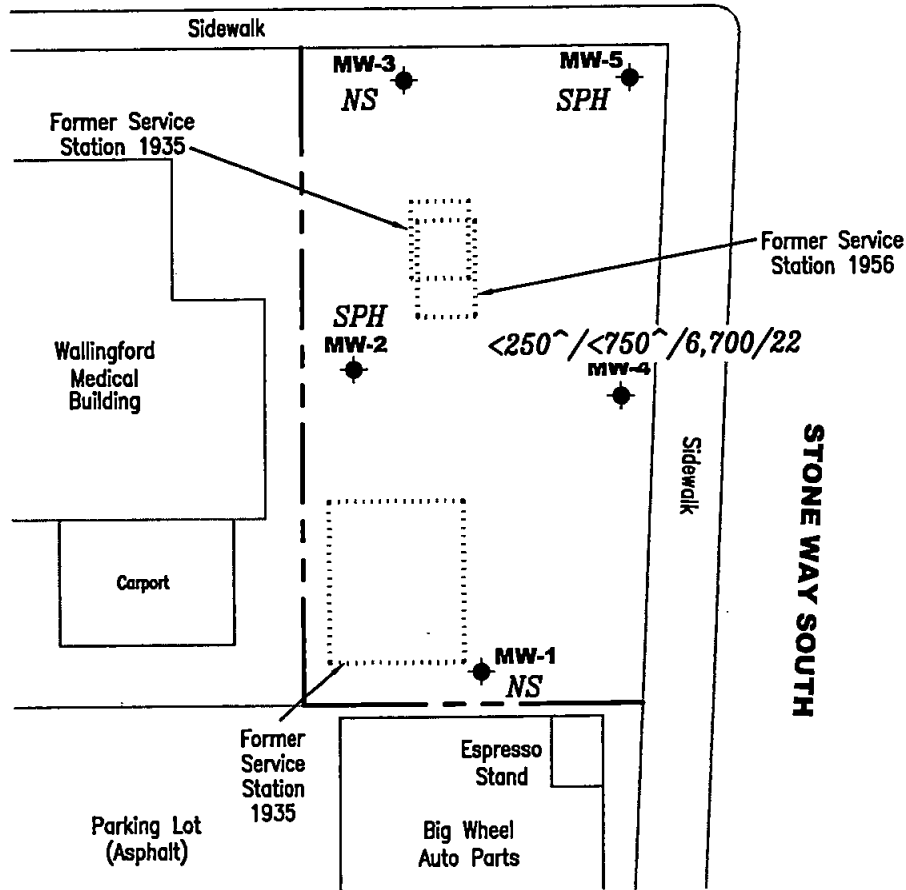
PROJECT NUMBER  
**386750**

REVIEWED BY

DATE  
 May 29, 2002

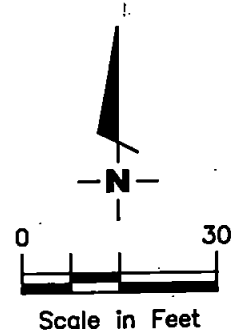
REVISED DATE

**NORTH 45TH STREET**



**EXPLANATION**

- ◆ Groundwater monitoring well
- A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene concentrations in ppb
- ^ w/silica gel clean up
- SPH Serparate Phase Hydrocarbons
- NS Not Sampled



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**CONCENTRATION MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE

**4**

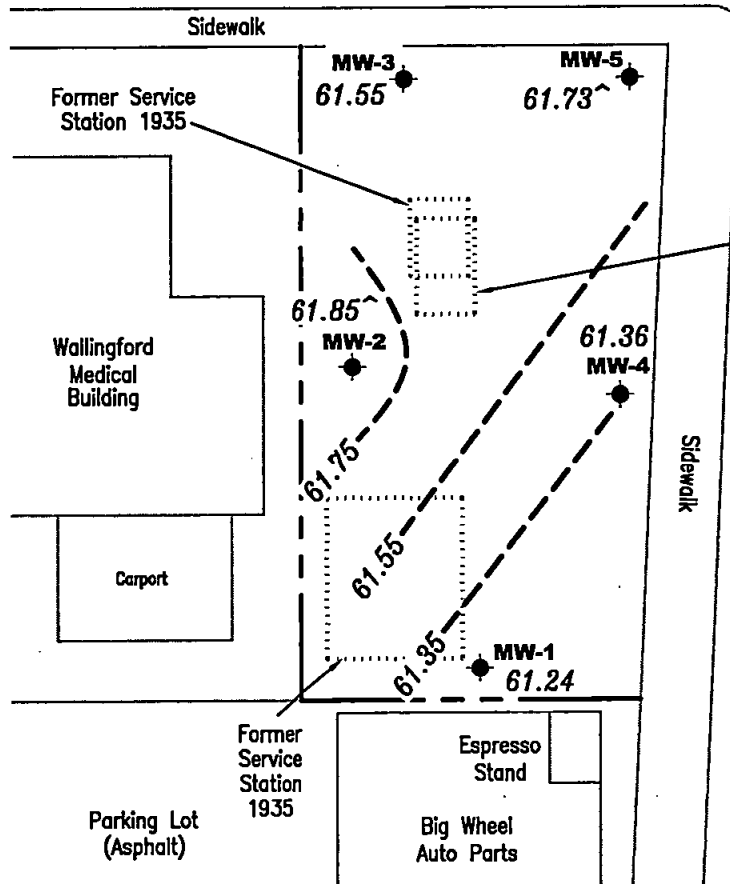
PROJECT NUMBER  
 386750

REVIEWED BY

DATE  
 May 29, 2002

REVISED DATE

**NORTH 45TH STREET**



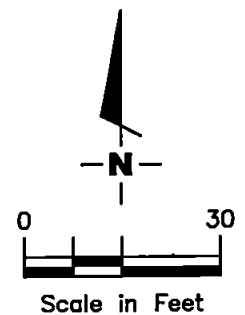
Approximate groundwater flow direction at a gradient of 0.01 Ft./Ft.

Former Service Station 1956

**STONE WAY SOUTH**

**EXPLANATION**

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to an arbitrary site datum
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE

**5**

PROJECT NUMBER  
**386750**

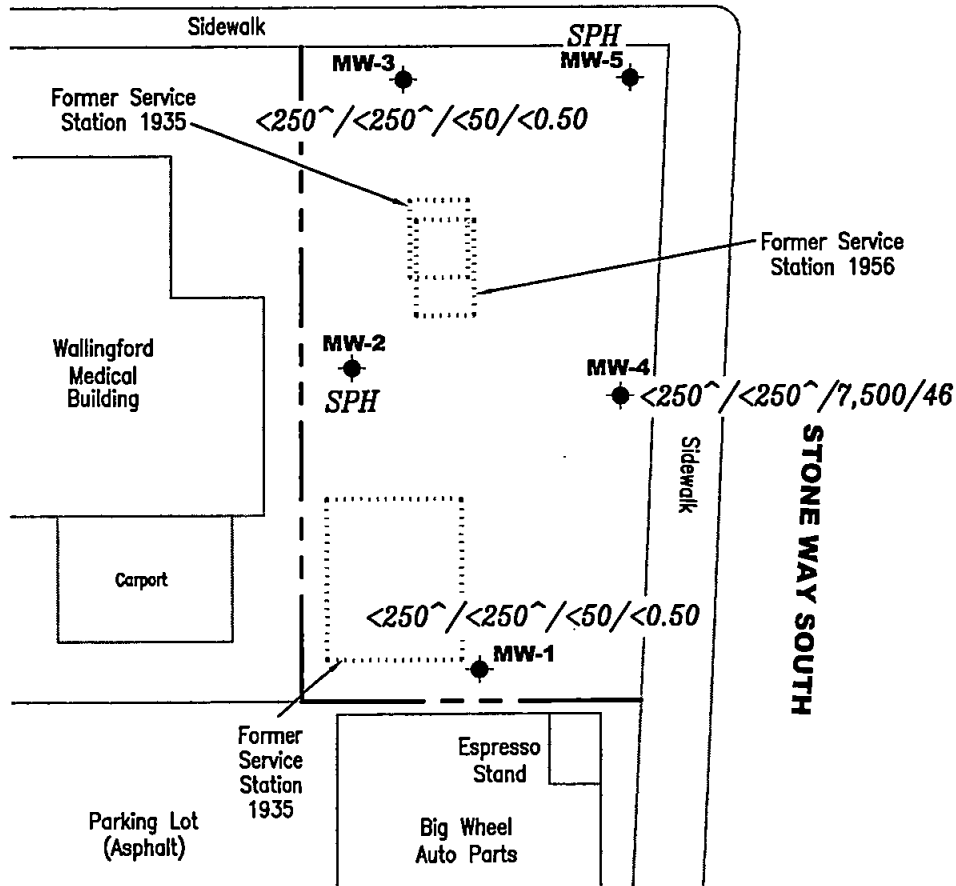
REVIEWED BY

DATE  
 September 16, 2002

REVISED DATE

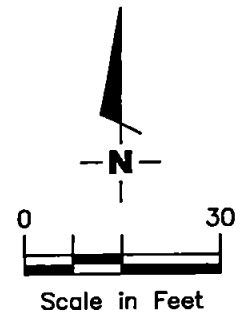


**NORTH 45TH STREET**



**EXPLANATION**

- ◆ Groundwater monitoring well
- A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene concentrations in ppb
- ^ w/silica gel clean up
- SPH Separate Phase Hydrocarbons



