

March 23, 2007 Job #387100

Mr. Brett Hunter Chevron Environmental Management Company P.O. Box 6012, Room K2252 San Ramon, CA 94583

RE: Event of January 15, 2007 Groundwater Monitoring & Sampling Report Former Chevron Service Station #305192 9816 271<sup>st</sup> Street Northwest Stanwood, Washington

Dear Mr. Hunter:

This report documents the groundwater monitoring and sampling event 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 not present in any wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

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. Purge water was treated by filtering the water through granular activated carbon and was subsequently discharged. 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, Wash; Deanna L. Harding Project Coordinator Hydrogeologis 829 ensed Robert A. Lauritzen Senior Geologist, L.G. No. 829 Potentiometric Map - January 15, 2007 Figure 1: Groundwater Monitoring Data and Analytical Results Table 1: Groundwater Analytical Results Table 2: Field Measurements Table 3: Standard Operating Procedure - Groundwater Sampling Attachments: Field Data Sheets Chain of Custody Document and Laboratory Analytical Reports

6747 Sierra Court, Suite J • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888 3140 Gold Camp Drive, Suite 170 • Rancho Cordova, CA 95670 • (916) 631-1300 • Fax (916) 631-1317 1364 N. McDowell Blvd., Suite B2 • Petaluma, CA 94954 • (707) 789-3255 • Fax (707) 789-3218



FILE NAME: P:\Enviro\Chevron\305192\Q07-305192.dwg | Loyout Tab: Pot1

# Table 1 Groundwater Monitoring Data and Analytical Results Former Chevron Service Station #305192

9816 271st Street Northwest

Stanwood.	Washington
Stanwood,	wushington

						Sta	anwood, Wash						
WELL ID	<i>l</i>	TOC*	DTW	GWE	TPH-D	ТРН-О	TPH-G	B	Т	E	X	MTBE	D. LEAD
DATE		(ft.)	(ft.)	(fi.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-1													
04/10/06		98.32	1.81	96.51									
05/03/06		98.32			310 <sup>1</sup>	120 <sup>1</sup>	<240	<2.5	<2.5	4.7	11	<13	<0.87
03/03/06	PER	98.32 98.32	2.96	95.36	260 <sup>1</sup>	330 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	
	PER	98.32 98.32	2.55	95.77	150 <sup>1</sup>	<100 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	
10/10/06	PER PER	98.32 98.32	1.64	96.68	<160 <sup>1</sup>	<200 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	
01/15/07	<b>FER</b>	90.32	1.04	70.00					·		-		
MW-2									• .				
04/10/06		99.58	2.29	97.29						'			
05/03/06		99.58			1,400 <sup>1</sup>	560'	<240	13 -	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	99.58	2.98	96.60	2,000 <sup>1</sup>	1,800 <sup>1</sup>	220	20 -	<0.5	<0.5	1.6	<2.5	
10/10/06	PER	99.58	3.64	95.94	1,400 <sup>1</sup>	790 <sup>1</sup>	<240	16	<2.5	<2.5	<7.5	<13	
01/15/07	PER	99.58	2.08	97.50	810 <sup>1</sup>	270 <sup>1</sup>	<240	9.3	<2.5	<2.5	<7.5	<13	
MW-3		00.16	0.40	98.76									
04/10/06		99.16		98.70 	580 <sup>1</sup>	240 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87
05/03/06		99.16		96.55	350 <sup>1</sup>	380 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	
08/02/06	PER	99.16	2.61	96.33 96.41	310 <sup>1</sup>	140 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	
10/10/06	PER	99.16	2.75	96.41 98.66	250 <sup>1</sup>	<100 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	
01/15/07	PER	99.16	0.50		250								
MW-4													
04/10/06		100.00	2.08	97.92		,		·				 <13	<0.87
05/03/06		100.00			7,900 <sup>1</sup>	<1,000 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<2.5	-0.07
08/02/06	PER	99.16	3.57	95.59	7,300 <sup>1</sup>	<1,000 <sup>1</sup>	73	<0.5	<0.5	<0.5	2.8	<2.5	
10/10/06	PER	99.16	4.28	94.88	7,900 <sup>1</sup>	2,200 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5		
01/15/07	PER	99.16	2.98	96.18	8,300 <sup>1</sup>	3,000 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	
TRIP BL	ANK												
	MIN												
QA 05/03/06			· · · · ·				<48	<0.5	< 0.5	<0.5	<1.5	<2.5	
05/03/06					. <b></b>		<48	<0.5	<0.5	<0.5	<1.5	<2.5	·
00/02/00							:		•		· .		
							•					As	of 01/15/07

