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 45th Street

Seattle, Washington

RECEIVED

FEB 0 5 2003

WE HAVE ENCLOSED THE FOLLOWING:

DEPT OF ECOLOG

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:

Mr. Brett Hunter, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583 Mr. John Wietfeld, WDOE Northwest Region, 3190 160th 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

ublin, California 94568 • (925) 551-7555

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 45th 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.

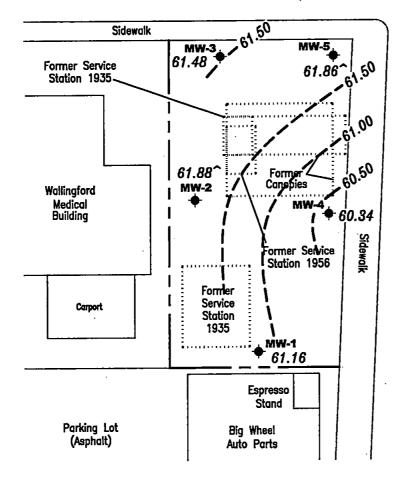
Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding

Project Coordinator

Robert C. Mallory Registered Geologist



EXPLANATION

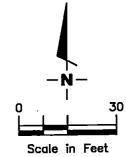
Groundwater monitoring well

99.99 Groundwater elevation in feet referenced to an arbitrary datum

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.



POTENTIOMETRIC MAP

STONE WAY SOUTH

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

REVISED DATE

PROJECT NUMBER REVIEWED BY 386750

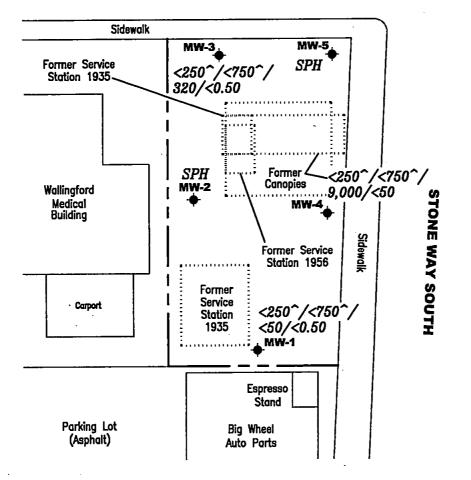
DATE March 8, 2002

FILE NAME: P:\Enviro\Chevron\209335\Q02-209335.dwg | Layout Tab: Pot1

TIGURI

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FIGURE



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

-N-0 30

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



CONCENTRATION MAP

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

REVISED DATE

PROJECT NUMBER 386750

REVIEWED BY

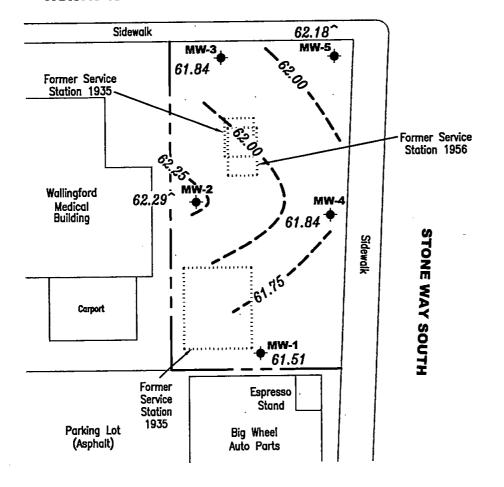
March 8, 2002

DATE

FILE NAME: P:\Enviro\Chevron\209335\Q02-209335.dwg | Layout Tab: Con1

Scale in Feet

2



EXPLANATION

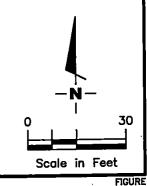
Groundwater monitoring well

Groundwater elevation in feet 99.99 referenced to an arbitrary datum

Groundwater elevation contour, dashed where inferred.

> Groundwater elevation corrected for the presence of separatephase hydrocarbons

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



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

REVIEWED BY



POTENTIOMETRIC MAP

May 29, 2002

DATE

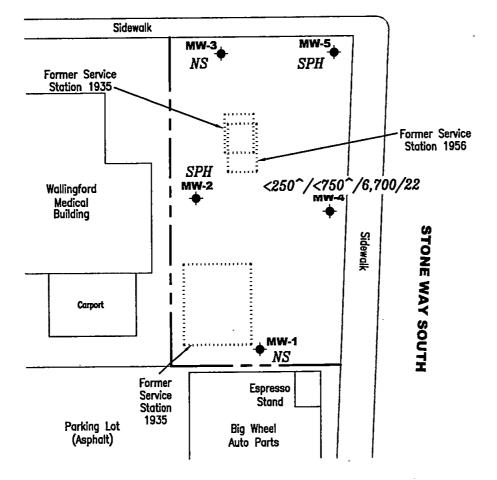
Former Chevron Service Station #209335 1225 North 45th Street Seattle, Washington

REVISED DATE

Dublin, CA 94568 (925) 551-7555

PROJECT NUMBER

386750 FILE NAME: P:\ENVIRO\CHEVRON\209335\Q02-209335.DWG | Loyout Tab: Pot2



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

-N-0 30

Scale in Feet

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



PROJECT NUMBER

386750

CONCENTRATION MAP

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

REVISED DATE

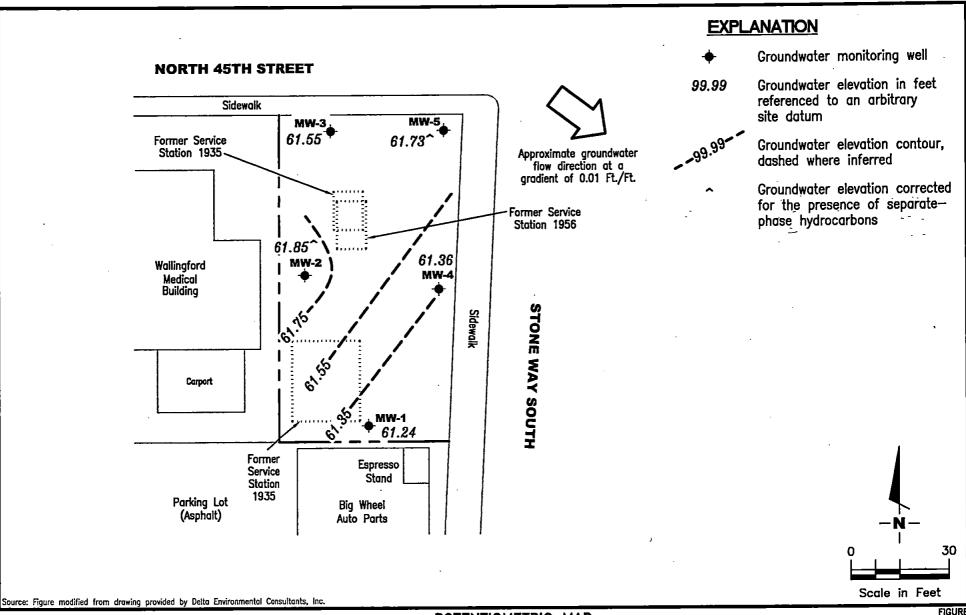
REVIEWED BY

DATE May 29, 2002

FILE NAME: P:\ENVIRO\CHEVRON\209335\Q02-209335.DWG | Layout Tab: Con2

FIGURE

4



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

DATE September 16, 2002 REVISED DATE

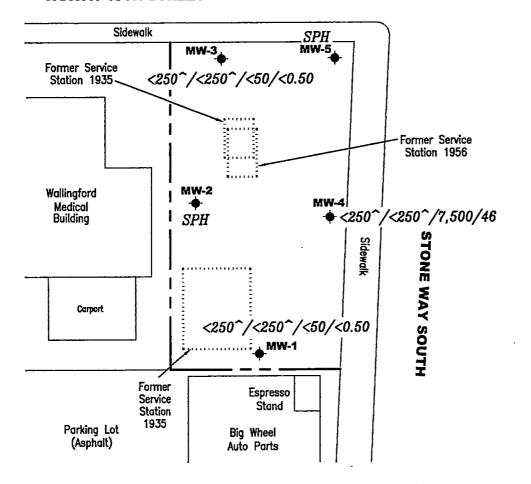
386750
FILE NAME: P:\ENVIRO\CHEVRON\209335\Q02-209335.DWG | Layout Tab: Pot3

REVIEWED BY

PROJECT NUMBER

FIGURE

F



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

-N-0 30

Scale in Feet

FIGURE

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



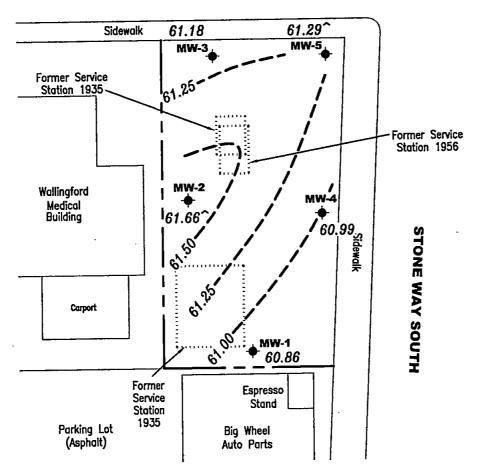
CONCENTRATION MAP

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

REVISED DATE

PROJECT NUMBER REVIEWED BY 386750

DATE September 16, 2002



EXPLANATION

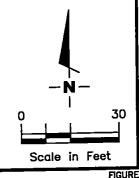
Groundwater monitoring well

99.99 Groundwater elevation in feet referenced to an arbitrary site datum

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.

REVIEWED BY



POTENTIOMETRIC MAP
Former Chevron Service Station #209335
1225 North 45th Street

Seattle, Washington

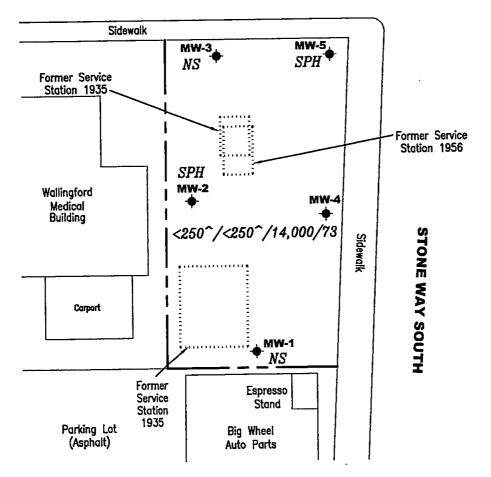
December 5, 2002

REVISED DATE

7

386750
FILE NAME: P:\ENVIRO\CHEVRON\209335\Q02-209335.0\G | Loyout Tab: Pot4

PROJECT NUMBER



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 gei cleanup

NS Not Sampled

SPH Separate Phase Hydrocarbons

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



CONCENTRATION MAP

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

REVISED DATE

PROJECT NUMBER REVIEWED BY

386750

Date December 5, 2002

Scale in Feet

FILE NAME: P:\ENVIRO\CHEVRON\209335\Q02-209335.DWG | Loyout Tab: Con4

8

FIGURE

30

Table 1
Groundwater Monitoring Data and Analytical Results

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

						Seattle, W	ashington						
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)
100 (14)						_							
MW-1													
97.95	10/11/001	34.50	63.45			23		 ND	ND	ND	ND .	ND	ND^4
	12/16/00	35.91	62.04	0.00	$ND^{2.3}$	ND ^{2,3}	74.4	ND ND	ND	ND	ND	ND	
	03/26/01	36.54	61.41	0.00	ND^3	ND ³	ND		<0.500	<0.500	<1.00		
	06/25/01	36.78	61.17	0.00	<281 ³	<842 ³	<50.0	<0.500	< 0.500	<0.500	<1.00		·
	09/24/01	37.14	60.81	0.00	<250 ^{3,8}	<500 ^{3,8}	<50.0	<0.500	<0.500	<0.500	<1.00		
	12/13/01	37.25	60.70	0.00	<250 ³	<500 ³	<80.0	<0.500		<0.50	<1.5		- :_
NP	03/08/02	36.79	61.16	0.00	<250 ³	<750 ³	<50	<0.50	<0.50				
	05/29/02	36.44	61.51	0.00	SAMPLED S				0.50	<0.50	 <1.5		••
NP	09/16/02	36.71	61.24	0.00	<250 ³	<250 ³	<50	<0.50	<0.50				
	12/05/02	37.09	60.86	0.00	SAMPLED S	EMI-ANNU	ALLY	••					
			·									•	
MW-2	10/11/00	34.50	64.20										
98.70	10/11/001		62.24	0.00	1,000 ³	ND^3	28,100	283	2,560	693	4,020	ND ²	0.0019
	12/16/00	36.46	61.58	0.00	1,180 ^{3.5}	ND^3	17,000	143	1,450	378	2,180	² ND/ND ⁶	
	03/26/01	37.12	61.33	0.00	418 ^{3.5}	<750 ³	11,700	92.3	547	181	1,010		
	06/25/01	37.37	60.98	0.00	4,840 ^{3,7,8}	<557 ^{3.8}	22,100	120	1,380	658	4,100		
	09/24/01	37.72	60.81	0.00	5,540 ^{3.5}	<500 ³	84,000	185	3,960	1,590	9,950		
	12/13/01	37.89	62.07**	0.76	NOT SAMP		O THE PRES	ENCE OF SP	H	••			
	03/08/02	37.24	62.47**	0.73	NOT SAMP	LED DUE T	O THE PRES	ENCE OF SP	PH				
	05/29/02	36.81	61.85**	0.73			O THE PRES						
	09/16/02	37.19	61.81**	0.44									
	10/15/02	37.24 37.12	61.99**	0.51									
	11/22/02		61.66**	0.51	NOT SAMP	LED DUE T	O THE PRES	ENCE OF SI	PH				
	12/05/02	37.51	01.00	0.57	1101 0111111								
MW-3	1	2100	CA 710						, 				
98.76	10/11/00 ¹	34.00	64.76		ND ³	ND ³	ND	ND	0.612	ND	1.95	ND	ND
	12/16/00	36.39	62.37	0.00	ND ³	ND ³	ND ND	ND	ND	ND	ND	ND	
	03/26/01	37.05	61.71	0.00	ND	שמ	ND	NU	112	•	-		