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**CONCENTRATION MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE  
**6**

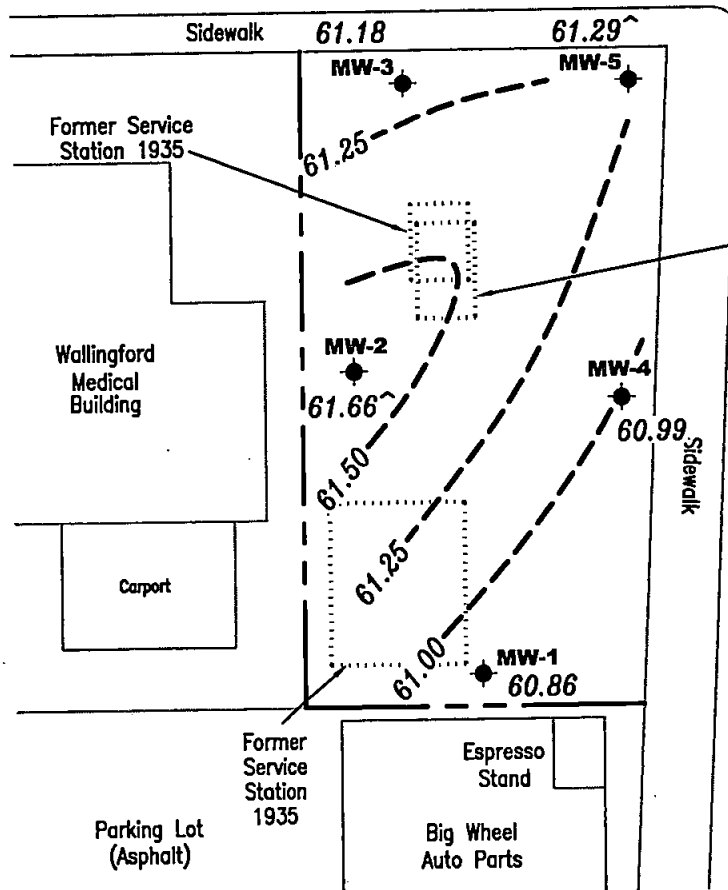
PROJECT NUMBER  
 386750

REVIEWED BY

DATE  
 September 16, 2002

REVISED DATE

**NORTH 45TH STREET**

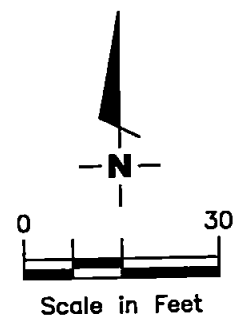


Former Service Station 1956

**STONE WAY SOUTH**

**EXPLANATION**

- ◆ Groundwater monitoring well
- 99.99 Groundwater elevation in feet referenced to an arbitrary site datum
- 99.99--- Groundwater elevation contour, dashed where inferred
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons
- Groundwater flow direction varies at a gradient of 0.01 to 0.02 Ft./Ft.



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE

**7**

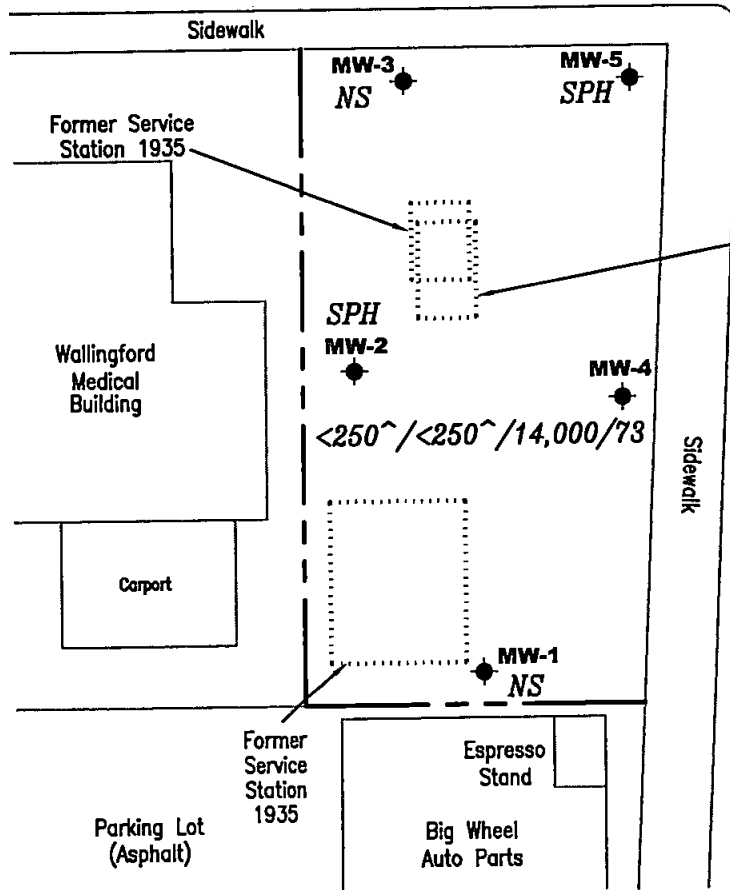
PROJECT NUMBER  
**386750**

REVIEWED BY

DATE  
 December 5, 2002

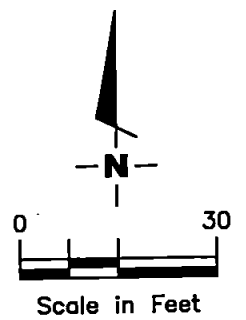
REVISED DATE

**NORTH 45TH STREET**



**EXPLANATION**

- ◆ Groundwater monitoring well
- A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene/concentrations in ppb
- ~ w/silica gel cleanup
- NS Not Sampled
- SPH Separate Phase Hydrocarbons



Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**CONCENTRATION MAP**  
 Former Chevron Service Station #209335  
 1225 North 45th Street  
 Seattle, Washington