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# Table 1Groundwater Monitoring Data and Analytical ResultsFormer Chevron Service Station #305192

9816 271st Street Northwest

Stanwood, Washington

WELL 1D/TOC*DTWGWETPH-DTPH-OTPH-GBTEDATE(ft.)(ft.)(ft.)(ppb)(ppb)(ppb)(ppb)(ppb)												
WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (fi.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	В (ppb)	Т (pph)	E (ppb)	X (ppb)	М.Т.В.Е. <i>(ppb)</i>	D. LEAD (ppb)
<b>QA (cont)</b> 10/10/06			- <b>-</b>			<48	<0.5	<0.5	<0.5	<1.5	<2.5	
01/15/07			· ·			<48	<0.5	<0.5	<0.5	<1.5	<2.5	

ត		TPH-D	TPH-O	TPH-G	B	Т	E	X	MTBE	D. LEAD
	The I I I I and the Demonstruct I imited		250	48	0.5	0.5	0.5	1.5	2.5	0.001
	Standard Laboratory Reporting Limits:			800/1.000	5	1.000	700	1.000	20	
	MTCA Method A Cleanup Levels:		500	800/1,000						EPA 7421
	Current Method:	NWTPH-D	+ Extended	NWTPH-G and EPA 8021B						

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As of 01/15/07

Stanwood, Washington

#### **EXPLANATIONS:**

TOC = Top of Casing (ft.) = Feet DTW = Depth to Water GWE = Groundwater Elevation TPH-D = Total Petroleum Hydrocarbons as Diesel TPH-O = Total Petroleum Hydrocarbons as Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline

\* TOC elevations are expressed in feet relative to an arbitrary datum.

TPH-D and TPH-O with silica gel cleanup.

B = Benzene T = Toluene E = Ethylbenzene X = Xylenes MTBE = Methyl tertiary butyl ether D. LEAD = Dissolved Lead (ppb) = Parts per billion -- = Not Measured/Not Analyzed PER = Peristaltic Pump used for Purging QA = Quality Assurance/Trip Blank MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

As of 01/15/07

### Table 2 **Groundwater Analytical Results** Former Chevron Service Station #305192

9816 271st Street Northwest

	,		S		ington	· · ·		
WELL ID	DATE	ETHANOL	тва	мтве	DIPE	ETBE	таме	FULL SCAN EPA 8260 (ppb)
MW-4	05/03/06	<500	<50	<5	<5	<5	<5	· <5 - <60

4

### EXPLANATIONS:

TBA = Tertiary butyl alcohol MTBE = Methyl tertiary butyl ether DIPE = Di-isopropyl ether ETBE = Ethyl tertiary butyl ether TAME = Tertiary amyl methyl ether (ppb) = Parts per billion

#### ANALYTICAL METHOD:

### EPA Method 8260 for Oxygenate Compounds

Stanwood, Washington WELL DATE Time pH Conductivity Temperature Turbidity											
WELL ID	DATE	Time . (2400 hr.)	pH	(µmhos/cm)	(°C/F°)	(NTU)					
MW-1	08/02/06	1055	6.72	401	15.4/	93					
	01/15/07	1140	6.79	412	12.0/						
		1144	6.72	408	11.8/						
		1149	6.68	403	11.7/						
MW-2	08/02/06	1017	6.49	430	15.2/	371					
-		1025	6.47	421	15.1/	78					
	01/15/07	1106	6.82	404	11.8/						
		1111	6.76	398	11.7/						
		1116	6.75	393	11.6/						
MW-3	08/02/06	957	6.56	412	15.5/	83					
	01/15/07	1041	6.70	407	11.9/						
		1046	6.65	401	11.8/	·					
		1051	6.62	397	11.7/						
MW-4	08/02/06	920	6.76	433	15.6/	176					
		926	6.73	429	15.5/	72					
	01/15/07	958	6.77	402	11.9/						
		1002	6.70	394	11.8/						
		1007	6.63	391	11.7/						

#### EXPLANATIONS:

pH = Potential Hydrogen Ions (μmhos/cm) = Micromhos per cubic centimeter (°C/F°) = Degrees Celsius/ Fahrenheit (NTU) = Nephelometric Turbidity Unit -- = Not Measured