Table 1
Groundwater Monitoring Data and Analytical Results

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

							Seattle, Wa	ashington						D. Tarak
			DTW	GWE	SPHT	TPH-D	ТРН-О	TPH-G	В	T	E	X	MTBE	D. Lead
WELL ID/		DATE	DTW	(ft.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
roc*(ft.)			(ft.)	(1.)	0,	VI-7								
	, all	06105101	37.29	61.47	0.00	<250 ³	$<750^{3}$	<50.0	< 0.500	< 0.500	< 0.500	<1.00		
MW-3		06/25/01		61.12	0.00	<250 ^{3.8}	<500 ^{3,8}	< 50.0	< 0.500	< 0.500	< 0.500	<1.00		
(cont)		09/24/01	37.64	60.98	0.00	<250 ³	$<500^{3}$	<80.0	< 0.500	< 0.500	< 0.500	<1.00		
		12/13/01	37.78		0.00	<250 ³	$< 750^3$	320	< 0.50	0.64	2.1	15		
N		03/08/02	37.28	61.48	0.00	SAMPLED S		LLY						
		05/29/02	36.92	61.84	0.00	<250 ³	<250 ³	<50	< 0.50	< 0.50	< 0.50	<1.5	-	
N		09/16/02	37.21	61.55	0.00	SAMPLED S								
		12/05/02	37.58	61.18	0.00	SAMI EED S								
MW-4														
98.52		10/11/001	35.00	63.52		23	ND ^{2.3}	58,200	326	5,520	1,430	8,520	ND^2	0.0123
		12/16/00	36.35	62.17	0.00	ND ^{2,3}	ND^3	27,200	178	2,160	785	4,160	² ND/ND ⁶	
		03/26/01	37.00	61.52	0.00	266 ^{3.5}	<750 ³	12,300	69.0	654	416	1,910		
		06/25/01	37.25	61.27	0.00	<250 ³	<500 ^{3.8}	4,130	30.1	154	197	684		
		09/24/01	37.60	60.92	0.00	<250 ^{3.8}			30.3	175	177	679		
		12/13/01	37.72	60.80	0.00	<250 ³	<500 ³	5,490	<50	150	170	710		
N	NP	03/08/02	38.36	60.16	0.00	<250 ³	<750 ³	9,000	22	150	190	780		
N	NP	05/29/02	36.86	61.66	0.00	$<250^3$	<750 ³	6,700						
		08/07/02	36.92	61.60	0.00		3			230	240	630		
ľ	NP	09/16/02	37.16	61.36	0.00	<250 ³	<250 ³	7,500	46	400	540	1,500		
ľ	NP	12/05/02	37.53	60.99	0.00	<250 ³	<250 ³	14,000	73	400	340	2,000		
MW-5														
99.42		10/11/001	34.50	64.92		,	3		NID ²	15,100	4,160	24,100	ND^2	0.020
		12/16/00	37.18	62.24	0.00	5,080 ³	ND^3	146,000	ND ²	10,600	4,000	24,200	² ND/ND ⁶	
		03/26/01	37.91	61.51	0.00	77,900 ^{3.5}	ND^3	149,000	256		3,730	21,500		
		06/25/01	38.14	61.28	0.00	$109,000^3$	$<18,100^3$	127,000	210	9,580		21,300		
		09/24/01	38.40	61.05**	0.04			THE PRESEN						
		12/13/01	38.55	60.90**	0.04			THE PRESEN						
		03/08/02	37.96	61.86**	0.50			O THE PRES					-	
		05/29/02	37.60	62.18**	0.45	NOT SAMP	LED DUE T	O THE PRES	ENCE OF SPI	H				

Table 1 Groundwater Monitoring Data and Analytical Results

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

OATE 3/07/02 0/16/02	DTW (ft.) 37.73	GWE (ft.) 62.00**	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	(ppb)	(ppb)	(ppb)	(ppb) -	(ppb)	(ppb)	(ppm)
		62.00**							<u> </u>		VA E /	-,4 -
		62.00**										
0/16/02			0.39				••				••	
	38.00	61.73**	0.39	NOT SAMPI	LED DUE TO	THE PRESE	ENCE OF SPI	I				
)/15/02	38.09	61.63**	0.38									
/22/02	37.84	61.92**	0.42					••				
2/05/02	38.42	61.29**	0.36	NOT SAMPI	LED DUE TO	THE PRESE	ENCE OF SPI	Ĭ				
										-		
								-			-	
										-		- -
2/16/00						ND	ND	ND	ND	ND	ND	
3/26/01						ND	ND	ND	ND	ND	ND	
						<50.0	< 0.500	< 0.500	< 0.500	<1.00		
9/24/01						<50.0	<0.500	< 0.500	< 0.500	<1.00		
						<80.0	< 0.500	< 0.500	< 0.500	<1.00		
		**	••			<50	< 0.50	< 0.50	<0.50	<1.5		
•							< 0.50	< 0.50	< 0.50	<1.5		
								< 0.50	< 0.50	<1.5		
										<1.5		
21 31 31 31 31 31 31	215/02 22/02 205/02 216/00 226/01 225/01	715/02 38.09 722/02 37.84 705/02 38.42 716/00 726/01 724/01 713/01 708/02 729/02 716/02	715/02 38.09 61.63** 722/02 37.84 61.92** 705/02 38.42 61.29** 716/00 726/01 724/01 724/01 729/02 729/02 716/02	715/02 38.09 61.63** 0.38 722/02 37.84 61.92** 0.42 705/02 38.42 61.29** 0.36 716/00	715/02 38.09 61.63** 0.38 722/02 37.84 61.92** 0.42 705/02 38.42 61.29** 0.36 NOT SAMPI 716/00 726/01 724/01 713/01 708/02 729/02 716/02	715/02 38.09 61.63** 0.38 722/02 37.84 61.92** 0.42 705/02 38.42 61.29** 0.36 NOT SAMPLED DUE TO 716/00 726/01 724/01 724/01 728/02 729/02 729/02 716/02	15/02 38.09 61.63** 0.38	15/02 38.09 61.63** 0.38	15/02 38.09 61.63** 0.38	15/02 38.09 61.63** 0.38	15/02 38.09 61.63** 0.38 -	15/02 38.09 61.63** 0.38

	TPH-D	ТРН-О	TPH-G	В	T	Ē	X	MTBE	D. Lead
Standard Laboratory Reporting Limits:	250	250	50	0.50	0.50	0.50	1.5		0.00100
MTCA Method A Cleanup Levels:		1,000	1,000	5.0	40	30	20		<u></u>
Current Method:	NWTPH-D	+ Extended			NWTPH-G a	nd 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 DTW = Depth to Water GWE = Groundwater Elevation SPH = Separate Phase Hydrocarbon SPHT = Separate Phase Hydrocarbon Thickness	TPH-G = Total Petroleum Hydrocarbons as Gasoline B = Benzene T = Toluene E = Ethylbenzene X = Xylenes MTBE = Methyl tertiary butyl ether	(ppm) = Parts per million ND = Not Detected NP = No Purge = Not Measured/Not Analyzed MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 12/93].
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TPH-D = Total Petroleum Hydrocarbons as Diesel

D. Lead = Dissolved Lead

TPH-O = Total Petroleum Hydrocarbons as Oil (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)]
- Data provided by Delta Environmental Consultants, Inc.
- Detection limit raised. Refer to analytical reports.
- 3 TPH-D and TPH-O with silica-gel cleanup.
- Filtered at the laboratory.
- Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.
- MTBE by EPA Method 8260.
- Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- 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

WELL ID	DATE	DTW	SPH THICKNESS	AMOUNT BAILED (SPH + WATER)
	·	(ft.)	(ft.)	(gallons)
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
	٠,			
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



			_ Job Number: 3	UC 1001	
Site Address:	1225 45th Stree	t	Event Date:	8 7 02	
City:	Seattle, WA		Sampler:	Ben New	ton
			<u> </u>		
Well ID	MW-4	Well Condition	on: <u>DK</u>		
Well Diameter	2 in.	Hydrocarbon	 1 ,	Amount Bailed	
Total Depth	41.60 ft.	Thickness:	1 na ft.	(product/water):	_ D gal.
Depth to Water	36.92 ft.	Volum	ne 3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38
		Factor	r (VF) 4"= 0.66	5"= 1.02 6"= 1.50	12*= 5.80
	xVF	=	x3 (case volume) = Est	imated Purge Volume: _	gal.
Duras	D: 11 D "		Compling &		•
Purge Equipment:	Disposable Bailer		//.		
Equipment.	Stainless Steel Baile	ır	- /		
	Stack Pump		_ ·	Discrete Bailer	
	Suction Pump		_	Other:	
	Grundfos	/	- `		
	Other:		-		
Sample Time/Da Purging Flow Ra	ate: gpm.	Water Col Sediment Description	on:		
Did well de-wate	ar? II !	yes, Time:	volume:	gal.	
Time (2400 hr.)	Volume (gal.)	Conductivity (u mhos/cm)		D.O. (mg/L)	ORP (mV)
	- _.	/			
		Z			
				<u> </u>	
		LABORATORY II			NOTE:
SAMPLE ID		FRIG. PRESERV. TY			YSES
SAMPLE ID MW-				ANAL TPH-G/BTEX/MTBE	YSES
		FRIG. PRESERV. TY			YSES
		FRIG. PRESERV. TY			YSES
	x voa vial	YES HCL			YSES
		YES HCL			YSES



GETTLER-RYAN INC.

Site Address:		9335	Job Number:	386750	
	1225 45th Street		Event Date:	8-7-02	
City:	Seattle, WA		Sampler:	BWN	
Well ID	mw- 5	Well Condition	: ok		<u> </u>
Well Diameter	2 in.	Hydrocarbon		Amount Bailed	
Total Depth	39.21 ft.	Thickness:	/39 ft.		る i gal.
Depth to Water	37.73 ft.	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	1
		Factor (\		5"= 1.02 6"= 1.50	
٠.	xVF	=	x3 (case volume) = E	stimated Purge Volume:	gal.
_					
Purge	Disposable Bailer		Sampling	Disposable Bailer _	
Equipment:	Stainless Steel Bailer	·	Equipment:	Pressure Bailer	· · · · · · · · · · · · · · · · · · ·
	Stack Pump		7	Discrete Bailer	
	Suction Pump			Other:	T.
	Grundfos			1	1
	Other:				•
Did well de-water Time (2400 hr.)	Volume (gal.)	Conductivity (u mhos/cm)	Volume: Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
		BORATORY INF			
SAMPLE ID MW-	(#) CONTAINER REFRIG.	PRESERV. TYPE	LABORATOR		YSES
IMAA+	x voa vial YES	HCL	$\overline{}$	TPH-G/BTEX/MTBE	
			1	·	<u> </u>
	Y2 1. 1 🛰	\ 5 101	1.3		į.
COMMENTS:	Bailed ~ 2	gal SP1	<u> </u>		1



lient/Facility #:	Chevron #209335		Job Number:		
Site Address:	1225 N. 45th Street		Event Date:	10-15-02	
City:	Seattle, WA	<u> </u>	Sampler:	BWN	
Vell ID	<u>ww</u>	Well Condition	:oK		
Vell Diameter	2 in.	Hydrocarbon	บน้	Amount Bailed	7 .
otal Depth	41.62 11.	Thickness:	ft.	(product/water):	gal.
Depth to Water	37.24 ft.	Volume		1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
		Factor (
	xVF	=	_x3 (case volume) = E	stimated Purge Volume:	gai.
Purge	Disposable Bailer		Sampling	Disposable Bailer	•
Equipment:	Stainless Steel Bailer		Equipment:		
	Stack Pump			Discrete Bailer	
•	Suction Pump		/	Other:	
,	Grundfos				
	Other:		,		
			<u> </u>		
Stort Time (pure	e):	eather Condition	S:		1
., -	e) v ate: /	/	or:	Odor:	
	ate: gpm. Sec	diment Description			t
	·····	7ime:			
Did well de-wat		/ <u> </u>			
Time	Volume	Conductivity	Temperature	/ D.O. (mg/L)	ORP (mV)
(2400 hr.)	(gal.)	(umhos/cm)	(C/F)	(mg/L)	(1114)
			,	_	
				<u> </u>	
		LABORATORY			
SAMPLE ID	(#)/CONTAINER REFRI	G. PRESERV. TY			LYSES
SAMPLE ID MW-	(#) CONTAINER REFRI	G. PRESERV. TY		RY ANA	
	("/ =	G. PRESERV. TY			
	("/ =	G. PRESERV. TY			
	x voa vial YES	G. PRESERV./TYI	PE LABORATOI		
MW-	x voa vial YES	G. PRESERV./TYI			
	("/ =	G. PRESERV./TYI	PE LABORATOI		
MW-	x voa vial YES	G. PRESERV./TYI	PE LABORATOI		



GETTLER-RYAN INC.