FIGURE  
**8**

PROJECT NUMBER  
**386750**

REVIEWED BY

DATE  
 December 5, 2002

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station # 209335  
1225 North 45th Street  
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)	
<b>MW-1</b>														
97.95	10/11/00 <sup>1</sup>	34.50	63.45	--	--	--	--	--	--	--	--	--	--	
	12/16/00	35.91	62.04	0.00	ND <sup>2,3</sup>	ND <sup>2,3</sup>	74.4	ND	ND	ND	ND	ND	ND <sup>4</sup>	
	03/26/01	36.54	61.41	0.00	ND <sup>3</sup>	ND <sup>3</sup>	ND	ND	ND	ND	ND	ND	--	
	06/25/01	36.78	61.17	0.00	<281 <sup>3</sup>	<842 <sup>3</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	
	09/24/01	37.14	60.81	0.00	<250 <sup>3,8</sup>	<500 <sup>3,8</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--	
	12/13/01	37.25	60.70	0.00	<250 <sup>3</sup>	<500 <sup>3</sup>	<80.0	<0.500	<0.500	<0.500	<1.00	--	--	
NP	03/08/02	36.79	61.16	0.00	<250 <sup>3</sup>	<750 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	--	--	
	05/29/02	36.44	61.51	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	
NP	09/16/02	36.71	61.24	0.00	<250 <sup>3</sup>	<250 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	--	--	
	12/05/02	37.09	60.86	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	
<b>MW-2</b>														
98.70	10/11/00 <sup>1</sup>	34.50	64.20	--	--	--	--	--	--	--	--	--	--	
	12/16/00	36.46	62.24	0.00	1,000 <sup>3</sup>	ND <sup>3</sup>	28,100	283	2,560	693	4,020	ND <sup>2</sup>	0.00194 <sup>4</sup>	
	03/26/01	37.12	61.58	0.00	1,180 <sup>3,5</sup>	ND <sup>3</sup>	17,000	143	1,450	378	2,180	<sup>2</sup> ND/ND <sup>6</sup>	--	
	06/25/01	37.37	61.33	0.00	418 <sup>3,5</sup>	<750 <sup>3</sup>	11,700	92.3	547	181	1,010	--	--	
	09/24/01	37.72	60.98	0.00	4,840 <sup>3,7,8</sup>	<557 <sup>3,8</sup>	22,100	120	1,380	658	4,100	--	--	
	12/13/01	37.89	60.81	0.00	5,540 <sup>3,5</sup>	<500 <sup>3</sup>	84,000	185	3,960	1,590	9,950	--	--	
	03/08/02	37.24	62.07**	0.76	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--	--	--
	05/29/02	36.81	62.47**	0.73	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--	--	--
	09/16/02	37.19	61.85**	0.42	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--	--	--
	10/15/02	37.24	61.81**	0.44	--	--	--	--	--	--	--	--	--	
	11/22/02	37.12	61.99**	0.51	--	--	--	--	--	--	--	--	--	
	12/05/02	37.51	61.66**	0.59	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--	--	--
<b>MW-3</b>														
98.76	10/11/00 <sup>1</sup>	34.00	64.76	--	--	--	--	--	--	--	--	--	--	
	12/16/00	36.39	62.37	0.00	ND <sup>3</sup>	ND <sup>3</sup>	ND	ND	0.612	ND	1.95	ND	ND <sup>4</sup>	
	03/26/01	37.05	61.71	0.00	ND <sup>3</sup>	ND <sup>3</sup>	ND	ND	ND	ND	ND	ND	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station # 209335  
1225 North 45th Street  
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
MW-3	06/25/01	37.29	61.47	0.00	<250 <sup>3</sup>	<750 <sup>3</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
(cont)	09/24/01	37.64	61.12	0.00	<250 <sup>3,8</sup>	<500 <sup>3,8</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
	12/13/01	37.78	60.98	0.00	<250 <sup>3</sup>	<500 <sup>3</sup>	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
NP	03/08/02	37.28	61.48	0.00	<250 <sup>3</sup>	<750 <sup>3</sup>	320	<0.50	0.64	2.1	15	--	--
	05/29/02	36.92	61.84	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
NP	09/16/02	37.21	61.55	0.00	<250 <sup>3</sup>	<250 <sup>3</sup>	<50	<0.50	<0.50	<0.50	<1.5	--	--
	12/05/02	37.58	61.18	0.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--
<b>MW-4</b>													
98.52	10/11/00 <sup>1</sup>	35.00	63.52	--	--	--	--	--	--	--	--	--	--
	12/16/00	36.35	62.17	0.00	ND <sup>2,3</sup>	ND <sup>2,3</sup>	58,200	326	5,520	1,430	8,520	ND <sup>2</sup>	0.0123 <sup>4</sup>
	03/26/01	37.00	61.52	0.00	266 <sup>3,5</sup>	ND <sup>3</sup>	27,200	178	2,160	785	4,160	<sup>2</sup> ND/ND <sup>6</sup>	--
	06/25/01	37.25	61.27	0.00	<250 <sup>3</sup>	<750 <sup>3</sup>	12,300	69.0	654	416	1,910	--	--
	09/24/01	37.60	60.92	0.00	<250 <sup>3,8</sup>	<500 <sup>3,8</sup>	4,130	30.1	154	197	684	--	--
	12/13/01	37.72	60.80	0.00	<250 <sup>3</sup>	<500 <sup>3</sup>	5,490	30.3	175	177	679	--	--
NP	03/08/02	38.36	60.16	0.00	<250 <sup>3</sup>	<750 <sup>3</sup>	9,000	<50	150	170	710	--	--
NP	05/29/02	36.86	61.66	0.00	<250 <sup>3</sup>	<750 <sup>3</sup>	6,700	22	150	190	780	--	--
	08/07/02	36.92	61.60	0.00	--	--	--	--	--	--	--	--	--
NP	09/16/02	37.16	61.36	0.00	<250 <sup>3</sup>	<250 <sup>3</sup>	7,500	46	230	240	630	--	--
NP	12/05/02	37.53	60.99	0.00	<250 <sup>3</sup>	<250 <sup>3</sup>	14,000	73	400	540	1,500	--	--
<b>MW-5</b>													
99.42	10/11/00 <sup>1</sup>	34.50	64.92	--	--	--	--	--	--	--	--	--	--
	12/16/00	37.18	62.24	0.00	5,080 <sup>3</sup>	ND <sup>3</sup>	146,000	ND <sup>2</sup>	15,100	4,160	24,100	ND <sup>2</sup>	0.0200 <sup>4</sup>
	03/26/01	37.91	61.51	0.00	77,900 <sup>3,5</sup>	ND <sup>3</sup>	149,000	256	10,600	4,000	24,200	<sup>2</sup> ND/ND <sup>6</sup>	--
	06/25/01	38.14	61.28	0.00	109,000 <sup>3</sup>	<18,100 <sup>3</sup>	127,000	210	9,580	3,730	21,500	--	--
	09/24/01	38.40	61.05**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
	12/13/01	38.55	60.90**	0.04	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
	03/08/02	37.96	61.86**	0.50	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--
	05/29/02	37.60	62.18**	0.45	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station # 209335  
1225 North 45th Street  
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
MW-5	08/07/02	37.73	62.00**	0.39	--	--	--	--	--	--	--	--	--
(cont)	09/16/02	38.00	61.73**	0.39	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--	
	10/15/02	38.09	61.63**	0.38	--	--	--	--	--	--	--	--	--
	11/22/02	37.84	61.92**	0.42	--	--	--	--	--	--	--	--	--
	12/05/02	38.42	61.29**	0.36	NOT SAMPLED DUE TO THE PRESENCE OF SPH						--	--	

**Trip Blank**

TB-LB	12/16/00	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	03/26/01	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	06/25/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
	09/24/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
	12/13/01	--	--	--	--	--	<80.0	<0.500	<0.500	<0.500	<1.00	--	--
	03/08/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
	05/29/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
	09/16/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--
	12/05/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--	--

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. Lead
Standard Laboratory Reporting Limits:	250	250	50	0.50	0.50	0.50	1.5	--	0.00100
MTCAL Method A Cleanup Levels:	1,000	1,000	1,000	5.0	40	30	20	--	--
Current Method:	NWTPH-D + Extended			NWTPH-G and EPA 8021				EPA 6020	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station # 209335  
1225 North 45th Street  
Seattle, Washington

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to December 16, 2000, were compiled from reports prepared by Delta Environmental Consultants Inc.

TOC = Top of Casing (ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(ppm) = Parts per million
DTW = Depth to Water	B = Benzene	ND = Not Detected
GWE = Groundwater Elevation	T = Toluene	NP = No Purge
SPH = Separate Phase Hydrocarbon	E = Ethylbenzene	-- = Not Measured/Not Analyzed
SPHT = Separate Phase Hydrocarbon Thickness	X = Xylenes	MTCA = Model Toxics Control Act Cleanup Regulations
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	[WAC 173-340-720(2)(a)(I), as amended 12/93].
TPH-O = Total Petroleum Hydrocarbons as Oil	D. Lead = Dissolved Lead	
	(ppb) = Parts per billion	

\* TOC elevations have been provided by Delta Environmental Consultants, Inc. referenced to an assumed datum in feet.

\*\* Groundwater elevation corrected for the presence of SPH; correction factor = [(TOC - DTW) + (SPHT x 0.80)]

<sup>1</sup> Data provided by Delta Environmental Consultants, Inc.

<sup>2</sup> Detection limit raised. Refer to analytical reports.

<sup>3</sup> TPH-D and TPH-O with silica-gel cleanup.

<sup>4</sup> Filtered at the laboratory.

<sup>5</sup> Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.

<sup>6</sup> MTBE by EPA Method 8260.

<sup>7</sup> Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.

<sup>8</sup> Laboratory report indicates the sample was prepared outside of the method established holding time.

**Table 2**  
**Separate Phase Hydrocarbon Thickness/Removal Data**  
Former Chevron Service Station #209335  
1225 North 45th Street  
Seattle, Washington

<b>WELL ID</b>	<b>DATE</b>	<b>DTW (ft.)</b>	<b>SPH THICKNESS (ft.)</b>	<b>AMOUNT BAILED (SPH + WATER) (gallons)</b>
MW-2	03/08/02	37.24	0.76	2.00
	05/29/02	36.81	0.73	2.00
	09/16/02	37.19	0.42	2.00
	10/15/02	37.24	0.44	2.00
	11/22/02	37.12	0.51	2.00
	12/05/02	37.51	0.59	2.00
MW-5	09/24/01	38.40	0.04	0.00
	12/13/01	38.55	0.04	0.00
	03/08/02	37.96	0.50	2.00
	05/29/02	37.60	0.45	2.00
	08/07/02	37.73	0.39	2.00
	09/16/02	38.00	0.39	2.00
	10/15/02	38.09	0.38	2.00
	11/22/02	37.84	0.42	2.00
	12/05/02	38.42	0.36	2.00

**EXPLANATIONS:**

DTW = Depth to Water

(ft.) = Feet

SPH = Separate Phase Hydrocarbons



## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used for all samples. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

***FORMER CHEVRON SERVICE STATION #209335***  
***Seattle, Washington***

***MONTHLY SITE VISITS OF***  
***AUGUST 7, 2002***  
***OCTOBER 15, 2002***  
***NOVEMBER 22, 2002***



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron Texaco #209335 Job Number: 386750  
 Site Address: 1225 45th Street Event Date: 8/7/02  
 City: Seattle, WA Sampler: Ben Newton

Well ID: MW-4 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed: \_\_\_\_\_  
 Total Depth: 41.60 ft. Thickness: n/a ft. (product/water): 0 gal.  
 Depth to Water: 36.92 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Monitor Only

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron Texaco #209335 Job Number: 386750  
 Site Address: 1225 45th Street Event Date: 8-7-02  
 City: Seattle, WA Sampler: Bwln

Well ID: MW-5 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: 139 ft. Amount Bailed (product/water): 2 gal.  
 Total Depth: 39.21 ft.  
 Depth to Water: 37.73 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #209335  
 Site Address: 1225 N. 45th Street  
 City: Seattle, WA

Job Number: 386750  
 Event Date: 10-15-02  
 Sampler: BWN

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 41.62 ft.  
 Depth to Water: 37.24 ft.

Well Condition: OK  
 Hydrocarbon Thickness: .44 ft. Amount Bailed (product/water): 2 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #209335 Job Number: 386750  
 Site Address: 1225 N. 45th Street Event Date: 10-15-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW-5 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 1.38 ft. Amount Bailed (product/water): 2 gal.  
 Total Depth: 39.21 ft.  
 Depth to Water: 38.09 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #209335 Job Number: 386750  
 Site Address: 1225 N. 45th Street Event Date: 11-22-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: MW-2 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: .51 ft. Amount Bailed: 2 gal.  
 Total Depth: 41.62 ft. (product/water):  
 Depth to Water: 37.12 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #209335  
 Site Address: 1225 N. 45th Street  
 City: Seattle, WA

Job Number: 386750  
 Event Date: 11-22-02 (inclusive)  
 Sampler: BWN

Well ID: MW-5 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 39.21 ft.  
 Depth to Water: 37.84 ft.

Hydrocarbon Thickness: 1.42 ft. Amount Bailed (product/water): 2 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPT

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



***FORMER CHEVRON SERVICE STATION #209335***  
***Seattle, Washington***

***MONITORING & SAMPLING***  
***EVENT OF MARCH 8, 2002***

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 3-8-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW1 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness:  (feet) Amount Bailed (product/water):  (Gallons)  
 Total Depth: 38.35 ft. Volume Factor (VF):  
 Depth to Water: 36.79 ft. 

2" = 0.17	3" = 0.38	4" = 0.66
6" = 1.50	12" = 5.80	

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: \_\_\_\_\_

Starting Time: 900 Weather Conditions: snow  
 Sampling Time: 915 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW1	4 VOAVEAR	Y	HCl	Lancaster	Gas/BTEX
MW1	2 Amber L				TPH(D) + Ext w/SG

COMMENTS: NO PURGE

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility: Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 3-8-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW #2 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: .75 (feet) Amount Bailed: 2 (Gallons)  
 Total Depth: 41.60 ft. Volume Factor (VF):  
 Depth to Water: 37.24 ft. 2" = 0.17    3" = 0.38    4" = 0.66  
 6" = 1.50    12" = 5.80

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: \_\_\_\_\_

Starting Time: 9:30 Weather Conditions: Snow  
 Sampling Time: 9:30 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: Bailed - 2 gal SPH  
XXXXXXXXXX

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility: Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 3-8-02  
 City: Seattle, WA Sampler: BUN

Well ID: MW 3 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed: Ø (Gallons)  
 Total Depth: 41.87 ft. Volume Factor (VF):  
 Depth to Water: 37.28 ft. 2" = 0.17    3" = 0.38    4" = 0.66  
 6" = 1.50    12" = 5.80

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: \_\_\_\_\_

Starting Time: 930 Weather Conditions: snow  
 Sampling Time: 945 Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 3	4 VAIVSAL	Y	HCl	Lanc.	Gas/BTEX
MW 3	2 Amber 2	↓	↓	↓	TPH(D) + Ext w/SG

COMMENTS: NO PURGE

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chem #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 3-8-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW #4 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)  
 Total Depth: 47.62 ft.  
 Depth to Water: 38.36 ft.

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment:  Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment:  Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1000 Weather Conditions: Snow  
 Sampling Time: 1015 Water Color: clear Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 2	4 VOXIAL	Y	HCl	Lanc.	Gas/BTEX
MW 2	2 Amber L	↓	↓	↓	TPH(D) + Ext w/SG

COMMENTS: NO PURGE

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 3-8-02  
 City: Seattle, WA Sampler: BWN

Well ID MW 5 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Thickness: 1.50 (feet) Amount Bailed 2 (Gallons)  
 Total Depth 39.21 ft. 

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

  
 Depth to Water 37.96 ft.

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: snow  
 Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ hos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y			

COMMENTS: Bailed ~ 2 gal SPH  
NO PURGE

Facility #: <u>209335</u> Job # <u>386750</u> Site Address: <u>1225 N. 45th Street, SEATTLE, WA</u> Chevron PM: <u>Brett Hunter</u> Lead Consultant: <u>Delta</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding</u> (Deanna@grinc.com) Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Ben Newton</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____		<b>Analyses Requested</b> <b>Preservation Codes</b>		<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other  <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits																																																																																																																												
<b>Sample Identification</b>		<b>Matrix</b> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers		BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH G <input checked="" type="checkbox"/> TPH D <input checked="" type="checkbox"/> Extended Req. <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/> VP/IEPH <input type="checkbox"/> NWT/PH HCl/D <input type="checkbox"/> quantification <input type="checkbox"/> <u>(1008) X215</u>																																																																																																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Date Collected</th> <th>Time Collected</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Oil</th> <th>Air</th> <th>Total Number of Containers</th> <th>BTEX + MTBE 8021</th> <th>8260</th> <th>Naphth</th> <th>8260 full scan</th> <th>Oxygenates</th> <th>TPH G</th> <th>TPH D</th> <th>Extended Req.</th> <th>Silica Gel Cleanup</th> <th>Lead Total</th> <th>Diss.</th> <th>Method</th> <th>VP/IEPH</th> <th>NWT/PH HCl/D</th> <th>quantification</th> </tr> </thead> <tbody> <tr> <td>TB LB</td> <td>3-8-02</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW 1</td> <td>↓</td> <td>915</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW 2</td> <td>↓</td> <td>1015</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW 3</td> <td>↓</td> <td>945</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>		Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	8260 full scan	Oxygenates	TPH G	TPH D	Extended Req.	Silica Gel Cleanup	Lead Total	Diss.	Method	VP/IEPH	NWT/PH HCl/D	quantification	TB LB	3-8-02		X			X			2						X	X								X	MW 1	↓	915	X			X			3						X	X								X	MW 2	↓	1015	X			X			5						X	X								X	MW 3	↓	945	X			X			5						X	X								X	<b>Comments / Remarks</b>	
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	Naphth	8260 full scan	Oxygenates	TPH G	TPH D	Extended Req.	Silica Gel Cleanup	Lead Total	Diss.	Method	VP/IEPH	NWT/PH HCl/D	quantification																																																																																																								
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<b>Turnaround Time Requested (TAT) (please circle)</b> STD. TAT <u>24 hour</u> 72 hour      48 hour 4 day                      5 day		Relinquished by: <u>Ben Newton</u> Date: <u>3-8-02</u> Time: <u>1500</u> Relinquished by: _____      Date: _____      Time: _____		Received by: _____      Date: _____      Time: _____ Received by: _____      Date: _____      Time: _____																																																																																																																												
<b>Data Package Options (please circle if required)</b> QC Summary      Type I - Full Type VI (Raw Data)      Disk / EDD WIP (RWQCB)      Standard Format Disk      _____ Other.		Relinquished by: _____      Date: _____      Time: _____ Relinquished by Commercial Carrier: _____ UPS <u>FedEx</u> Other _____ Temperature Upon Receipt <u>4.040</u> / <u>4.50</u>		Received by: <u>Chris Zook</u> Date: <u>3/11/02</u> Time: <u>0900</u> Custody Seals Intact? <u>Yes</u> No																																																																																																																												



## ANALYTICAL RESULTS

Prepared for:

Chevron Products Company  
6001 Bollinger Canyon Road  
Building L PO Box 6004  
San Ramon CA 94583-0904  
925-842-8582

RECEIVED

MAR 11 2002

GETTLER-RYAN, INC.  
GENERAL CONTRACTORS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

### SAMPLE GROUP

The sample group for this submittal is 799747. Samples arrived at the laboratory on Monday, March 11, 2002. The PO# for this group is 99011184 and the release number is HUNTER.