Client/Facility #: Site Address: City:	Chevron #209335 1225 N. 45th Street Seattle, WA		Job Number: Event Date: Sampler:	386750 10-15-02 BWN		
Well ID Well Diameter Total Depth Depth to Water	MW- 5 2 in. 39.2\ ft. 38.09 ft.	Well Condition: Hydrocarbon Thickness: Volume Factor (V	3/4"= 0.02 F) 4"= 0.66	<u> </u>	gal. 3'= 0.38 12'= 5.80 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 Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.)	ate: / ate: gpm. Sedin	water Conditions: Water Color: nent Description: me: Conductivity (umhos/cm)		gal. D.O. (mg/L)	ORP (mV)	
SAMPLE ID MW- COMMENTS:	#) CONTAINER REFRIG. x voa vial YES Barled ~ 2	PRESERV. TYPE HCV gal SPH		Y ANAL' TPH-G/BTEX/MTBE	YSES	-
Add/Replac	ed Lock:	A	dd/Replaced P	Plug: Size	ə: <u> </u>	



Chevron #209335		Job Number:	386750	
1225 N. 45th Street		Event Date:	11-22-102	(inclusi
Seattle, WA		Sampler:	BMM	
MW- 2	Well Condition	: OK		
2 in. 41.62 ft.	Hydrocarbon Thickness:	۲)	Amount Bailed (product/water):	2 gal.
37.12 ft.	Volume Factor (V	3/4"= 0.02 (F) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
xVF	=	x3 (case volume) = I	Estimated Purge Volume:	gal.
Disposable Bailer Stainless Steel Bailer Stack Pump		Sampling Equipment:		
Suction Pump			Other:	
Grundfos Other:			<i></i>	
· 	/		Odor	
			/	
			gal.	
Volume pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
71	ABORATORY IN	ORMATION /	7	
(#) CONTAINER REFRIG.				YSES
x voa viat YES	HCL		TPH-G/BTEX/MTBE	
	-		- 	
<u> </u>	SPH	<u> </u>		
	MW- 2 2 in. 41.62 ft. 37.12 ft. xVF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other: b: gpm. Sedir f? lf yes, T Volume (gal.) L (#) CONTAINER REFRIG.	MW- 2 in. Hydrocarbon Thickness: 37.12 ft. Volume Factor (Volume Grundfos Other: Weather Conditions	Seattle, WA Sampler:	Seattle, WA Sampler: BWN

Client/Facility #:	Chevron #209335		Job Number:	386750					
Site Address:	1225 N. 45th Street		Event Date:	11-22-02		· (inclusive)			
City:	Seattle, WA		Sampler:	PMN	7				
Well ID	MW- 5	Well Condition:	OV_		·				
Well Diameter	2 in.	Hydrocarbon	110	Amount Bailed	~	•			
Total Depth		hickness:	142 n	(product/water):	ے gal.	-			
Depth to Water	<u>37.84</u> ft.	Volume Factor (VF	3/4"= 0.02 3/4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80				
	xVF	_=;	(3 (case volume) = E	Estimated Purge Volume:	gal.	•			
Purge	Disposable Bailer		Sampling	Disposable Bailer _		,			
Equipment:	Stainless Steel Bailer	/	Equipment:	Pressure Bailer _					
	Stack Pump			Discrete Bailer		-			
	Suction Pump			Other:	<u> </u>	-			
	Grundfos								
	Other:								
Start Time (purge Sample Time/Da Purging Flow Ra Did well de-wate	ate: / Sedime	ner Conditions: Water Color: ent Description:		Odor:		- -			
Did well de-wate	er?n yes, rim	e:	volume:/	gal.	,				
Time (2400 hr.)	Volume pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)	-			
	-	/				-			
						- -			
/	<u> </u>			 -	1	-			
		ORATORY INFO		<u> </u>					
SAMPLE ID	 	PRESERV. TYPE	LABORATOR		YSES				
MW-	x voa viar YES	HCL	\longrightarrow	TPH-G/BTEX/MTBE	<u> </u>				
			-/	\					
			(_			
COMMENTS:	Boiled N 2 gal	SPTH			•				
Add/Replac	ced Lock:	A	dd/Replaced P	Plug:Siz	:e:				

FORMER CHEVRON SERVICE STATION #209335 Seattle, Washington

MONITORING & SAMPLING EVENT OF MARCH 8, 2002

Address 122	5 North 4	5h St	Date:	8.02		
Address. Jee	Ale, WH		Sampler:	1.v		
City:	The solid				······	
Well ID	MW 1	Well Condition	n: oK			
Well Diameter	2 in.	Hydrocarbon Thickness:	(*)	Amount Baile (product/water)	1.3	(Gallons)
Total Depth	38.35 n.	Volume	2° = 0.17	3" = 0.38	4". 2" = 5.80	= 0.66
Depth to Water	36.79 n.	Factor (VF)	6* = 1.5			
	× '	VF :	X 3 (case volume) =	Estimated Purge	Volume:	(nal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	Eq	Bai Pre Gra	posable Baile ler ssure Bailer ab Sample her:	- 	
	900	Weather	Conditions:	snow	·	
Starting Time:	915		olor:		Odor:	
Sampling Time:	te:	- **	t Description:			·
• •	er?		Time:	Volume	:	(gal.)
Time	Volume pH (gal.)	Conductivity µmhos/cm	Temperature •F	D.O. (mg/L)	ORP (mV)	· Alkalinity (ppm)
	/	<u> </u>	/			•
						
						
						- · · · · · · · · · · · · · · · · · · ·
		LABORATORY I	INFORMATION	DATORY	.AMAL	YSES "
SAMPLE ID	(#) - CONTAINER		V. TYPE LABO	h caster	GOS/BIE	
MW	4 VOAVEAL	Y	1 1	rusia		Ext w/56
	2 Amber L					
MW !						
MW						

Client/ Facility#+Cox	no Cheve	m#2093	35 Job#:		8675	0	
Address: 122	5 North	45m St	_ Date:		3-8-02		
City: Sead	Hle, WY	<u> </u>	Samp	ler:	Law		
Well ID	WW & 3	Well Cor	ndition:	o¥.			
Well Diameter	in.	Hydroca Thicknes			mount Baile product/water)		[Gallons]
Total Depth Depth to Water	41.60 n. 37.24 n.	Factor (17 6" = 1.50	3" = 0.38 0 1	2* = 5.80 ^{4*}	= 0.66
	x	VF =_	X 3 (case	volume) = E	stimated Purge	e Volume:	(gal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundtos Other:		Sampling Equipment	Baile Pres Grai	oosable Baile er ssure Bailer b Sample er:		
Starting Time:	970	We	ather Condition	ons:	Snow	· ·	
Sampling Time:	415	_	ter Color:			Odor:	-
	er?		liment Descripes;			:	(ga).
Time	Volume pH (gal.)	Conducti		erature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
			/				
			<u> </u>				
			ORY INFORMA	ATION	ATORY	·ANAL	VSES.
SAMPLE ID	(#) - CONTAINER	REFRIG. PI	RESERV. TYPE	LABUI	TATURT	'ANAL'	Jea
							i
	/_	-					
COMMENTS:	Eqile DUMMAGE	d - 2g	al SPH				<u> </u>
	70 [110E						9/97-fieldat.fr

Client/ Facility# \\\	non Chevres			Job#:	38675	0	
Address: 122	5 North 4	5th J	大	Date.	3-8-02		
City: Seed	Hle, WX	· · · · · · · · · · · · · · · · · · ·		Sampler: _ <u>f</u>	un		
Well ID	MW 3	Well	Condition	· OK			
Well Diameter	<u> </u>		ocarbon kness:	Ø (feet)	Amount Ba (product/wat	7 /	(Gallons)
Total Depth	37.28 n		ume Lor (VF)	'2" = 0.17 6" =	3" = 0.38 1.50	12" = 5.80	= 0.66
Depth to Water	x	VF	,	(3 (case volume)	= Estimated Pu	rge Volume: _	(JBD)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:			В Р	isposable Ba ailer ressure Baile irab Sample Other:	er	
Starting Time: Sampling Time:			Water Co	Conditions:lor:lor:		Odor: 10	
Did well de-wat				ime:		ne:	(gs).
Time	Volume pH (gal.)		ductivity hos/cm	Temperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		- 	 ,	/		<u> </u>	
	/				. 		***
		LABOF	RATORY II	NFORMATION TYPE LA	BORATORY	·ANA	Lyses
MW 3	(#) - CONTAINER	Y	HU		<u>.</u>	Gas/BIE	
MW 3	2 Amber 2	V	L			THID)4E	
COMMENTS:	NO PURGE	·					

Client/ Facility#\c	rnarcho	Non #	209335	Job#:	_386	750	
Address: 12	25 NOW	n 45h	42	Date:	3-8-1	172	
City: Sea	14 00 11	144		Sampler	. BWN		
City:	14 m	<u></u>		Campion	•		
Well ID	MWW	4 ,	Well Condition	n:	1×		
Well Diameter			Hydrocarbon		Amou	nt Bailed	(Gallons)
Total Depth	41.62	ft.	Thickness:	-,	3° =		4" = 0.66
Depth to Water	30 26		Factor (VF)		6" = 1.50	1,2" = 5.	
•		x vf <u>-</u> _	=	X 3 (case volu	ıme) = Estima	ted Purge Volum	ne:(gal.)
Purge Equipment:	Disposable Bailer Stack Suction Grundfos Other:			ampling quipment:	Disposab Bailer Pressure Grab Sar Other:	Bailer	
Starting Time:	1000	· · · · · · · · · · · · · · · · · · ·	Weather	Conditions		ow	
Sampling Time	1015		Water C	olor: <u>داه</u>	at	Odor:_	yes_
Purging Flow F	late:	gom.					•
Did well de-wa	ter?		If yes;	Time:		/olume:	(qa).
Time	Volume (gal.)	рН <i>-</i> _	Conductivity umhos/cm	Tempera •F		.O. OR	
		/-				·••	·
		/ -		/			
	<i>/</i> _						
	 -						
		1.0	BORATORY	INFORMAT	ION		
SAMPLE ID	(#) - CONTA		IG. PRESER	V. TYPE	LABORATO	RY .	ANALYSES
MW2	4 YOXV		Hc		Lanc.		B9754
m Z	2 Ambo		4		<u> </u>	TPHU) + Ext W/SG
							
<u></u>		<u>_</u>					
COMMENTS:	NO P	URGE_					
					•		0.00

Client/ Facility# +CX	nor Chouses	m#209335	Job#: _3	86750)	
Address: 122	5 North 4	ish st	Date:	3-8-02		
City: Soat	tle, WH		Sampler:	3WN		
Well ID	_MW_5_	Well Condition	n: <u>ok</u>			•
Well Diameter	<u> </u>	Hydrocarbon Thickness: _	L7 1	Amount Baile (product/water)	1	(Gallons)
Total Depth	39.21 n. 37.96 n.	Volume Factor (VF)	2" = 0.17 6" = 1.5	3° = 0.38	2" = 5.80 4"	= 0.66
Depth to Water		VF=	X 3 (case volume) =	Estimated Purge	· Volume:	(qal.)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	Sa . Ed	ampling quipînent: Dis Bai Pre Gra	posable Baile		
• •		Water C	Conditions:	-	,	(gal.)
Did well de-wate	Volume pH	Conductivity	Time: Temperature •F	D.O. (mg/L)	ORP (mV)	·Alkalinity
	(gal.)		/			
	/ -					
						:
		LABORATORY	INFORMATION V. TYPE LABO	BATORY	·ANAL	YSFS.
SAMPLE ID	(#) - CONTAINER	PRESER	V. TTPE	MATON		
	D 11 1		<u> </u>			
COMMENTS:	Bailed ~	2 gal.	<u> </u>			
	·					



	10006
Acct. #:	10905

For Lancaster Laboratories use only Sample #: 3785983-86

SCR#:_

											А	naly	ses	Keq	ues	(8a				_			
Facility #: 209335 Job #386	750			Т	Matri	x						rese	_	ion	Cod	_				_		vative Co	
1 Bolinty #1								_	_	-	Й	<u> </u> †	-		\vdash	H	-		\dashv	H = H(N = H)		T = Thi B = Na	osulfate OH
Site Address: 1225 N. 45th Street, SEA	•			\perp				Ę												S = H ₂		O = Ot	
Chevron PM: Brett Hunter Lead	Consultant:_[<u>Delta</u>		.	0 0	,	STS.	g B	'	1		<u>a</u>			_				. I	☐ J val	ие гер	orting need	ed
Consultant/Office: <u>G-R, Inc., 6747 Sier</u>	a Court, Du	blin, Ca 9	<u>4568</u>	·	Potable NPDES		Total Number of Containers	8021 🖂 8260 🗀 Naphth 🗆				D Z Extended Rng.	ethod		quantification	7	`			☐ Must	meet	lowest dete	ection limits
Consultant Prj. Mgr.: Deanna L. Harding	(Dea	nna@grin	c.con	n)			ö	 				a Gel	2		uant	1408 1408		}				onfirmation	
Consultant Phone #: 925-551-7555	Fax #:g	25-551-7	399_	.		7	r o	170		g			iss.			(X)	,	-				BE + Napl	
Sampler: Ben Newton				ē.		۸ic	를 물		=	Oxygenates	၂		Ö		NWTPH H HCID	ノメ		•	•	Conf	im hig	hest filt by	8260
Service Order #: D	on SAR:] _ [SO S	_		₹	ļ₹	S	ð	TPHG	X TPHO	Total B	H	ЖЖ	STEX		-				hits by 826 xy s on hig	
Sample Identification	Date Collected	Time Collected	Grab	Composite	Water	Oilo	Tota	BTEX + MTBE	8260 full scan		X	X	Lead Total	VPHÆPH	NWT	A						xys on all	
TB LB	3.8-02	Concoled	X	1	X	1	2				X					X				Comm	ents	/ Remark	8
Mw I	1	915	X		X		5				K	X			L	<u>X</u>							
MW2		1015	X		X		5	<u> </u>	Ŀ	<u> </u>	X	X		_	_	ĺΧ							
MW 3	1	945	X	_	\perp	1_	5	辶	ــــــــــــــــــــــــــــــــــــــ	┞	X	X	ļ	_		∇							
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	<u> </u>		$\downarrow \downarrow$	_			 	┢	╁	┞	├		<u> </u>	⊣	 				-				
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			╂─╁	\dashv		╁	┢	\vdash	+	1	╁─	-	1	╁╴	+	_	一	<u> </u>					
			╂─┼	╅	+-	+	一	╁	†-		 	<u> </u>	T	╁			<u> </u>	T			•		
		<u> </u>	++	+		-	†	1-	\dagger	T													
	 	 	1 1	十	\dashv	1	1	Τ															
			1 1	7										<u> </u>				<u> </u>	Ļ				
	1-3	Relingu	ished t	y:	1					_	Date		Time 500		Rece	ived	by:					Date	Time
Turnaround Time Requested (TAT) (please ci			ur_	71	IMP.	<u> </u>				၂ ၁	S-or.	—⊢'	Time		Rece	ived	hv:	_				Date	Time
STD. TAT 72 hour 48 hour 24 hour 4 day 5 day		Relinqu	ished t	y: 						-	Date		11110				٠,.		_				<u> </u>
Data Package Options (please circle if required)		Relinqu	ished t	y:		_	_			\top	Date	1	Time	•	Rece	ived	by:					Date	Time
					<u></u>			=_:		<u> </u>		==		╬	Doco	iyed	bv:		<u> </u>			Date	Time
QC Summary Type I - Full Type VI (Raw Data) Disk / EDD		Relinqu UPS	,,	y Co FedE			mer: ther								71		~ , .	\mathcal{Z}	10	$\kappa \rightarrow$	i	3/1/00	0920
WIP (RWQCB) Standard Format Other.		Tempe	_	_				1.0	ǰ			_	_	1	Crusto	ody S	eals	Inte	ct?	Yes	N		
Disk .				_			4	-50						_ـــــــــــــــــــــــــــــــــــــ	-	_		_				2466.5	a 0/6/04