### Client Description

TB LB Water Sample  
MW 1 Grab Water Sample  
MW 2 Grab Water Sample  
MW 3 Grab Water Sample

### Lancaster Labs Number

3785583  
3785584  
3785585  
3785586

### METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding







**Lancaster Laboratories**

*Where quality is a science.*

Questions? Contact your Client Services Representative  
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Christine M. Dufaney  
Sr. Chemist



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3785583

Collected: 03/08/2002 00:00

Account Number: 10905

Submitted: 03/11/2002 09:20  
 Reported: 03/21/2002 at 21:51  
 Discard: 04/21/2002  
 TB LB Water Sample

Chevron Products Company  
 6001 Bollinger Canyon Road  
 Building L PO Box 6004  
 San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
 1225 N.45th Street - Seattle, WA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08213	BTEX (8021)	SW-846 8021B	1	03/13/2002 07:44	Darvin L Martin	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/13/2002 07:44	Darvin L Martin	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/13/2002 07:44	Darvin L Martin	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or Above the Reporting Limit



Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3785584**

Collected: 03/08/2002 09:15 by BN

Account Number: 10905

Submitted: 03/11/2002 09:20  
 Reported: 03/21/2002 at 21:51  
 Discard: 04/21/2002  
 MW 1 Grab Water Sample

Chevron Products Company  
 6001 Bollinger Canyon Road  
 Building L PO Box 6004  
 San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
 1225 N.45th Street - Seattle, WA

12251

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	750.	ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/13/2002 17:21	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	03/13/2002 10:08	Darvin L Martin	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/13/2002 10:08	Darvin L Martin	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/13/2002 10:08	Darvin L Martin	n.a.

#=Laboratory Method Detection Limit exceeds target detection limit  
 N.D.=Not detected at or above the Reporting Limit



2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3785584

Collected: 03/08/2002 09:15 by BN

Account Number: 10905

Submitted: 03/11/2002 09:20  
Reported: 03/21/2002 at 21:51  
Discard: 04/21/2002  
MW 1 Grab Water Sample

Chevron Products Company  
6001 Bollinger Canyon Road  
Building L PO Box 6004  
San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
1225 N.45th Street - Seattle, WA

12251							
02176	Silica Quick Gel Cleanup	NWTPH-Dx, ECY 97-602, 6/97	1	03/13/2002 14:15	Joseph S Feister		1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	03/13/2002 09:40	Joseph S Feister		1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected or above the Reporting Limit



Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3785585

Collected: 03/08/2002 10:15 by BN

Account Number: 10905

Submitted: 03/11/2002 09:20  
 Reported: 03/21/2002 at 21:51  
 Discard: 04/21/2002  
 MW 2 Grab Water Sample

Chevron Products Company  
 6001 Bollinger Canyon Road  
 Building L PO Box 6004  
 San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
 1225 N.45th Street - Seattle, WA

12252

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	750.	ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D. #	50.	ug/l	1
00777	Toluene	108-88-3	150.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	170.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	710.	1.5	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	9,000.	480.	ug/l	10

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
---------	---------------	--------	--------	------------------------	---------	-----------------

#=Laboratory Method Detection Limit exceeds target detection limit  
 N.D.=Not detected at or above the Reporting Limit



2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3785585

Collected: 03/08/2002 10:15 by BN

Account Number: 10905

Submitted: 03/11/2002 09:20  
Reported: 03/21/2002 at 21:51  
Discard: 04/21/2002  
MW 2 Grab Water Sample

Chevron Products Company  
6001 Bollinger Canyon Road  
Building L PO Box 6004  
San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
1225 N.45th Street - Seattle, WA

Sample ID	Method	Method Description	Result	Date/Time	Analyst	Count
12252						
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/13/2002 17:46	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	03/14/2002 08:20	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/14/2002 12:34	Linda C Pape	10
01146	GC VOA Water Prep	SW-846 5030B	1	03/14/2002 08:20	Linda C Pape	n.a.
02176	Silica Quick Gel Cleanup	NWTPH-Dx, ECY 97-602, 6/97	1	03/13/2002 14:15	Joseph S Feister	1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	03/13/2002 09:40	Joseph S Feister	1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected or above the Reporting Limit



2425 New Holland Pike  
PO Box 12423  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. **WW 3785586**

Collected: 03/08/2002 09:45 by BN

Account Number: 10905

Submitted: 03/11/2002 09:20  
 Reported: 03/21/2002 at 21:52  
 Discard: 04/21/2002  
 MW 3 Grab Water Sample

Chevron Products Company  
 6001 Bollinger Canyon Road  
 Building L PO Box 6004  
 San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
 1225 N.45th Street - Seattle, WA

12253

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	750.	ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	0.64	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	2.1	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	15.	1.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	320.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	03/14/2002 16:58	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	03/13/2002 10:43	Darvin L Martin	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	03/13/2002 10:43	Darvin L Martin	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/13/2002 10:43	Darvin L Martin	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected above the Reporting Limit



2425 New Holland Pike  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3785586

Collected: 03/08/2002 09:45 by BN

Account Number: 10905

Submitted: 03/11/2002 09:20  
Reported: 03/21/2002 at 21:52  
Discard: 04/21/2002  
MW 3 Grab Water Sample

Chevron Products Company  
6001 Bollinger Canyon Road  
Building L PO Box 6004  
San Ramon CA 94583-0904

Facility# 209335 Job# 386750  
1225 N.45th Street - Seattle, WA

12253								
02176	Silica Quick Gel Cleanup	NWTPH-Dx, ECY 97-602, 6/97	1	03/14/2002 04:45	JoElla L Rice			1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	03/14/2002 01:25	JoElla L Rice			1

#=Laboratory Method Detection Limit exceeded target detection limit  
N.D.=Not detected or below the Reporting Limit



2425 New Holland Pike  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





## Lancaster Laboratories

*Where quality is a science.*  
**Quality Control Summary**

Client Name: Chevron Products Company  
Reported: 03/21/02 at 09:52 PM

Group Number: 799747

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 020710018A	Sample number(s): 3785584-3785585							
Diesel Range Organics	N.D.	250.	ug/l	81	84	55-126	3	20
Heavy Range Organics	N.D.	750.	ug/l					
Batch number: 02071A02A	Sample number(s): 3785583-3785584,3785586							
Benzene	N.D.	.5	ug/l	95	94	80-118	1	30
Toluene	N.D.	.5	ug/l	95	92	82-119	3	30
Ethylbenzene	N.D.	.5	ug/l	94	93	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	96	94	82-120	2	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	101	99	76-126	2	30
Batch number: 020720004A	Sample number(s): 3785586							
Diesel Range Organics	N.D.	250.	ug/l	81	78	55-126	5	20
Heavy Range Organics	N.D.	750.	ug/l					
Batch number: 02073A02A	Sample number(s): 3785585							
Benzene	N.D.	.5	ug/l	94	96	80-118	2	30
Toluene	N.D.	.5	ug/l	93	96	82-119	4	30
Ethylbenzene	N.D.	.5	ug/l	91	97	81-119	7	30
Total Xylenes	N.D.	1.5	ug/l	93	98	82-120	5	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	103	106	76-126	4	30

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02071A02A	Sample number(s): 3785583-3785584,3785586								
Benzene	98		77-131						
Toluene	99		80-128						
Ethylbenzene	98		76-132						
Total Xylenes	99		76-132						
TPH by NWTPH-Gx waters	109		74-132						
Batch number: 02073A02A	Sample number(s): 3785585								
Benzene	101		77-131						
Toluene	100		80-128						
Ethylbenzene	99		76-132						
Total Xylenes	101		76-132						
TPH by NWTPH-Gx waters	110		74-132						

### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel  
Batch number: 020710018A

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





## Lancaster Laboratories

Where quality is a science.

### Quality Control Summary

Client Name: Chevron Products Company  
Reported: 03/21/02 at 09:52 PM

Group Number: 799747

### Surrogate Quality Control

#### Orthoterphenyl

3785584	51
3785585	54
Blank	55
LCS	54
LCSD	56

Limits: 50-150

Analysis Name: BTEX (8021)  
Batch number: 02071A02A

	Trifluorotoluene-P	Trifluorotoluene-F
--	--------------------	--------------------

3785583	100	96
3785584	101	95
3785586	101	96
Blank	99	95
LCS	99	109
LCSD	99	114
MS	101	108

Limits: 71-130                      67-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel  
Batch number: 020720004A  
Orthoterphenyl

3785586	61
Blank	61
LCS	54
LCSD	56

Limits: 50-150

Analysis Name: BTEX (8021)  
Batch number: 02073A02A

	Trifluorotoluene-P	Trifluorotoluene-F
--	--------------------	--------------------

3785585	102	103
Blank	101	95
LCS	100	113
LCSD	99	109
MS	102	112

Limits: 71-130                      67-135

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

***FORMER CHEVRON SERVICE STATION #209335***  
***Seattle, Washington***

***MONITORING & SAMPLING***  
***EVENT OF MAY 29, 2002***

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 5-29-02  
 City: Seattle, WA Sampler: BWJ

Well ID: MW1 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)  
 Total Depth: 38.35 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water: 36.44 ft. 6" = 1.50 12" = 5.80

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ hos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y			

COMMENTS: Monitoring only

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Client/Facility # Fernex Chem #209335 Job#: 386750  
Address: 1225 North 45th St Date: 5-29-02  
City: Seattle, WA Sampler: BWN

Well ID MW # 2 Well Condition: OK  
Well Diameter 2 in. Hydrocarbon Thickness: .73 (feet) Amount Bailed (product/water): 2 (Gallons)  
Total Depth 41.60 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
Depth to Water 36.81 ft. 6" = 1.50 12" = 5.80

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y			

COMMENTS: Not sampled due to SPH

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 5-29-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW3 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed: Ø (Gallons)  
 Total Depth: 41.92 ft. Volume Factor (VF): 2" = 0.17, 3" = 0.38, 4" = 0.66  
 Depth to Water: 36.92 ft. 6" = 1.50, 12" = 5.80

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y			

COMMENTS: Monitoring Only

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chevron #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 5-29-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW 4 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: ∅ (feet) Amount Bailed (product/water): ∅ (Gallons)  
 Total Depth: 41.62 ft.  
 Depth to Water: 36.86 ft.

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
 Sampling Equipment:  Disposable Bailer Bailer  Pressure Bailer  Grab Sample Other: \_\_\_\_\_

Starting Time: 1400 Weather Conditions: Sunny  
 Sampling Time: 1415 Water Color: Clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 2	3 VOALSAL	Y	HCl	Lanc	Gas/BTEX
MW 2	2 Amber L	Y	NP	↓	TPH (D) x w/SG

COMMENTS: NO PURGE

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility: Farmer Chem #209335 Job#: 386750  
 Address: 1225 North 45th St Date: 5-29-02  
 City: Seattle, WA Sampler: BWN

Well ID: MW5  
 Well Diameter: 2 in.  
 Total Depth: 39.21 ft.  
 Depth to Water: 37.60 ft.

Well Condition: OK  
 Hydrocarbon Thickness: .45 (feet) Amount Bailed: 2 (Gallons)  

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y			

COMMENTS: Not sampled due to SPH



# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: 10902 Sample #: 38 22757-8 SCR#: \_\_\_\_\_

Facility #:				JOB #386750				Analyses Requested										Preservative Codes					
Site Address:				Chevron PM:				Matrix				Preservation Codes						Preservative Codes					
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8260	8260 full scan	Oxygenates	TPHG + BTEX	TPHD	Lead Total	VPI/EPH	NWTPH/HClID	quantification	Preservative Codes		
TR LB		5-29-02		X			X			2					X	X						H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other  <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits	
MW 2		↓	1415	X			X			3					X	X						Comments / Remarks	
Turnaround Time Requested (TAT) (please circle)											Relinquished by: <i>Ben Newton</i>		Date	Time	Received by:			Date	Time				
<input checked="" type="radio"/> STD. TAT      72 hour      48 hour <input type="radio"/> 24 hour      4 day      5 day											Date		Time	Received by:			Date	Time					
Data Package Options (please circle if required)											Relinquished by:		Date	Time	Received by:			Date	Time				
QC Summary      Type I - Full Type VI (Raw Data)      Disk / EDD WIP (RWQCB)      Standard Format Disk      _____ Other.											Relinquished by Commercial Carrier:		Date	Time	Received by:			Date	Time				
											UPS <input checked="" type="radio"/> FedEx      Other _____		Temperature Upon Receipt <u>60</u> °C		Received by: <i>Kathy Binkley</i> Custody Seals Intact?    Yes    No <u>(N/A)</u>			Date	Time				
																		Date	Time				



## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

RECEIVED

JUN 20 2002

GETTLER-RYAN INC.  
GENERAL CONTRACTOR

## SAMPLE GROUP

The sample group for this submittal is 810540. Samples arrived at the laboratory on Saturday, June 08, 2002. The PO# for this group is 99011184 and the release number is HUNTER.

### Client Description

TB LB Water Sample  
MW 2 Water Sample

### Lancaster Labs Number

3832757  
3832758

## METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO      Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

Questions? Contact your Client Services Representative  
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

*Steven A. Skiles*  
Steven A. Skiles  
Sr. Chemist





Lancaster Laboratories Sample No. WW 3832757

Collected: n.a.

Account Number: 10905

Submitted: 06/08/2002 09:50

Reported: 06/19/2002 at 12:23

Discard: 07/20/2002

TB LB Water Sample

Facility# 209335 Job # 386750

1225 N. 45th St. - Seattle, WA

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/10/2002 20:28	Matthew E Barton	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	06/10/2002 20:28	Matthew E Barton	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/10/2002 20:28	Matthew E Barton	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected at or above the Reporting Limit.



2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3832758

Collected: 05/29/2002 14:15 by BN

Account Number: 10905

Submitted: 06/08/2002 09:50  
 Reported: 06/19/2002 at 12:24  
 Discard: 07/20/2002  
 MW 2 Water Sample  
 Facility# 209335 Job # 386750  
 1225 N. 45th St. - Seattle, WA

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

SEAT2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	750.	ug/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	22.	1.0	ug/l	5
00777	Toluene	108-88-3	150.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	190.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	780.	3.0	ug/l	5
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	6,700.	240.	ug/l	5

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	06/11/2002 18:15	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	06/11/2002 09:09	Linda C Pape	5
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	06/11/2002 09:09	Linda C Pape	5
01146	GC VOA Water Prep	SW-846 5030B	1	06/11/2002 09:09	Linda C Pape	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	06/10/2002 16:30	Elia R Botrous	1

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected at or above the Reporting Limit.



Client Name: ChevronTexaco  
Reported: 06/19/02 at 12:24 PM

Group Number: 810540

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 021610004A      Sample number(s): 3832758								
Diesel Range Organics	N.D.	250.	ug/l	80		55-126		
Heavy Range Organics	N.D.	750.	ug/l					
Batch number: 02161A02A      Sample number(s): 3832757								
Benzene	N.D.	.5	ug/l	100	100	80-118	1	30
Toluene	N.D.	.5	ug/l	106	107	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	103	102	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	109	107	82-120	1	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	91	76-126	2	30
Batch number: 02161A02C      Sample number(s): 3832758								
Benzene	N.D.	.5	ug/l	100	100	80-118	1	30
Toluene	N.D.	.5	ug/l	106	107	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	103	102	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	109	107	82-120	1	30
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	92	91	76-126	2	30

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02161A02A      Sample number(s): 3832757								
Benzene	114	107	77-131	6	30			
Toluene	121	111	80-128	8	30			
Ethylbenzene	121	109	76-132	10	30			
Total Xylenes	124	113	76-132	9	30			
TPH by NWTPH-Gx waters	92	95	74-132	3	30			
Batch number: 02161A02C      Sample number(s): 3832758								
Benzene	114	107	77-131	6	30			
Toluene	121	111	80-128	8	30			
Ethylbenzene	121	109	76-132	10	30			
Total Xylenes	124	113	76-132	9	30			
TPH by NWTPH-Gx waters	92	95	74-132	3	30			

### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel  
Batch number: 021610004A  
Orthoterphenyl

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





Client Name: ChevronTexaco  
Reported: 06/19/02 at 12:24 PM

Group Number: 810540

### Surrogate Quality Control

---

3832758	77
Blank	85
LCS	80

---

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx waters

Batch number: 02161A02A

	Trifluorotoluene-P	Trifluorotoluene-F
3832757	99	83
Blank	99	88
LCS	101	94
LCSD	102	95
MS	103	99
MSD	103	99