ANALYTICAL RESULTS

Prepared for:

REGEIWEU

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

MAR I gran

San Ramon CA 94583-0904 ETTLEK-RY APR 11VC 925-842-8582 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	<u>Lançaster Labs Number</u>
TB LB Water Sample	3785583
MW 1 Grab Water Sample	3785584
MW 2 Grab Water Sample	3785585
MW 3 Grab Water Sample	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



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

Respectfully Submitted,

Christine M. Dulaney
Sr. Chemist



Page 1 of 1

Lancaster Laboratories Sample No. WW 3785583

Collected:03/08/2002 00:00

Submitted: 03/11/2002 09:20 Reported: 03/21/2002 at 21:51

Discard: 04/21/2002 TB LB Water Sample

Facility# 209335 Job# 386750 1225 N.45th Street - Seattle, WA Account Number: 10905

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

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)	.				
00776 00777 00778 00779	Benzene Toluene Ethylbenzene Total Xylenes A site-specific MSD sample was was performed to demonstrate pr		for the project.		ug/l ug/l ug/l ug/l	1 1 1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters A site-specific MSD sample was was performed to demonstrate pr				ug/l	1

State of Washington Lab Certification No. C259

Labo	ratory	Chron	icle
Labe	TALOTA		

CAT			4	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	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 -	1	03/13/2002 07:44	Darvin L Martin	1
01146	GC VOA Water Prep	8015B Mod. SW-846 5030B	1	03/13/2002 07:44	Darvin L Martin	n.a.

717-656-2300 Fax: 717-656-2681



Page 1 of 2

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 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	N.D. N.D.	250. 750.	ug/l ug/l	1 1
08213	BTEX (8021)				ı	
00776 00777 00778 00779	Benzene Toluene Ethylbenzene Total Xylenes A site-specific MSD sample was was performed to demonstrate pr				ug/l ug/l ug/l ug/l	1 1 1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters A site-specific MSD sample was was performed to demonstrate pr				ug/1.	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

C3.III	Analysis					
CAT			m:-3.8	-	31	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97-	1	03/13/2002 17:21	Devin M Lahr	1
	w/SiGel	602(modified)				
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 -	1.	03/13/2002 10:08	Darvin L Martin	1
	_	8015B Mod.				
01146	GC VOA Water Prep	SW-846 5030B	1	03/13/2002 10:08	Darvin L Martin	n.a.

#=Laboratory MethodDetection Limit N.D.=Not detected at or above the Report of Emit

Lancaster, PA 17605-2425

717-656-2300 Fax: 717-656-2681

2216 Rev. 9/11/00

Analysis Report



Page 2 of 2

Lancaster Laboratories Sample No. WW 3785584

Collected: 03/08/2002 09:15 by BN Account Number: 10905

Submitted: 03/11/2002 09:20 Chevron Products Company Reported: 03/21/2002 at 21:51 6001 Bollinger Canyon Road

Discard: 04/21/2002 Building L PO Box 6004
MW 1 Grab Water Sample 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, 1 03/13/2002 14:15 Joseph S Feister

07003 Extraction - DRO (Waters) NWTPH-Dx, ECY 97-602, 1 03/13/2002 09:40 Joseph S Feister 1 6/97



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

· As Received

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

12252

				110 110002104		
CAT	.		As Received	Method	3 L -	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	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 a	not submitted :	for the project.	A LCS/LCSD		
	was performed to demonstrate pro	ecision and ac	curacy at a batch	level.	·	
	Due to the presence of an inter- reporting limit was not attained presence or concentration of the	d for benzene.	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 was performed to demonstrate pr		• •	•		

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT Analysis Name Method Trial# Date and Time Analyst Factor

#=Laboratory MethodDetection Limit N.D.=Not detected at or Book 12425 | Po Box 12425

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



Page 2 of 2

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						
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97-	1	03/13/2002 17:46	Devin M Lahr	1
	w/SiGel	602 (modified)				
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 -	1	03/14/2002 12:34	Linda C Pape	10
	-	8015B Mod.				
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,	1	03/13/2002 14:15	Joseph S Feister	1
	_	6/97				
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602,	1	03/13/2002 09:40	Joseph S Feister	1
		6/97				

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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

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	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 pr	ecision and a	ccuracy at a bate	ch 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 was performed to demonstrate pr					
	was berrormed to demonstrate br	.ccrbron und a	coursely at a back			

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT		-	•	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97-	1	03/14/2002 16:58	Devin M Lahr	1
	w/SiGel	602(modified)				
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 MethodDetection & interpretation detection limit

N.D.=Not detected at 51 Hoope New Holland Pike Limit

Lancaster, PA 17605-2425

717-656-2300 Fax: 717-656-2681



Page 2 of 2

Lancaster	Laboratories	Sample No.	WW	3785586
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Collected: 03/08/2002 09:45 by BN Account Number: 10905

Submitted: 03/11/2002 09:20 Chevron Products Company Reported: 03/21/2002 at 21:52 6001 Bollinger Canyon Road

Discard: 04/21/2002 Building L PO Box 6004
MW 3 Grab Water Sample 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, 1 03/14/2002 04:45 JoElla L Rice

07003 Extraction - DRO (Waters) NWTPH-Dx, ECY 97-602, 1 03/14/2002 01:25 JoElla L Rice 1 6/97

Analysis Report

Group Number: 799747



Page 1 of 2

Client Name: Chevron Products Company

Reported: 03/21/02 at 09:52 PM

Laboratory Compliance Quality Control

	, ,/							
	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
<u>Analysis Name</u>	Result	MDL	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	RPD Max
Batch number: 020710018A			3785584-37				_	
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 nu	mber(s):	3785583-37	85584,378	5586			
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
		-	3,	•				
Batch number: 020720004A	Sample nu	mber(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 nu	mher(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
	N.D.	.5	ug/l	91	97	81-119	7	30
Ethylbenzene	N.D.	1.5	ug/l	93	98	82-120	5	30
Total Xylenes		50.	-	103	106	76-126	4	30
TPH by NWTPH-Gx waters	N.D.	30.	ug/l	103	100	70-120	7	30

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 02071A02A	Sample	number	(s): 378558	3-37855	84,378	5586			
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): 378558	35					
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, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681





Page 2 of 2

Client Name: Chevron Products Company

Reported: 03/21/02 at 09:52 PM

Group Number: 799747

venoried.	03/21/02 at 09:52	PM	
	•	Surrogate Quality Control	
	Orthoterphenyl		
3785584	51		-
3785585	54		
Blank	55		
LCS ,	54		
LCSD	56	•	
Limits:	50-150		
	me: BTEX (8021)		•
Batch numbe	r: 02071A02A	mul Clinamahal nana T	
	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	
MS	71-130	108 67–135	
MS Limits:	71-130	67–135	
MS Limits: Analysis Na	71-130	67–135	
MS Limits: Analysis Na	71-130 me: TPH by NWTPH-Dx(water: 020720004A	67–135	
MS Limits: Analysis Na	71-130	67–135	
MS Limits: Analysis Na Batch numbe	71-130 me: TPH by NWTPH-Dx(water: 020720004A	67–135	
MS Limits: Analysis Na Batch numbe	71-130 me: TPH by NWTPH-Dx(wat er: 020720004A Orthoterphenyl	67–135	
MS Limits: Analysis Na	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl	67–135	
MS Limits: Analysis Na Batch numbe	71-130 mme: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61	67–135	
MS Limits: Analysis Na Batch numbe	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54	67–135	
MS Limits: Analysis Na Batch numbe 3785586 Blank LCS LCSD Limits: Analysis Na	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 mme: BTEX (8021)	67–135	
MS Limits: Analysis Na Batch numbe 3785586 Blank LCS LCSD Limits: Analysis Na	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 me: BTEX (8021) er: 02073A02A	67-135 er) w/siGel	
MS Limits: Analysis Na Batch numbe 3785586 Blank LCS LCSD Limits: Analysis Na	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 mme: BTEX (8021)	67–135	
MS Limits: Analysis Na Batch numbe 3785586 Blank LCS LCSD Limits: Analysis Na	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 me: BTEX (8021) er: 02073A02A	67-135 er) w/siGel Trifluorotoluene-F	
MS Limits: Analysis Na Batch numbe 3785586 Blank LCS LCSD Limits: Analysis Na Batch numbe	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 me: BTEX (8021) er: 02073A02A Trifluorotoluene-P	67-135 er) w/SiGel Trifluorotoluene-F	
Limits: Analysis Na Batch number 3785586 Blank LCS LCSD Limits: Analysis Na Batch number	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 me: BTEX (8021) er: 02073A02A Trifluorotoluene-P	67-135 er) w/siGel Trifluorotoluene-F	
Limits: Analysis Na Batch numbe 3785586 Blank LCS LCSD Limits: Analysis Na Batch numbe	71-130 me: TPH by NWTPH-Dx(water: 020720004A Orthoterphenyl 61 61 54 56 50-150 me: BTEX (8021) er: 02073A02A Trifluorotoluene-P 102 101	67-135 er) w/siGel Trifluorotoluene-F 103 95	

*- Outside of specification

Limits:

(1) The result for one or both determinations was less than five times the LOQ.

67-135

(2) The background result was more than four times the spike added.



71-130

FORMER CHEVRON SERVICE STATION #209335 Seattle, Washington

MONITORING & SAMPLING EVENT OF MAY 29, 2002

Client/ Facility#\tax	ran Charles	#209335		38675	<u>D</u>	
Address: 122	5 North 4	5m JX	Date:	5-29-02		
City: Seat	tle, WX		Sampler:			
Well ID	mw 1	Well Condition	on: <u>0</u> K			 .
Well Diameter	2 <u>in.</u>	Hydrocarbor Thickness: _	0 "	Amount Bail (product/water		(Gallons)
Total Depth Depth to Water	38.35 n. 36.44 n.	Volume Factor (VF)	2" = 0.17	3" = 0.38 5" = 1.50	4" = 12" = 5.80	0.66
	x \	/F =	X 3 (case volum	me) = Estimated Purg	e Volume:	(<u>qal.</u> }
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:	E	Sampling Equipment:	Disposable Bail Bailer Pressure Bailer Grab Sample Other:		
Starting Time: Sampling Time: Purging Flow Ra	te:	Water	er Conditions: Color: ent Descriptio	n:	Odor:	
Did well de-water		If yes;	Time:	Volum		<u>(qal.)</u>
Time	Volume pH (gal.)	Conductivity µmhos/cm	Temperat	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

		LABORATOR	/ INFORMATI	ON	·ANALY	SES
SAMPLE ID	(#) - CONTAINER	REFRIG. PRES	ERV. TYPE	LABORATORY	FIALET	
	Monitoring	only				

Address: 1225 North 45th St Date: 5-29-37 City: Sampler: Sampler: Sampler: Sampler: Sampler: Sampler: Sampler: Sampler: Sampler: Starting Time: Sampling Ti	Client/ Facility# FCX	nor Cherry	m#209335	Job#: _3	86750)	
Well ID MW & Z Well Condition: Well Diameter	Address: 122	5 North 4	5h St	Date			
Well Diameter In	City: Soat	tle, WX		Sampler:			
Total Depth Total Depth Thickness: Thickness Thickness	Well ID		Well Condition				
Total Depth Depth to Water Total Depth	Well Diameter	<u> </u>				- 1	(Gallons)
Purge Disposable Bailer Equipment: Bailer Stack Stack Suction Grundfos Other: Starting Time: Sampling Time: Purging Flow Rate: Did well de-water? Time Volume (gal.) SAMPLE ID (#) - CONTAINER Sampling Equipment: Bailer Bailer Bailer Bailer Bailer Bailer Bailer Grab Sample Other: Odor: Sediment Description: If yes; Time: Volume: Sediment Description: Furpherature ORP Alkalinity (ppm) ABORATORY INFORMATION REFRIG. PRESERV. TYPE: LABORATORY ANALYSES	•	3/ 8]	Volume				= 0.66
Equipment: Bailer Stack Stack Suction Grundfos Other: Starting Time: Starting Time: Purging Flow Rate: Disposable Bailer Bailer Grab Sample Other: Weather Conditions: Weather Color: Sediment Description: Purging Flow Rate: Did well de-water? Time Volume (gal.) ABORATORY INFORMATION SAMPLE ID SAMPLE ID Sample Other: ABORATORY INFORMATION REFRIG. PRESERV. TYPE LABORATORY ANALYSES		x ·	VF=	X 3 (case volume) =	Estimated Purge	Volume:	(nal.)
Sampling Time: Purging Flow Rate: Did well de-water? Time Volume (gal.) Conductivity pH Conductivity pmhos/cm F Conductivity pmhos/cm Verer Color: Sediment Description: If yes; Time: Conductivity Temperature oF (mg/L) (mV) (ppm) ABORATORY INFORMATION SAMPLE ID ABORATORY PRESERV. TYPE LABORATORY ANALYSES		Bailer Stack Suction Grundfos	E	quipment: Dis Bail Pre Gra	er ssure Bailer Ib Sample		
Time Volume pH Conductivity Temperature D.O. ORP Alkalinity (gal.) (my/L) (my/L) (my/L) (ppm) LABORATORY INFORMATION SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES	Sampling Time:		Water C	Color:	7	odor:	
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY INFORMATION ANALYSES ANALYSES	• •				Volume:		(.lgp)
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES -	Time			, .			· Alkalinity (ppm)
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES -							
SAMPLE ID (#) - CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES Y Note Sample de Cod to SPH		$\neq =$		·			411.5
Not sompled that to SPH		<u></u>	LABORATORY	INFORMATION			vere -
COMMENTS: Not sampled and to SPH	SAMPLE ID	(#) - CONTAINER		RV. TYPE LABO	JHATORY	·ANAL	.1929
COMMENTS: Not sampled the to SPH							
	COMMENTS:	Not Sampl	ed dive to	5 SPH			

Client/ Facility# †	man Charles	n#20	9335 Job#:	38675	<u>6</u>	
Address: 122	25 North 4	5m J	大 Date:	5-29-02	<u> </u>	
City: _See	He WA		Sample	er: <u>BWN</u>	-	
Well ID	MW3	Well	Condition:	ok		
Well Diameter	HI SO	•	ocarbon Ø kness:	Amount Bai	Z)	(Gallons)
Total Depth	41.92 n		ume 2" = 0.17 tor (VF)	$3^* = 0.38$ $6^* = 1.50$	1.2" = 5.80 4°	= 0.66
Depth to Water		<u> </u>		olume) = Estimated Pur	ne Volume:	(02)
Purge Equipment:	Disposable Bailer Bailer Stack Suction Grundfos Other:		Sampling Equipment:	Disposable Bai Bailer Pressure Bailer Grab Sample Other:	ler	
Starting Time: Sampling Time: Purging Flow R Did well de-wa	late:	ann.	Weather Condition Water Color: Sediment Descript If yes; Time:	tion:	Odor:	(.lsp)
Time	Volume pH (gal.)		ductivity Tempe		ORP (mV)	· Alkalinity (ppm)
:		- <i> </i>				
			RATORY INFORMA	TION	IANA.	YSES
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANAL	1020
	<u> </u>					
	-					
COMMENTS:	Monitorina	Onli	7			
COMMENTS:		,				
						9/97-fieldat.fr

Client/ Facility# \text{\text{Ce}}	man Chower	n#20	9335 Job		8675	0	
Address: 12	25 North 4	5th (大 Dat	·	29-02		
City: <u>, Soc.</u>	He, WA			npler:	mN	· · · · · · · · · · · · · · · · · · ·	
Well ID	MW 04	Well	Condition:	ok			
Well Diameter	in.	•	rocarbon :kness:	•	mount Ba	17	(Gallons)
Total Depth	41.62 n.	<u> </u>		0.17	3" = 0.38		= 0.66
Depth to Water	36.86 n.	Fac	ctor (VF)	6° = 1.5	0 	12" = 5.80	
	x	VF	= X 3 (ca	se volume) = E	stimated Pur	ge Volume: _	(gal.)
Purge Equipment:	Disposable Bailer Bailer		Samplin . Equipme		osable Ba	iler	
Equipment	Stack		·	Bail Pres	er ssure Baile	 T	
	Suction Grundfos				b Sample er:		
	Other:						
Starting Time:	1400	· ·	Weather Cond	itions: <u></u>	nnny		
Sampling Time	: 1415		Water Color: 1	Clear		Odor: w	
Purging Flow R	late:	apm.	Sediment Des				
Did well de-wa	ter? <u>%0</u>		If yes; Time:		Voluii	le:	(gal.)
Time	Volume pH (gal.)		ductivity Te	mperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
		Z					·
		/	—— >				
				$\overline{}$			

		LABOI	RATORY INFOR	MATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYP	LABO			YSES
MW2-	3 VORVIKL	Y	HU	Land		COS/BTEX TPH(0)x	
2 WM	2 Amber L		1 100			ITTUDE	700
	NO PURGE	<i></i>			•		
COMMENTS:	100 101-01						
							

ddress: 17.7	mon Chowles	ish St	Date:	5-29-02	•	
ia Soot	tle, WA		Sampler:	BUN		
ity: _ x _						
Well ID	MW 5	Well Conditi	on: OK		<u>.</u>	
Vell Diameter	2 in.	Hydrocarbo Thickness:	H5 (feet)	Amount Baile (product/water):	~	(Gallons)
otal Depth	39.21 to	Volume Factor (VF)	$2^{n} = 0.17$ $6^{n} = 1$	3" = 0.38 .50 1 <u>.</u> 2	" = 5.80 ⁴ "	= 0.66
Depth to Water	31.00 ft.	<u> </u>				
	x		_ X 3 (case volume) =	Estimated Purge	Volume:	(ga].)
Purge Equipment:	Disposable Bailer Bailer Stack		Ba	sposable Bailer ailer	· r	
	Suction Grundfos		G	essure Bailer rab Sample ther:		
	Other:	<u></u>				
Starting Time:		Weath	er Conditions: _		? `	
Sampling Time:		Water	Color:	/ °	dor:	
•	te: er?		ent Description: _ 	Volume:		(gal.
	Volume pH (gal.)	Conductivity µmhos/cm	Temperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
			- /	-152		-
	/					

	<u>/</u>	LABORATOR	Y INFORMATION			
SAMPLE ID	(#) - CONTAINER	REFRIG. PRES	ERV. TYPE LA	BORATORY	ANAL	<u> </u>
		Y				
	L	led due to				

Chevron Northwest Region Analysis Request/Chain of Custody



		For Lancaster Laboratories use only
Acct. #:	10905	Sample #: 38 32757-8

SCR#:_

. Where quality is a science.								Г				naly	/ses	Req	uest	ed		_	7		
209335 Job#386	750			Т	Ma	atrix		T.				Pres	erval	ion	Code	es			_	rvative Co	
Facility #:) olto		- -				□			H		1			+	\dashv	\dashv	H = HCI N = HNO ₃ S = H ₂ SO ₄	B = Na	
Chevron PM: Brett Hunter Lead	Consultant:	veita .	45.00	<u>.</u>	۵		ျှ	Nap			1208	<u> </u>		`	_	ļ		- }	☐ J value re	porting need	ed
Consultant/Office: G-R, Inc., 6747 Sierr	a Court, Du	blin, Ca 9	400	<u> </u>	otabl	O NPDES	Oil ☐ Air ☐ Total Number of Containers	8021 🗆 8260 🗀 Naphth				ID Stended Rng.	ethod	·	quantification			- 1	☐ Must mee	t lowest dete	ection limits
Consultant Prj. Mgr.: Deanna L. Harding		na@grin		m)			5	 			X TPHG + BTEX	See 3	Ž		Tanti				Possible t	or 8260 com	
Consultant Phone #: 925-551-7555	_ Fax #:9	25-551-78	399	-	F		o r	3021		g	1		i Si						- □ Confirm N		
Sampler: Ben Nawfor				je			디를	岩	 ₩	Oxygenates	ပ္			. '	물	ļ			☐ Confirm h	ighest hit by	8260
Service Order #:N	on SAR:		اما	Composite		je j	Oil O Air O	BTEX + MTBE	8260 full scan	ő	<u> </u> ₽	X TPHD	Lead Total	УРН⁄ЕРН	NWTPH H HCID	-		+	☐ Confirm a		
Sample Identification	Date Collected	Time Collected	Grab	5	Soi:	Water		<u>a</u>	8260		×	X	Lead	VPH	\ <u>\{\}</u>				☐ Run		
TB LB	5-29-02	~	X			X	2]_		X					_	_		Comments	/ Remark	5
MW 2	+	1415	X		\perp	<u> </u>	_ 5	_ _	-		X	×	ļ	igwdap	\dashv	_	\dashv		-		
			\vdash	_	-		-	+-	+	├	├-	 	+	-	\dashv	\dashv		+	-		
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	-			\dashv	+		\dashv	╁	+-	┢	╁	-	\vdash		\dashv		+				
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		·			+		_	†							,						
Turnaround Time Requested (TAT) (please circ	le)	Relinqui	shed l	The	wk	7				5	Date 30 0		Time 242)	4	eceiv	ved b	y: 		<u> </u>	Date	Time
\$1D, TAT 72 hour 48 hour 24 hour 4 day 5 day		Relinqui	shed	by:	<u> </u>						Date		Time	F	Receiv	ed b	y:			Date	Time
Data Package Options (please circle if required)		Relinqui	shed t	by:						+	Date	‡	Time	F	Receiv	ed b	y:			Date	Time
QC Summary Type I - Full		Relinqui	shed I	by Co	mme	ercial (Carrier	:			_			F	(eceiv	/ed b	y:		7 \ \ \ \	Date	Time
Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format		UPS		FedE	<u>×</u>	<u>ر</u>	Other			_					占	H	I),	47	Binkly		Time 5/0957
Disk Other.		Tempera	ature I	Upon	Rece	eipt _	<u>_</u> (a	<u> </u>	C°						usto	dy Se	eals(1	ntact	? Yes (6) (N/	4)



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 RECEIWED

JUN 20 7000

GETTLER-KYAN INC.

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 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 ChevronTexaco

Discard: 07/20/2002

6001 Bollinger Canyon Rd L4310

TB LB Water Sample

San Ramon CA 94583

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

CAT No. 08213	Analysis Name BTEX (8021)	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
		108-88-3	N.D.	0.50	ug/l	1
00777	Toluene			0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.			
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

_		.=		
Laborato	አሜን በ	'hron	icl	0

		Haberacer,				
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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 -	1	06/10/2002 20:28	Matthew E Barton	1
	-	8015B Mod.	•			
01146	GC VOA Water Prep	SW-846 5030B	1	06/10/2002 20:28	Matthew E Barton	n.a.





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

06/10/2002 16:30

SEAT2

07003

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 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	N.D.	250. 750.	ug/l ug/l	1
08213	BTEX (8021)					
00776 00777 00778 00779	Benzene Toluene Ethylbenzene Total Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	22. 150. 190. 780.	1.0 1.0 1.0 3.0	ug/l ug/l . ug/l ug/l	5 5 5 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

CAT		•	_	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	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.

NWTPH-Dx, ECY 97-602,

Laboratory Chronicle

#=Laboratory MethodDetection Limit exceeded target detection limit N.D.=Not detected at or above the Repeting Limit.



Extraction - DRO (Waters)

6/97

Elia R Botrous



Client Name: ChevronTexaco

Group Number: 810540

Reported: 06/19/02 at 12:24 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 021610004A Diesel Range Organics Heavy Range Organics	Sample num N.D. N.D.	ber(s): 3 250. 750.	832758 ug/l ug/l	80		55-126		
Batch number: 02161A02A Benzene Toluene Ethylbenzene Total Xylenes TPH by NWTPH-Gx waters	Sample num N.D. N.D. N.D. N.D. N.D.	ber(s): 3 .5 .5 .5 1.5	832757 ug/l ug/l ug/l ug/l ug/l	100 106 103 109 92	100 107 102 107 91	80-118 82-119 81-119 82-120 76-126	1 0 1 1	30 30 30 30 30
Batch number: 02161A02C Benzene Toluene Ethylbenzene Total Xylenes TPH by NWTPH-Gx waters	Sample num N.D. N.D. N.D. N.D. N.D.	nber(s): 3 .5 .5 .5 .5 1.5	832758 ug/1 ug/1 ug/1 ug/1 ug/1	100 106 103 109 92	100 107 102 107 91	80-118 82-119 81-119 82-120 76-126	1 0 1 1	30 30 30 30 30

Sample Matrix Quality Control

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 02161A02A	Sample	number	(s): 3832757	7					
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	3		,			
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.