---

Limits: 71-130                      67-135

Analysis Name: TPH by NWTPH-Gx waters

Batch number: 02161A02C

	Trifluorotoluene-P	Trifluorotoluene-F
3832758	100	86
Blank	101	86
LCS	101	94
LCSD	102	95
MS	103	99
MSD	103	99

---

Limits: 71-130                      67-135

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



***FORMER CHEVRON SERVICE STATION #209335***  
***Seattle, Washington***

***MONITORING & SAMPLING***  
***EVENT OF SEPTEMBER 16, 2002***



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 9-16-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-1 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 38.35 ft.  
 Depth to Water: 36.71 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 900 Weather Conditions: Sunny  
 Sample Time/Date: 915 / Water Color: Clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x vov vial	YES	HCL	LC	TPH-G/BTEX/MTBE
MW1	2 Amber2	✓	↓	↓	TPH(D) & W/SB

COMMENTS: NO PURGE

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 9-16-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-2 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: .42 ft. Amount Bailed (product/water): 2 gal.  
 Total Depth: 41.62 ft.  
 Depth to Water: 37.19 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

~~4.45~~ xVF .87 = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date:  / / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH & water

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 9-16-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-3 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 41.69 ft. Volume Factor (VF) table:  
 Depth to Water: 37.21 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1000 Weather Conditions: Sunny  
 Sample Time/Date: 1015 / Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x voa vial	YES	HCL	LC	TPH-G/BTEX/ATSE
MW-3	2 Amber 2	↓	↓	↓	TPH/DI & W/S6

COMMENTS: NO PURGE

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 9-16-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-4 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 41.60 ft.  
 Depth to Water: 37.16 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 930 Weather Conditions: Sunny!  
 Sample Time/Date: 945 / Water Color: clear Odor: slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	LC	TPH-G/BTEX/MTE
MW 4	2 Amber	↓	↓	↓	TPH(L) x w/56

COMMENTS: NP

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 9-16-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-5 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: .39 ft. Amount Bailed (product/water): 2 gal.  
 Total Depth: 39.20 ft.  
 Depth to Water: 38.00 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH & water

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10905 Sample #: 3900970-13 SCR#: \_\_\_\_\_  
 Group # 823280

Facility #: 209335 Job # 386750  
 Site Address: 1225 N. 45th Street, SEATTLE, WA  
 Chevron PM: BH Lead Consultant: Delta  
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: Ben Newton  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested												
		Preservation Codes												
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260	8260 full scan	Oxygenates	TPHG + BTEX 8021	TPHD	Lead Total	VPH/EPH	NWTPH HClID	quantification
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

**8021 MTBE Confirmation**  
 Confirm MTBE + Naphthalene  
 Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy s on highest hit  
 Run \_\_\_ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers
TB LB	9-16-02	—	X		X				2
MW 1	↓	915	X		X				5
MW 3	↓	1015	X		X				5
MW 4	↓	945	X		X				5

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**

STD. TAT: 24 hour      72 hour      48 hour  
 4 day                  5 day

Relinquished by: <u>Ben Newton</u>	Date: <u>9-17-02</u>	Time: <u>1400</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

**Data Package Options (please circle if required)**

QC Summary      Type I - Full  
 Type VI (Raw Data)      Disk / EDD  
 WIP (RWQCB)      Standard Format  
 Disk      \_\_\_\_\_ Other.

Relinquished by Commercial Carrier: <u>FedEx</u>	Received by: <u>Kathy Beinkley</u>	Date: <u>9-18-02</u>	Time: <u>0910</u>
UPS <u>FedEx</u> Other _____	Custody Seals Intact?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <u>(N/A)</u>		
Temperature Upon Receipt: <u>5.0</u> °C			



RECEIVED

### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

4  
GETTLER-RYAN  
GENERAL CONTRACTOR

### SAMPLE GROUP

The sample group for this submittal is 823280. Samples arrived at the laboratory on Wednesday, September 18, 2002. The PO# for this group is 99011184 and the release number is HUNTER.

#### Client Description

TB LB Water Sample  
MW 1 Grab Water Sample  
MW 3 Grab Water Sample  
MW 4 Grab Water Sample

#### Lancaster Labs Number

3900970  
3900971  
3900972  
3900973

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

Questions? Contact your Client Services Representative  
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

*Susan M. Croyle*  
Susan M. Croyle  
Sr. Chemist/Coordinator





Lancaster Laboratories Sample No. WW 3900970

Collected: 09/16/2002 00:00

Account Number: 10905

Submitted: 09/18/2002 09:10

Reported: 10/02/2002 at 10:46

Discard: 11/02/2002

TB LB Water Sample

Facility# 209335 Job# 386750

1225 N. 45th Street; Seattle, WA

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
08213	BTEX (8021)	SW-846 8021B	1	09/19/2002 10:38		Melissa D Mann	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	09/19/2002 10:38		Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/19/2002 10:38		Melissa D Mann	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected or above the Reporting Limit



Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3900971

Collected: 09/16/2002 09:15 by BN

Account Number: 10905

Submitted: 09/18/2002 09:10  
 Reported: 10/02/2002 at 10:46  
 Discard: 11/02/2002  
 MW 1 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N. 45th Street; Seattle, WA

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

45TH1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
Site-specific QC samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/23/2002 17:41	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	09/19/2002 16:05	Melissa D Mann	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	09/19/2002 16:05	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/19/2002 16:05	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	09/20/2002 16:30	Elia R Botrous	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected in Grabbyline Reporting Limit



Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





Lancaster Laboratories Sample No. **WW 3900972**

Collected: 09/16/2002 10:15 by **BN**

Account Number: 10905

Submitted: 09/18/2002 09:10  
 Reported: 10/02/2002 at 10:46  
 Discard: 11/02/2002  
 MW 3 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N. 45th Street; Seattle, WA

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

45TH3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
Site-specific QC samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/23/2002 18:06	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	09/19/2002 16:37	Melissa D Mann	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	09/19/2002 16:37	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/19/2002 16:37	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	09/20/2002 16:30	Elia R Botrous	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected in or above the Reporting Limit





Lancaster Laboratories Sample No. WW 3900973

Collected: 09/16/2002 09:45 by BN

Account Number: 10905

Submitted: 09/18/2002 09:10  
 Reported: 10/02/2002 at 10:47  
 Discard: 11/02/2002  
 MW 4 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N. 45th Street; Seattle, WA

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

45TH4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
Site-specific QC samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08213	BTEX (8021)					
00776	Benzene	71-43-2	46.	1.0	ug/l	5
00777	Toluene	108-88-3	230.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	240.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	630.	3.0	ug/l	5
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	7,500.	240.	ug/l	5
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	09/23/2002 18:31	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	09/19/2002 19:16	Melissa D Mann	5
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	09/19/2002 19:16	Melissa D Mann	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/19/2002 19:16	Melissa D Mann	n.a.
07003	Extraction - DR0 (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	09/20/2002 16:30	Elia R Botrous	1

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected or above the Reporting Limit



Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



## Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 10/02/02 at 10:47 AM

Group Number: 823280

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02261B55A      Sample number(s): 3900970								
Benzene	N.D.	.2	ug/l	94	91	80-118	2	30
Toluene	N.D.	.2	ug/l	100	98	82-119	2	30
Ethylbenzene	N.D.	.2	ug/l	102	100	81-119	2	30
Total Xylenes	N.D.	.6	ug/l	103	101	82-120	1	30
TPH by NWTPH-Gx waters	N.D.	.048	mg/l	97	100	74-116	3	30
Batch number: 02261B55B      Sample number(s): 3900971-3900973								
Benzene	N.D.	.2	ug/l	94	91	80-118	2	30
Toluene	N.D.	.2	ug/l	100	98	82-119	2	30
Ethylbenzene	N.D.	.2	ug/l	102	100	81-119	2	30
Total Xylenes	N.D.	.6	ug/l	103	101	82-120	1	30
TPH by NWTPH-Gx waters	N.D.	.048	mg/l	97	100	74-116	3	30
Batch number: 022630008A      Sample number(s): 3900971-3900973								
Diesel Range Organics	N.D.	.08	mg/l	95	89	55-126	7	20
Heavy Range Organics	N.D.	.1	mg/l					

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02261B55A      Sample number(s): 3900970								
Benzene	99		83-130					
Toluene	107		87-129					
Ethylbenzene	111		86-133					
Total Xylenes	110		86-132					
TPH by NWTPH-Gx waters	97		74-132					
Batch number: 02261B55B      Sample number(s): 3900971-3900973								
Benzene	99		83-130					
Toluene	107		87-129					
Ethylbenzene	111		86-133					
Total Xylenes	110		86-132					
TPH by NWTPH-Gx waters	97		74-132					

### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Gx waters  
 Batch number: 02261B55A

	<u>Trifluorotoluene-P</u>	<u>Trifluorotoluene-F</u>
3900970	109	85
Blank	107	86
LCS	109	91
LCSD	109	94
MS	107	113

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 10/02/02 at 10:47 AM

Group Number: 823280

### Surrogate Quality Control

Limits: 71-130 57-146

Analysis Name: TPH by NWTPH-Gx waters  
Batch number: 02261B55B

	Trifluorotoluene-P	Trifluorotoluene-F
3900971	109	85
3900972	109	84
3900973	113	95
Blank	110	85
LCS	109	91
LCSD	109	94
MS	107	113

Limits: 71-130 57-146

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel  
Batch number: 022630008A  
Orthoterphenyl

3900971	80
3900972	72
3900973	82
Blank	86
LCS	105
LCSD	97

Limits: 27-135

\*. Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

***FORMER CHEVRON SERVICE STATION #209335***  
***Seattle, Washington***

***MONITORING & SAMPLING***  
***EVENT OF DECEMBER 5, 2002***



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 12-5-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-1 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.  
 Total Depth: 38.35 ft.  
 Depth to Water: 37.09 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	X vob vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Monitoring Only

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 12-5-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-2 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: .59 ft. Amount Bailed (product/water): 2 gal.  
 Total Depth: 41.62 ft.  
 Depth to Water: 37.51 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	<del>x vial</del>	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPA

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 12-5-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-3 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 41.69 ft. Depth to Water: 37.58 ft.

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Monitoring Only

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 12-5-02  
 City: Seattle, Washington Sampler: BWN

Well ID: MW-4 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.  
 Total Depth: 41.60 ft.  
 Depth to Water: 37.53 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1100 Weather Conditions: Sunny  
 Sample Time/Date: 1115 / Water Color: clear Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	Lancaster	TPH-G/BTEX/MTE
MW 4	2 Amber 2	↓	↓	↓	TPH(D) w/36

COMMENTS: NO PURGE

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750  
 Site Address: 1225 North 45th street Event Date: 12-5-02  
 City: Seattle, Washington Sampler: BWJ

Well ID: MW-5 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 39.27 ft. Thickness: .36 ft. (product/water): 2 gal.  
 Depth to Water: 38.92 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_ Sampling Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_ Pressure Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_ Discrete Bailer \_\_\_\_\_  
 Suction Pump \_\_\_\_\_ Other: \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	<del>x 100 vial</del>	YES	HCL	<del>_____</del>	TPH-G/BTEX/MTBE

COMMENTS: Bailed ~ 2 gal SPH

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# Chevron Northwest Region Analysis Request/Chain of Custody



Acct. #: 10906 For Lancaster Laboratories use only  
 Sample #: 3750531-32 SCR#: \_\_\_\_\_

GR# 833773

Facility #: <u>209335</u> Job # <u>386750</u> Site Address: <u>1225 N. 45th Street, SEATTLE, WA</u> Chevron PM: <u>BH</u> Lead Consultant: <u>Delta</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (Deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Ben Newton</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____		<b>Matrix</b> <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air	Total Number of Containers <u>2</u>	<b>Analyses Requested</b> BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH G + BTEX 8021 <input checked="" type="checkbox"/> TPH D <input checked="" type="checkbox"/> Extended Rng. <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ VP/NEPH <input type="checkbox"/> NWT/PH H CID <input type="checkbox"/> quantification	<b>Preservative Codes</b> H = HCl T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits	
<b>Sample Identification</b> TB LB MW 4	Date Collected <u>12-5-02</u> ↓	Time Collected — 1115	Grab <input checked="" type="checkbox"/> Composite <input type="checkbox"/>	Total Number of Containers 2 5	BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> TPH G + BTEX 8021 <input checked="" type="checkbox"/> TPH D <input checked="" type="checkbox"/> Extended Rng. <input checked="" type="checkbox"/> Silica Gel Cleanup <input checked="" type="checkbox"/> Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method _____ VP/NEPH <input type="checkbox"/> NWT/PH H CID <input type="checkbox"/> quantification	<b>Comments / Remarks</b>
<b>Turnaround Time Requested (TAT) (please circle)</b> STD. TAT <u>24 hour</u> 72 hour 48 hour 5 day 24 hour 4 day 5 day		Relinquished by: <u>Ben Newton</u> Date: <u>12-5-02</u> Time: <u>1200</u>		Received by: _____ Date: _____ Time: _____		
<b>Data Package Options (please circle if required)</b> QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk _____ Other.		Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____		
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other _____		Received by: <u>Chris Brooks</u> Date: <u>12/10/02</u> Time: <u>0910</u>		Temperature Upon Receipt <u>3.0</u> °C Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

RECEIVED

DEC 27 2007

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

## SAMPLE GROUP

The sample group for this submittal is 833773. Samples arrived at the laboratory on Monday, December 09, 2002. The PO# for this group is 99011184 and the release number is HUNTER.

### Client Description

TB LB Water Sample  
MW 4 Grab Water Sample

### Lancaster Labs Number

3956531  
3956532

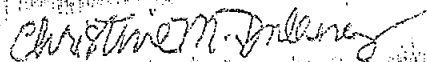
1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

Questions? Contact your Client Services Representative  
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

  
Christine M. Dulaney  
Sr. Chemist



Lancaster Laboratories Sample No. WW 3956531

Collected: 12/05/2002 00:00

Account Number: 10905

Submitted: 12/09/2002 09:10

Reported: 12/20/2002 at 18:15

Discard: 01/20/2003

TB LB Water Sample

Facility# 209335 Job# 386750

1225 N 45TH STREET; SEATTLE, WA

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	12/11/2002 05:45	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	12/11/2002 05:45	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/11/2002 05:45	Linda C Pape	n.a.

#=Laboratory Method Detection Limit based on target detection limit

N.D.=Not detected above the Reporting Limit



2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3956532

Collected: 12/05/2002 11:15 by BN

Account Number: 10905

Submitted: 12/09/2002 09:10  
 Reported: 12/20/2002 at 18:15  
 Discard: 01/20/2003  
 MW 4 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N 45TH STREET; SEATTLE, WA

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

M4335

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
Site-specific QC samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08213	BTEX (8021)					
00776	Benzene	71-43-2	73.	1.0	ug/l	5
00777	Toluene	108-88-3	400.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	540.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	1,500.	3.0	ug/l	5
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	14,000.	240.	ug/l	5

State of Washington Lab Certification No. C259

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	12/11/2002 20:07	Devin M Lahr	1
08213	BTEX (8021)	SW-846 8021B	1	12/11/2002 14:59	Melissa D Mann	5
08274	TPH by NWTPH-Gx waters	TPH by NWTPH-Gx - 8015B Mod.	1	12/11/2002 14:59	Melissa D Mann	5
01146	GC VOA Water Prep	SW-846 5030B	1	12/11/2002 14:59	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	12/10/2002 17:35	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit  
 N.D.=Not detected at or above the Reporting Limit



Lancaster Laboratories, Inc.  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



## Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 12/20/02 at 06:15 PM

Group Number: 833773

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 02337A55B	Sample number(s): 3956531-3956532							
Benzene	N.D.	.2	ug/l	97		80-118		
Toluene	N.D.	.2	ug/l	100		82-119		
Ethylbenzene	N.D.	.2	ug/l	101		81-119		
Total Xylenes	N.D.	.6	ug/l	101		82-120		
TPH by NWTPH-Gx waters	N.D.	.048	mg/l	75	85	74-116	12	30
Batch number: 023440012A	Sample number(s): 3956532							
Diesel Range Organics	N.D.	.08	mg/l	66	75	55-126	12	20
Heavy Range Organics	N.D.	.1	mg/l					

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02337A55B	Sample number(s): 3956531-3956532								
Benzene	96	101	83-130	5	30				
Toluene	100	105	87-129	4	30				
Ethylbenzene	102	106	86-133	3	30				
Total Xylenes	102	106	86-132	3	30				
TPH by NWTPH-Gx waters	80	38*	74-132	53*	30				

### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Gx waters  
 Batch number: 02337A55B

	Trifluorotoluene-P	Trifluorotoluene-F
3956531	116	106
3956532	123	109
Blank	115	104
LCS	114	100
LCSD		102
MS	114	100
MSD	113	101
Limits:	71-130	57-146

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel  
 Batch number: 023440012A  
 Orthoterphenyl

3956532	107
Blank	79
LCS	88
LCSD	102
Limits:	27-135

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 12/20/02 at 06:15 PM

Group Number: 833773

Surrogate Quality Control

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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