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





Page 2 of 2

Client Name: ChevronTexaco

Reported: 06/19/02 at 12:24 PM

Group Number: 810540

Surrogate Quality Control

	77				
Blank	85				
LCS	80	,			
Limits:	50-150	 			
Analysis 1	Name: TPH by NWTPH-Gx wate	rs			•
	per: 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 1	Name: TPH by NWTPH-Gx wate				
Analysis 1	Name: TPH by NWTPH-Gx wate ber: 02161A02C	rs			
Analysis 1	Name: TPH by NWTPH-Gx wate				
Analysis) Batch num	Name: TPH by NWTPH-Gx wate ber: 02161A02C	rs			
Analysis Batch num	Name: TPH by NWTPH-Gx wate ber: 02161A02C Trifluorotoluene-P	rs Trifluorotoluene-F			
Analysis Match num 3832758 Blank	Name: TPH by NWTPH-Gx wate ber: 02161A02C Trifluorotoluene-P	Trifluorotoluene-F			
Analysis i Batch num 3832758 Blank LCS	Name: TPH by NWTPH-Gx wate ber: 02161A02C Trifluorotoluene-P 100 101	Trifluorotoluene-F		,	
Analysis : Batch num B832758 Blank LCS LCSD	Name: TPH by NWTPH-Gx wate ber: 02161A02C Trifluorotoluene-P 100 101 101	Trifluorotoluene-F 86 86 96			
Analysis 1	Name: TPH by NWTPH-Gx wate ber: 02161A02C Trifluorotoluene-P 100 101 101 102	Trifluorotoluene-F 86 86 94 95			

*- 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



Client/Facility #:	Former Chevron #2	209335	Job Number:	386750	
Site Address:	1225 North 45th st	reet	Event Date:	9-16-02	
City:	Seattle, Washingto	on .	Sampler:	BWN	<u> </u>
Well ID	MW- 1	Well Condition	: ok		
Well Diameter	2 in.	Hydrocarbon		Amount Bailed	
Total Depth	38,35 ft.	Thickness:	Ø ft.		gal.
Depth to Water	36.71 ft.	Volume	3/4"= 0.02		0.38
		Factor (\			= 5.80
	xVF	==	x3 (case volume) = E	Estimated Purge Volume:	gal.
Purge	Disposable Bailer		Sampling	Disposable Bailer 🐧	
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump			Discrete Bailer	
	Suction Pump			Other:	
	Grundfos		1		
	Other:			•	
	600		C. , h		
Start Time (purge Sample Time/Da		eather Conditions/ Water Color		Odor: 100	
Purging Flow Ra		diment Description	`	Ouoi. 410	
Did well de-wate		Time:		gal.	
Time	Volume pH	Conductivity	Temperature	D.O. OF	RP
(2400 hr.)	(gal.)	(u mhos/cm)	(C/F)	(mg/L) (mi	V)
	- 	-/	1		
	- /	<u> </u>	/		
		LABORATORY INF	ORMATION		
SAMPLE ID	(#) CONTAINER REFRI	G. PRESERV. TYPE	E LABORATOR	Y ANALYSES	
MW-]	3 x voa vial YES		46	TPH-G/BTEX/MTSE	
MWI	2 Amber 2 tr	V	\ \tau_{	TPH(D) & W/56	
COMMENTS:	NO PVRGE	l	<u> </u>		
			 -		
Add/Renlac	red Lock:		Add/Renlaced F	Plua. Size.	

1225 North 45th str Seattle, Washingto	reet	Event Date:	9-16-02			
Scattle Washingto			Event Date: 9-16-02			
		Sampler:	BMN			
MW-2	Well Condition	: or				
2 in.	Hydrocarbon	11-	Amount Bailed			
41.62 ft.	Thickness:	142 ft.	(product/water):	Gal.		
37.19 ft.	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17			
	Factor (\		5"= 1.02 6"= 1.50			
xVF !d	 =	x3 (case volume) = E	stimated Purge Volume:	gal.		
		0				
•			· · · · · · · · · · · · · · · · · · ·	·		
			, <u> </u>			
•	· · · · ·		- /			
•			Other:			
Other:		ı	<i>/</i> .			
			/			
	/		<u>/- </u>			
	- /		Odor: _			
	,		 			
? If yes,	Time:	_ Volume:	gal. ,			
Volume	Conductivity	Zemperature	D.O.	ORP		
(gal.) pH	(u mhos/cm)	(C/F)	(mg/L)	(mV)		
	- <i>/</i>	/	- -			
			<u> </u>			
						
· /			. 	<u>.</u>		
. <i>/</i>		*	. <u>- </u>			
<u> </u>						
			2 T :			
/		LABORATORY		<u> </u>		
X 100 (10) 150	1102	 	TETT-O/DIEXWITE			
		1				
Dailed ~	2 gal SPt	t or water				
	. <u> </u>					
t	2 in. 4 .62 ft. 37.19 ft. Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other: b: gpm. Sec. re: gpm. Sec. re: gpm. pH (#) CONTAINER REFRING x voa vial YES	A	Hydrocarbon Thickness: Hydrocarbon Thickne	Hydrocarbon Hydrocarbon		

Client/Facility #:	Former Chevron #20	9335	Job Number: 386750					
Site Address:	1225 North 45th stre	et	Event Date:	9-16-02				
City:	Seattle, Washington		Sampler:	BWN				
Well ID	мw- З	Well Condition	: OK					
Well Diameter	2 in.	Hydrocarbon	·	Amount Bailed	H			
Total Depth	41.69 ft.	Thickness:	∠O ft.	(product/water):	gal.			
Depth to Water	37.21 ft.	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38			
		Factor (V	 _	5"= 1.02 6"= 1.50				
```	xVF	=	x3 (case volume) = Es	stimated Purge Volume:	gal.			
Purge	Disposable Bailer		Sampling	Disposable Bailer	$\checkmark$			
Equipment:	Stainless Steel Bailer	l.		Pressure Bailer				
i	Stack Pump			Discrete Bailer				
	Suction Pump	<del></del>	,	Other:	<del></del>			
	Grundfos	<del></del>						
1	Other:		· · · · · · · · · · · · · · · · · · ·					
Start Time (purg	e): (000 We	ather Conditions	: Sunn	7				
Sample Time/Da	1 - 1 -	Water Color		Odor:	w			
Purging Flow Ra	<del></del>	ment Description			1			
Did well de-wate	er? 100 If yes, T	ime:	_ Volume:	gal.				
Time	Volume	Conductivity	Temperature	D.O	ORP			
(2400 hr.)	(gal.)	(u mhos/cm)	(C/F)	(mg/L)	(mV)			
		/		<del>-</del>				
<del></del>		<del></del>			•			
	-	<del>,</del>	/	· <del></del>	<del> </del>			
				·	···································			
·		ABORATORY IN		/ 1 ANAI	YSES			
SAMPLE ID	(#) CONTAINER REFRIG.  3 x voa vial YES	HCL	E LABORATORY	TPH-G/BTEX/NTSE	-1363			
MW_3	2 Ambarl L	TV.	T D	TPHLDIX	W/56			
		<del>  -</del>	<u> </u>	<u>.                                    </u>				
COMMENTS:	NO PURGE							
					_			
			· · · · · · · · · · · · · · · · · · ·		<del></del>			
Add/Replac	ced Lock:	, ,	Add/Replaced P	lug:Siz	ze:			



# GETTLER-RYAN INC.

Former Chev	ormer Chevron #209335			386750	
1225 North 4	5th stree	et	Event Date:	9-16-02	
Seattle, Wasl	nington		Sampler:	BWN	
MW- 4		Well Condition:	ok		<u> </u>
<b>2</b> in.			<del></del>	Amount Bailed	
41.60 ft.		~	Ø ft.	(2)	
37.16 ft.		Volume	3/4"= 0.02		
1				5"= 1.02 6"= 1.50 12"= 5.80	
x\	/F	=>	(3 (case volume) = E	stimated Purge Volume: gal.	
				1	
•					
	Bailer	<del></del>	Equipment.	D1	
-	_				
•		· · · · · · · · · · · · · · · · · · ·	1	Other.	
•		<u>-</u>		•	
n: 930	Wea	ther Conditions:	Sunnl	,!	
	 Sedim				
		<del>-</del>	Volume:	gal.	
	рН	-			
- — <i>/.</i>		_ <del>·</del>		·	
. ——— .				<del></del>	
. <i>/</i>					
			ODMATION		
(#) CONTAINER				/ ANALYSES	
	YES	HCL	LC	TPH-G/BTEX/MTBE	
3 x voa vial					
3 x voa vial 2 Ambes L	V	L	L	TPHID) x W/36	
<del>                                     </del>		L L	L	TPHID) X W/36	
<del>                                     </del>		L	<i>L</i>	TPH(D) x w/36	
<del>                                     </del>		- V	<i>L</i>	TPH(D) x w/36	
<del>                                     </del>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<i>L</i>	TPH(D) x w/36	
<del>                                     </del>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<i>L</i>	TPHID) X W/36	
1	1225 North 4 Seattle, Wasl  MW- 4 2 in. 41 60 ft. 37.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1225 North 45th street Seattle, Washington  MW- 14 2 in. 41 60 ft. 37-16 ft.  xVF  Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:  1: 930 Weate: 945 / te: gpm. Sedim r? 170 If yes, Tir  Volume (gal.)  LA	Well Condition:    Hydrocarbon Thickness:   Hydrocarbon Thickness:   Wolume Factor (VI	Seattle, Washington   Sampler:	Seattle, Washington   Sampler:   Sampler:



Client/Facility #	Former Chevron #20	9333	Job Number: <b>386750</b>						
Site Address:	1225 North 45th stree	et	Event Date:	ent Date: 9-16-02/					
City:	Seattle, Washington		Sampler:	BWN					
Well ID	MW-5	Well Condition	: 0K-						
Well Diameter	<b>2</b> in.	Hydrocarbon		Amount Bailed					
Total Depth	39.20 ft.	Thickness:	.39 ft.		2 gal.				
Depth to Water	<del></del>	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38				
•	<del></del>	factor (\		5"= 1.02 6"= 1.50	12"= 5.80				
	xVF	=	x3 (case volume) = E	Estimated Purge Volume: _	gal.				
Purge	Disposable Bailer		Sampling	Disposable Bailer					
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer					
	Stack Pump			Discrete Bailer	,				
	Suction Pump		,	Other:					
	Grundfos								
	Other:		,						
	~~\· \\/\c	ather/Conditions	s: /						
Start Time (pur Sample Time/D Purging Flow F	Pate: / Rate: gpm. Sedin	Water Color ment Description	r:	Odor:					
Sample Time/D	Pate: / Rate: gpm. Sedin	Water Color	r:						
Sample Time/D Purging Flow F	Pate: / Rate: gpm. Sedir ter? If yes, T	Water Color ment Description	r:		ORP (mV)				
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. Sedir ter? If yes, T	Water Color nent Description ime:	r:	gal.					
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. Sedir ter? If yes, T	Water Color nent Description ime:	r:	gal.					
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. Sedir ter? If yes, T	Water Color nent Description ime:	r:	gal.					
Sample Time/D Purging Flow F Did well de-wa	Date: / Rate: gpm. Sedir ter? If yes, T	Water Color ment Description ime: Conductivity (umhos/cm)	Volume: Vernperature (C/F)	gal.  D.O. (mg/L)	(mV)				
Sample Time/Depuis Flow Flow Flow Flow Flow Flow Flow Flow	Date: / Rate: gpm. Sedir ter? If yes, T  Volume (gal.) pH  L  L  (#) CONTAINER REFRIG.	Water Color nent Description ime: Conductivity (umhos/cm)  ABORATORY IN PRESERV. TYP	Volume: Vernperature (C/F)	gal.  D.O. (mg/L)	(mV)				
Sample Time/Depty Flow Flow Flow Flow Well de-ware (2400 hr.)	Date: / Rate: gpm. Sedipter? If yes, T  Volume (gal.) pH	Water Color ment Description ime: Conductivity (umhos/cm)  ABORATORY IN	Volume: Vernperature (C/F)	gal.  D.O. (mg/L)	(mV)				
Sample Time/Depuis Flow Flow Flow Flow Flow Flow Flow Flow	Date: / Rate: gpm. Sedir ter? If yes, T  Volume (gal.) pH  L  L  (#) CONTAINER REFRIG.	Water Color nent Description ime: Conductivity (umhos/cm)  ABORATORY IN PRESERV. TYP	Volume: Vernperature (C/F)	gal.  D.O. (mg/L)	(mV)				
Sample Time/Depuis Flow Flow Flow Flow Flow Flow Flow Flow	Date: / Rate: gpm. Sedir ter? If yes, T  Volume (gal.) pH  L  L  (#) CONTAINER REFRIG.	Water Color nent Description ime: Conductivity (umhos/cm)  ABORATORY IN PRESERV. TYP	Volume: Vernperature (C/F)	gal.  D.O. (mg/L)	(mV)				

# Chevron Normwest Region Analysis Request/Chain of Custody



Where quality is a science.											A	naly	ses	Rec	ues	ted				Goup # 8	332	8D
209335 Job#	386750		-		Matri	×			_				rvat	ion	Cod	es	_	_		Preservat		
Facility #:		WA		·			i	П		$\dashv$	H	<i>¥</i>	 			$\dashv$	-	$\dashv$	$\dashv$		T = Thios B = NaOl	
Oile Address.	Consultant: D			·  -	Τ	$\dashv$		BTEX + MTBE 8021 🗆 8260 🗀 Naphth 🗀	.		_										O = Othe	
Consultant/Office: G-R, Inc., 6747 Sierra			4568		를 S	}	Jers	<del>Z</del>			8021	TPH D Silica Gel Cleanup	 		<u></u>					☐ J value reporti		
•					☐ Potable		ntair	360 [			*	Rag.	Metho		quantification		1			☐ Must meet low possible for 82		
Consultant Prj. Mgr.: Deanna L. Harding	<del></del>	na@grinc		7		]	ဂ္ပ			Ì	비	tendex ica Ge			Page 1		•	٠		8021 MTBE Conf	-	
Consultant Phone #: 925-551-7555	_ Fax #: <u>_</u>	25-551-7	899	_		1_	er o	8021		g	T	∆.≅ <b>21</b> 23	Diss.							Confirm MTBE	+ Naphth	
Sampler: Ben Newtor		<u> </u>		įį.		Air	Total Number of Containers	置	厉	Oxygenates	707	<b>P</b>			NWTPH H HCID	ŀ	ļ	-	-	☐ Confirm highe		60
Service Order #: No	n SAR:		اما	Composite	ē		Ž	<b>≥</b> 	8260 full scan	රි	Ē	Ē	Lead Total	<b>УРН/ЕРН</b>	표		İ		-		s on highe	st hit
Sample Identification	Date Collected	Time Collected	Grab	ပ္ပြုင်္က	Water	Oil	Ď_	вте	8260	<u>   </u>	겐	X	Lead	VPH	§N.						s on all hit	s
TB LB	9-16-02	•	Σ		ブ		2				X			Ŀ						Comments / R	emarks	
MW )		915	X	$\bot$	X	<u> </u>	Ś				즤	X	ļ									
MW 3.		1015	X	_	X	$\square$	5				Ž	×	<u> </u>				$\dashv$		$\vdash$			
MW 4	<del>- •</del> -	945	X		X	╁┤	5			$\dashv$	X	2	├—	H		$\vdash$			$\vdash$			
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		<del></del>	$\vdash$	+	+	+		$\vdash$		_			-	-	<u> </u>		T		$\vdash$			
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	<u> </u>	<u> </u>	Щ	$\bot$						ᆛ		Ĺ	Time	Ļ,	Ď	ived			Ļ	<u> </u>	Date	Time
Turnaround Time Requested (TAT) (please circ	le)	Relingu	ished i	Ren	ton						Date 17-4		111118 400		Kece	IAGGT		_	_		Daio	
STD. TAT 72 hour 48 hour		Relinqu				_				1	Date	1	Time		Rece	ived l	y:				Date	Time
24 nour 4 day 5 day		_			<u> </u>	_		_	_	╀.		+	7'	+	<b>-</b>	المحدث			-		Date	Time
Data Package Options (please circle if required)		Relinqu	ished l	y:				_		'	Date		Time		Kece	ived l	Jy:				Dale	THIB
QC Summary Type I - Full		Relingu	ished l	y Con	nmercia	al Can	rier:	-		_	•				Rece	ived I	oy:				Date	Time
Type VI (Raw Data) Disk / EDD  MIR (RIMOCR) Standard Format		UPS	_	FedEx	_		her_								K	2-1	<u>lle</u>	1	30	à k Olen	Q	<b>1910</b>
WIP (RWQCB) Standard Format  DiskOther.		Temper	ature (	Jpon F	Receipt	_5	50		)°						Custo	ody S	eals	Înjad	ct?	Yes N	(AIA)	
					_		_			_											0400 5	0/0/04

SCR#:



ANALYTICAL RESULTS

RECEIVE

Prepared for:

ChevronTexaco
6001 Bollinger Canyon RdL4310 Chille Harry San Ramon CA 94583

925-842-8582

Prepared by:

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

#### **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		1	Lancaster Labs Number
TB LB Water Sample			3900970
MW 1 Grab Water Sample			3900971
MW 3 Grab Water Sample	1		3900972
MW 4 Grab Water Sample			39009 <b>73</b>

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 r, Chemist/Coordinator





3900970 Lancaster Laboratories Sample No.

Collected: 09/16/2002 00:00

Account Number: 10905

Submitted: 09/18/2002 09:10 Reported: 10/02/2002 at 10:46 ChevronTexaco

Discard: 11/02/2002

6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

TB LB Water Sample

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/1	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
1	A site-specific MSD sample was was performed to demonstrate pro-					
08274	TPH by NWTPH-Gx waters		ı			
01648	TPH by NWTPH-Gx waters A site-specific MSD sample was was performed to demonstrate pr				ug/1	1

State of Washington Lab Certification No. C259

#### Laboratory Chronicle

CAT			-		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	<b>Factor</b>
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.

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



Lancaster Laboratories Sample No. 3900971

Collected: 09/16/2002 09:15

Account Number: 10905

Submitted: 09/18/2002 09:10 Reported: 10/02/2002 at 10:46

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 11/02/2002

San Ramon CA 94583

MW 1 Grab Water Sample Facility# 209335 Job# 386750

1225 N. 45th Street; Seattle, WA

45TH1

	•			As Received		
CAT	,1		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel				ı	ı
02095	Diesel Range Organics	n.a.	.N.D.	250.	ug/1	1
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
1	Site-specific QC samples were now was performed to demonstrate pro	ot submitted for ecision and acc	or the project. A curacy at a batch	LCS/LCSD 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 was performed to demonstrate pr				1.1	
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters A site-specific MSD sample was was performed to demonstrate pr	n.a. not submitted ecision and ac	N.D. for the project. curacy at a batch	50. A LCS/LCSD n level.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory	Chronicle
-	Analysis
Mathad	Trial# Date and Time

CAT				Analysis		DITUCTOR
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	<b>Pactor</b>
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	W/SIGE1 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

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 6001 Bollinger Canyon Rd L4310

ChevronTexaco

Discard: 11/02/2002 San Ramon CA 94583
MW 3 Grab Water Sample

Facility# 209335 Job# 386750

1225 N. 45th Street; Seattle, WA

#### 45TH3

	1			As Received		
CAT			As Received	Method	•	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	250.	ug/l	ı,
02096	Heavy Range Organics	n.a.	N.D.	250.	ug/l	1
	Site-specific QC samples were n	ot submitted f	or the project. A	LCS/LCSD		
	was performed to demonstrate pr					
			I			
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	_	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 pr					
08274	TPH by NWTPH-Gx waters					
01648		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 pr	ecision and a	ccuracy at a batc	h level.		

State of Washington Lab Certification No. C259

#### Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	<b>Factor</b>
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

717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. 3900973

Collected:09/16/2002 09:45

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

	•			As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	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 no	ot submitted fo	or the project. A	LCS/LCSD		
	was performed to demonstrate pro	ecision and ac	curacy at a batch	level.		•
08213	BTEX (8021)			•		
			1			
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 pr	ecision and ac	curacy at a batch	level.		
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters A site-specific MSD sample was was performed to demonstrate pr				ug/l	5

State of Washington Lab Certification No. C259

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CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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 - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	09/20/2002 16:30	Elia R Botrous	1



### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 823280

Reported: 10/02/02 at 10:47 AM

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 02261B55A	Sample n	umber(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/1	102	100	81-119	2	30
Total Xylenes	N.D.	. 6	ug/1	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 n	umber(s):	3900971-39	00973				
Benzene	N.D.	.2	ug/l	94	91	80-118	2	30
Toluene	N.D.	.2	ug/1	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 n	umber(s):	3900971-39	00973				
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

1	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max_
Batch number: 02261B55A Benzene Toluene Ethylbenzene Total Xylenes TPH by NWTPH-Gx waters	Sample 99 107 111 110 97	number	(s): 3900970 83-130 87-129 86-133 86-132 74-132	0	•		1	ı	
Batch number: 02261B55B Benzene Toluene Ethylbenzene Total Xylenes TPH by NWTPH-Gx waters	Sample 99 107 111 110 97	number	(s): 390097 83-130 87-129 86-133 86-132 74-132	1-39009	73 , ·				

#### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Gx waters

Batch number: 02261B55A

	Trifluorotoluene-P	Trifluorotoluene-F	
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.





Page 2 of 2

#### Quality Control Summary

Group Number: 823280 Client Name: ChevronTexaco

Reported: 10/02/02 at 10:47 AM

Surrogate Quality Control 57-146

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

	Trifluorotoluene-P	Trifluorotoluene-F	
3900971	109	85	<del></del>
3900972	109	84	
3900973	113	95	
Blank	110	85	•
LCSD LCSD	109	91 .	
LCSD	109	94	
MS	107	113	
Limits:	71-130	57-146	1

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:

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.



# FORMER CHEVRON SERVICE STATION #209335 Seattle, Washington

MONITORING & SAMPLING EVENT OF DECEMBER 5, 2002



# GETTLER-RYAN INC.

lient/Facility #:	Former Chevron #2	209335	Job Number:	386750	
Site Address:	1225 North 45th st	reet	Event Date:	12-5-02	
City:	Seattle, Washingto	on	Sampler:	BWN	
Well ID	MW- 1	Well Condition	n: 0K		
Well Diameter	2 in.	Hydrocarbon	Ø ft	Amount Bailed	Ø
Total Depth	38.35 ft.	Thickness:		<u> </u>	gal.
Depth to Water	37.09 ft.	Volume Factor (			
	xVF	=	_ x3 (case volume) = 1	Estimated Purge Volume:	gal.
Purge	Disposable Bailer	1	Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump		•	Discrete Bailer	
	Suction Pump		•	Other:	
	Grundfos	<del>-  </del>	•		
	Other:	<del>/</del>	•	/	
	01101	/	/		
Start Time (purg		Weather Condition Water Col	or.	Odor:	
Sample Time/D Purging Flow R	ate: / gpm. Se	Water Cole ediment Description	on:		
Sample Time/D	ate: / gpm. Se	Water Col	on:		
Sample Time/D Purging Flow R Did well de-wat	pate: / / Set ser? If yes	Water Cole ediment Descriptions, Time: Conductivity	on:	gal.	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat	ate: / gpm. Some Some Some Some Some Some Some Some	Water Cole ediment Descriptions, Time:	on: Volume:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wat	pate: / / Set ser? If yes	Water Cole ediment Descriptions, Time: Conductivity	on: Volume:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wat	pate: / / Set ser? If yes	Water Cole ediment Descriptions, Time: Conductivity	on: Volume:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wat	pate: / / Set ser? If yes	Water Cole ediment Descriptions, Time: Conductivity	on: Volume:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wat Time	pate: / / Set ser? If yes	Water Cole ediment Descriptions, Time: Conductivity	on: Volume:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wat	pate: / / Set ser? If yes	Water Cole ediment Descriptions, Time: Conductivity	Volume:	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat	rate: / Solume pH (gal.) PH	Water Cole ediment Description s, Time:  Conductivity (u mhos/om)  LABORATORY I	Volume:  Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat Time (2400 hr.)	rate: / gpm. Some ser? If yes ph	Water Cole ediment Description s, Time:  Conductivity (u mhos/om)  LABORATORY I	Volume:  Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	rate: / Solume pH (gal.) PH	Water Cole ediment Description s, Time:  Conductivity (u mhos/om)  LABORATORY I	Volume:  Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	rate: / Solume pH (gal.) PH	Water Cole ediment Description s, Time:  Conductivity (u mhos/om)  LABORATORY I	Volume:  Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	rate: / Solume pH (gal.) PH	Water Cole ediment Description s, Time:  Conductivity (u mhos/om)  LABORATORY I	Volume:  Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	date: // Solume // If yes	Water Cole ediment Description s, Time:  Conductivity (u mhos/om)  LABORATORY I	Volume:  Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)  SAMPLE ID MW-	date:	Water Cole ediment Descriptions, Time:  Conductivity (u mhos/om)  LABORATORY I RIG. PRESERV. XX ES HCL	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)

lient/Facility #:					
ite Address:	1225 North 45th str	eet	Event Date:	12-5-02	
Sity:	Seattle, Washington	n	Sampler:	BWN	
		-	14		
Well ID	<u>~-wm</u>	Well Condition:	oK.		<u> </u>
Well Diameter	2 in.	Hydrocarbon	E 11	Amount Bailed	
Total Depth	41.62 ft.	Thickness:	,59 ft.	(product/water):	J gal.
Depth to Water	37.51 ft.	Volume	3/4"= 0.02		3"= 0.38
	•	Factor (\	<u> </u>	5"= 1.02 6"= 1.50	12"= 5.80
	xVF	=	x3 (case volume) = E	Estimated Purge Volume: _	gal.
Purge	Disposable Bailer		Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump				
	Suction Pump			Other:	
	Grundfos			1	
	Other:			//	
			<del></del>		
Start Time (pur	qe): W	eather Conditions	s: /	•	
· · · · · · · · · · · · · · · · · · ·	·	Veather Conditions Water Colo		Odor:	
Sample Time/D	Pate:/	/	r:	Odor:	
Start Time (pure Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. Sec	/ Water Colo	r:		
Sample Time/D Purging Flow R Did well de-wa	Pate: / Rate: gpm. Sector: If yes,	Water Color diment Description Time:	r: n: Volume:	gal.	
Sample Time/D Purging Flow R Did well de-war	Pate: / Rate: gpm. Set ter? If yes,	Water Color diment Description Time:Conductivity	r:		ORP (mV)
Sample Time/D Purging Flow R Did well de-wa	Pate: / Rate: gpm. Set ter? If yes,	Water Color diment Description Time:	r:n:	gal.	ORP
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Purging Flow F Did well de-war	Pate: / Rate: gpm. Set ter? If yes,	Water Color diment Description Time:Conductivity	r:n:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wa	Pate: / Rate: gpm. Set ter? If yes,	Water Color diment Description Time:Conductivity	r:n:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wa Time	Pate: / Rate: gpm. Set ter? If yes,	Water Color diment Description Time:Conductivity	r:n:	gal.	ORP
Sample Time/D Purging Flow R Did well de-wa	Pate: / Rate: gpm. Set ter? If yes,	Water Color diment Description Time:	Temperature (C/F)	gal.	ORP
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Pate: / Rate: gpm. Set ter? If yes,  Volume (gal.) pH	Water Color diment Description Time: Conductivity (umhos/cm)	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Oate: / Rate: gpm. Set ter? If yes,  Volume (gal.) pH  (#) CONTAINER REFER	Water Color diment Description Time:  Conductivity (umhos/cm)  LABORATORY IN IG. PRESERV. TYP	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow F Did well de-war Time (2400 hr.)	Pate: / Rate: gpm. Set ter? If yes,  Volume (gal.) pH	Water Color diment Description Time:  Conductivity (umhos/cm)  LABORATORY IN IG. PRESERV. TYP	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Oate: / Rate: gpm. Set ter? If yes,  Volume (gal.) pH  (#) CONTAINER REFER	Water Color diment Description Time:  Conductivity (umhos/cm)  LABORATORY IN IG. PRESERV. TYP	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Oate: / Rate: gpm. Set ter? If yes,  Volume (gal.) pH  (#) CONTAINER REFER	Water Color diment Description Time:  Conductivity (umhos/cm)  LABORATORY IN IG. PRESERV. TYP	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Oate: / Rate: gpm. Set. Rer? If yes, Volume (gal.) pH   (#) CONTAINER REFER	Water Color diment Description Time:  Conductivity (umhos/cm)  LABORATORY IN G. PRESERV. TYPE B. HCL	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow R Did well de-war Time (2400 hr.)	Oate: / Rate: gpm. Set ter? If yes,  Volume (gal.) pH  (#) CONTAINER REFER	Water Color diment Description Time:  Conductivity (umhos/cm)  LABORATORY IN G. PRESERV. TYPE B. HCL	Temperature (C/F)	D.O. (mg/L)	ORP (mV)



lient/Facility#:	Former Chevror	1 #209335	Job Number:	386750	
ite Address:	1225 North 45th	street	Event Date:	12-5-02	
city:	Seattle, Washin	gton	Sampler:	Bud	_
Vell ID	mw-3	Weil Cond	dition: $\partial \mathcal{K}$		
Well Diameter	2 in.	Hydrocart		Amount Bailed	N
Total Depth	41.69 ft.	Thickness	<b>~</b> /		<i>S</i> gal
Depth to Water	37.58 ft.	Īv.	olume 3/4"= 0.02	2 1"= 0.04 2"= 0.17	3"= 0.38
·			actor (VF) 4*= 0.66	5"= 1.02 6"= 1.50	12"= 5.80
	xVF _	=_	x3 (case volume) =	Estimated Purge Volume:	gal.
_			Compling	Discount Della	
Purge Equipment:	Disposable Bailer		Sampling Equipment:	Disposable Bailer Pressure Bailer	
Equipment.	Stanless Steel Bail	er	<u> </u>	Discrete Bailer	<u> </u>
	Stack Pump Suction Pump		<b>—</b> /	Other:	
	Grundfos		<del>-/</del>		
,	· Other:		<u>/</u>	1	
	· · · · · · · · · · · · · · · · · · ·				
Start Time (pur	ne):	Weather Cond	ditions:		
Start Time (pur		Weather Cond Water	ditions:	Odor:	
Start Time (pur Sample Time/D Purging Flow F	)ate:/	/	Color:	Odor:	
Sample Time/D	Pate: / Rate: gpm.	/ Water	Color:	Odor:	
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:	Color: ription: Volume:	gal.	ORP
Sample Time/D Purging Flow F	Pate: / Rate: gpm. ter? If	Water Sediment Desc	Color: Volume: ivity Temperature	gal.	
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:  Conduct	Color: Volume: ivity Temperature	gal.	ORP
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:  Conduct	Color: Volume: ivity Temperature	gal.	ORP
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:  Conduct	Color: Volume: ivity Temperature	gal.	ORP
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:  Conduct	Color: Volume: ivity Temperature	gal.	ORP
Sample Time/E Purging Flow F Did well de-wa Time	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:  Conduct	Color: Volume: ivity Temperature	gal.	ORP
Sample Time/D Purging Flow F Did well de-wa	Pate: / Rate: gpm. ter? If	Water Sediment Desc f yes, Time:   Conduct (u mhos/	Color: ription: Volume: (C/F)	gal.	ORP
Sample Time/D Purging Flow F Did well de-wa	Volume (gal.)	Water Sediment Desc f yes, Time:   Conduct (u mhos/	Color: ription: Volume: (C/F)  ORY INFORMATION	gal.  D.O. (mg/L)	ORP
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.)	Volume (gal.)	Water Sediment Desc f yes, Time:  Conduct (u mhos/	Color: ription: Volume: (C/F)  ORY INFORMATION V. TYPE LABORATO	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.)	Volume (gal.)  (#) CONTAINER	Water Sediment Desc f yes, Time:  PH Conduct (u mhos/	Color: ription: Volume: (C/F)  ORY INFORMATION V. TYPE LABORATO	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.)	Volume (gal.)  (#) CONTAINER	Water Sediment Desc f yes, Time:  PH Conduct (u mhos/	Color: ription: Volume: (C/F)  ORY INFORMATION V. TYPE LABORATO	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.)	Volume (gal.)  (#) CONTAINER	Water Sediment Desc f yes, Time:  PH Conduct (u mhos/	Color: ription: Volume: (C/F)  ORY INFORMATION V. TYPE LABORATO	gal.  D.O. (mg/L)	ORP (mV)
Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.)	Volume (gal.)  (#) CONTAINER x voa vial	Water Sediment Desc  f yes, Time:  PH Conduct (u mhos/	Color: ription: Volume: (C/F)  ORY INFORMATION V. TYPE LABORATO	gal.  D.O. (mg/L)	ORP (mV)



# GETTLER-RYAN INC.

Client/Facility #:	Former Chevron #20	9335	Job Number:	386750	
Site Address:	1225 North 45th stre	et	Event Date:	12-5-02	
City:	Seattle, Washington		Sampler:	BMN	
Well ID Well Diameter Total Depth Depth to Water  Purge Equipment:	MW-4  2 in.  41.60 ft.  37.53 ft.  xVF  Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:	Well Condition Hydrocarbon Thickness:  Volume Factor (V	ft. 3/4"= 0.02 4"= 0.66	Amount Bailed (product/water):  1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50  stimated Purge Volume:  Disposable Bailer Pressure Bailer Discrete Bailer Other:	<i>\( \)</i>
Start Time (purg Sample Time/D Purging Flow R Did well de-wate Time (2400 hr.)	ate: 115 / gpm. Sedir	ather Conditions Water Color ment Description ime: Conductivity (u mhos/cm)	: clear	/ Odor: y	ORP (mV)
SAMPLE ID	(#) CONTAINER   REFRIG.	ABORATORY IN		v I	woro
MW- H	73 x voa vial YES	PRESERV. TYP	E LABORATOR		1959
MW H	2 Amber 2	ų V	Liniusici	7PH(0) > W/50	6
COMMENTS:	NO PURGE				
Add/Repla	ced Lock:		Add/Replaced P	Jina. Size	



ient/Facility #:	Former Chevron #20		Job Number:	386750				
te Address:	1225 North 45th stre	eet	Event Date:	12-5-02				
ty:	Seattle, Washington	1	Sampler:	BWN	BWW			
			.1,					
/ell ID	<u>mw- 5</u>	Well Condition	: ok					
/ell Diameter	2 in.	Hydrocarbon	,36 ft.	Amount Bailed	<b>a</b> .			
otal Depth	39.2) ft.	Thickness:	• 56 ft.	(product/water):	<u>0</u> - gal.			
epth to Water	38.42 ft.	Volume Factor (						
		<u></u>		Estimated Purge Volume:				
	xVF	<u> </u>	_ x3 (case volume) = t	Estimated Purge Volume.	yai.			
Purge	Disposable Bailer		g Sampling .	Disposable Bailer	<u> </u>			
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer				
	Stack Pump			Discrete Bailer				
4	Suction Pump			Other:	<u> </u>			
	Grundfos							
	Other:	/						
		<del>/</del>		<del>/</del>				
		. /	· · · · /					
Start Time (purç	ge): W	eather Condition	ns:	·				
		eather Condition Water Colo		Odor:				
Sample Time/D Purging Flow R	pate: / sate: gpm. Sec	/ Water Cold diment Description	or:					
Start Time (purg Sample Time/D Purging Flow R Did well de-wat	pate: / sate: gpm. Sec	/ Water Cold	or:					
Sample Time/D Purging Flow R	pate: / Secondary Secondar	/ Water Cold diment Description	or:	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat	pate: / Sector / Sect	Water Coldinent Description Time:	on: Volume:	gal.				
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldinent Description Time: Conductivity	or:	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldinent Description Time: Conductivity	or:	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldinent Description Time: Conductivity	or:	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldinent Description Time: Conductivity	or:	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldinent Description Time: Conductivity	or:	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldinent Description Time: Conductivity	Temperature (C/F)	gal.	ORP			
Sample Time/D Purging Flow R Did well de-wat Time	pate: / Sector / Sect	Water Coldiment Description Time: Conductivity (umhos/cm)  LABORATORY 1	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)			
Sample Time/D Purging Flow R Did well de-wat Time (2400 hr.)	Pate: / Section of the section of th	Water Coldiment Description Time:  Conductivity (u mhos/cm)  LABORATORY 1	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)			
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	Pate: / Section of the section of th	Water Coldiment Description Time:  Conductivity (u mhos/cm)  LABORATORY 1	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)			
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	Pate: / Section of the section of th	Water Coldiment Description Time:  Conductivity (u mhos/cm)  LABORATORY 1	Temperature (C/F)	gal.  D.O. (mg/L)	ORP (mV)			
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	Pate: / Section of the section of th	Water Coldiment Description Time:  Conductivity (u mhos/cm)  LABORATORY 1  HCL	Temperature (C/F)  NFORMATION  (PE LABORATO	gal.  D.O. (mg/L)	ORP (mV)			
Sample Time/D Purging Flow R Did well de-wat  Time (2400 hr.)	Pate: John Section of	Water Coldiment Description Time:  Conductivity (u mhos/cm)  LABORATORY 1  HCL	Temperature (C/F)  NFORMATION  (PE LABORATO	gal.  D.O. (mg/L)	ORP (mV)			

# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  Sample #: 375 531 - 32 SCR#:	
Acct. #: 10 (00 Sample #: _5 : 5 : 5 )	

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Court, Dublin	ı, Ca 94	<u>568</u>		otable PDE	П	taine	8			322	Rng. Cleanu	ethod		fication (	İ	1		☐ Must	meet lo	west detec	tion limits
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Fax #: <u>925</u> -	<u>551-789</u>	9			1	er of	8021		S	181		Diss.			1	1					nalene
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	onsultant: Delfi Court, Dublir (Deanna) Fax #: 925-  n SAR:  Date Collected 12-5-0-	ATTLE, WA  onsultant: Delta  Court, Dublin, Ca 94  (Deanna@grinc.o  Fax #: 925-551-789  n SAR:  Date Collected J2-5-0  J1\5  Relinquis  Relinquis  Relinquis  UPS	ATTLE, WA onsultant: Delta Court, Dublin, Ca 94568 (Deanna@grinc.com) Fax #: 925-551-7899  SAR: Time Collected Collected Collected Collected I/2-5-02 X I/1/5 X  Relinquished b Relinquished b Relinquished b Relinquished b	Court, Dublin, Ca 94568 (Deanna@grinc.com)  Fax #:925-551-7899    SAR:	ATTLE, WA  onsultant: Delta  Court, Dublin, Ca 94568 (Deanna@grinc.com)  Fax #: 925-551-7899  n SAR:  Date Collected Collected 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:  Relinguished by:	ATTLE, WA  consultant: Delta  Court, Dublin, Ca 94568 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#### ANALYTICAL RESULTS

Prepared for:

RECENVED ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

DEC 2 7 2007 -

925-842-8582

Prepared by:

GETILEK-KYAN INC. GENERAL CONTRACTOR

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

#### **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

I 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,



3956531 Lancaster Laboratories Sample No.

Collected:12/05/2002 00:00

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 Account Number: 10905

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	٠

CAT			_	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	<b>Factor</b>
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.

717-656-2300 Fax: 717-656-2681



3956532 Lancaster Laboratories Sample No.

Collected: 12/05/2002 11:15

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 02096	Diesel Range Organics Heavy Range Organics Site-specific QC samples were no was performed to demonstrate pro	n.a. n.a. ot submitted f ecision and ac	N.D. N.D. or the project. A curacy at a batch	250. 250. LCS/LCSD level.	ug/l ug/l	1
08213	BTEX (8021)					
00776 00777 00778 00779	Benzene Toluene Ethylbenzene Total Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	73. 400. 540. 1,500.	1.0 1.0 1.0 3.0	ug/l ug/l ug/l ug/l	5 5 5
08274 01648	TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters	n.a.	14,000.	240.	ug/l	5

State of Washington Lab Certification No. C259

Υ.	ahar-	+0237	Chron	icle
	2 DOT 2	IT CIT V	CHLOL	

CAT		-		Analysis	·	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water)	NWTPH-Dx, ECY 97- 602 (modified)	1	12/11/2002 20:07	Devin M Lahr	1
00017	w/SiGel BTEX (8021)	SW-846 8021B	1	12/11/2002 14:59	Melissa D Mann	5
08213	· · · · · · · · · · · · · · · · · · ·	TPH by NWTPH-Gx -	1	12/11/2002 14:59	Melissa D Mann	5
08274	TPH by NWTPH-Gx waters	8015B Mod.	-	12/11/2002 14:59	Melissa D Mann	n.a.
01146	GC VOA Water Prep	SW-846 5030B	_		JoElla L Rice	1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	12/10/2002 17:35	JOETTA E RICE	*

717-656-2300 Fax: 717-656-2681



#### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 833773

Reported: 12/20/02 at 06:15 PM

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 02337A55B	Sample n	umber(s):	3956531-39					
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/1	101		82-120		
TPH by NWTPH-Gx waters	N.D.	.048	mg/l	75	85	74-116	12	30
Batch number: 023440012A	Sample r	number(s):						
Diesel_Range_Organics	N.D.	.08	mg/1	66	75	55-126	12	20
Heavy Range Organics	N.D.	.1	mg/l				,	

#### Sample Matrix Quality Control

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	<u>MAX</u>	Conc	Conc	RPD	<u>Max</u>
Batch number: 02337A55B	Sample	number	(s): 3956531	-39565	32				
Benzene	96 -	101	83-130	5	30				
Toluene	100	105	87-129	4	30				
Ethvlbenzene	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.





Page 2 of 2

# 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.