### 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.

# **GETTLER - RYAN INC.** Well Monitoring/sampling Field data sheet

Client/Facility #: Site Address: City:	Chevron #305192 9816 271St Stree Stanwood,WA		Job Number: Event Date: Sampler:	<u> -15-</u> BenU	v. Newtrin
Well ID Well Diameter Total Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump	MW - 1 1.5 in. 14.08 ft. 1.64 ft. 12.144 XVF	Fa 1 =	Diume     3/4"= 0.02       actor (VF)     4"= 0.66	5"= 1.02 6"= 1.50 = Estimated Purge Volume Time Started: Time Completed: Depth to Product: Hydrocarbon Thickn Visual Confirmation	3"= 0.38 12"= 5.80 <u>e: 3 - 5 gal.</u> (2400 hrs) (2400 hrs) ft ft ess:ft Description:
Suction Pump Grundfos Other:PCC	stattic			Skimmer / Absorber Amt Removed from Amt Removed from Water Removed: Product Transferred	Skimmer: gai Weil: gai
Start Time (pur Sample Time/I Purging Flow F Did well de-wa	Date: 1158 / 1- Rate:gpm.	Weather Con 15 Water Sediment Desc If yes, Time:	r Color:C		: <u>no</u>
Time (2400 hr.)	Volume	pH Conduc		e D.O. (mg/L)	ORP (mV)
1140 1144 1149	<u> </u>	79 417 72 401 6-68 40	31.8		

			BORATORY INFO	LABORATORY	ANALYSES
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TIPE		
	3 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX/MTBE(8021)
NW - 1	2 x voa vial		HCL	LANCASTER	NWTPH-Dx w/sgc
MW-1	Z X DIRECTO				
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### WELL MONITORING/SAMPLING FIELD DATA SHEET

Site Address: 91	hevron #305192 816 271St Street Nw tanwood,WA	Job Number: Event Date: Sampler:	387100 1-15-07 (inclusive) Ben (1) Newton
Well ID Well Diameter Total Depth Depth to Water Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:Pcc	Sampling Equipme Disposable Bailer Pressure Bailer Discrete Bailer	VF) 4"= 0.66 x3 (case volume) = 1	Well Condition:         1"= 0.04       2"= 0.17       3"= 0.38         5"= 1.02       6"= 1.50       12"= 5.80         Estimated Purge Volume:
Start Time (purge): Sample Time/Date Purging Flow Rate Did well de-water Time (2400 hr.)	e: <u>1)2511-15</u> Water Colle:gpm. Sediment Description	or:il.ca on:	0dor: <u>M0</u>

			BORATORY INFO	KINATION	ANALYSES
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	
MW - 2-	<u> </u>	YES	HCL	LANCASTER	NWTPH-Gx/BTEX/MTBE(8021)
	x ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
				·`	
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		NONITORING/SAMPLING	-
Client/Facility #: Site Address: City:		Job Number: 387100	nclusive)
Well ID Well Diameter Total Depth Depth to Water	$\frac{MW - 3}{1.5 \text{ M}} \qquad \text{Date Mo} \\ \hline 1.5 \text{ M} & \text{in.} \\ \hline 13.65 \text{ ft.} \\ \hline 0.50 \text{ ft.} \\ \end{bmatrix}$	Monitored: $1-15$ Well Condition: $0K$ Volume $3/4"=0.02$ $1"=0.04$ $2"=0.17$ $3"=0.38$ Factor (VF) $4"=0.66$ $5"=1.02$ $6"=1.50$ $12"=5.80$	

Depth to Water	<u>0.50 ft.</u> 13:15 x	NF	= 1.3_x	3 (case volume) = E	stimated Purge Volum	e: gal.	· · ·
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:	touttic	Sar Dis Pre	npling Equipment: posable Bailer ssure Bailer crete Bailer her:PGCIS	<u>, XIR</u>	Time Started: Time Completed: Depth to Product: Depth to Water Hydrocarbon Thickn Visual Confirmation Skimmer / Absorbar Amt Removed from Amt Removed from Water Removed: Product Transferred	(24 (2 	gal
Start Time (purge): Sample Time/Date: Purging Flow Rate: Did well de-water?		<u>I-B</u> Sedim	her Conditions: Water Color: ent Description: ne:		Out.	. <u>ho</u>	· · · ·
Time (2400 hr.)	Volume (gal.)	рН	Conductivity (umhos/cm)	Temperature (C/F/	D.O. (mg/L.)	ORP (mV)	
1041 1046 1051	1.3 2-6 -4	<u>6.70</u> <u>6.65</u> <u>6.62</u>	407 401 397	11.9 1 <b>1</b> .8 11.7			- - -

		LA	BORATORY INFO	RMATION	ANALYSES
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	
7	3 x voa via		HCL		NWTPH-Gx/BTEX/MTBE(8021)
	2 x ambers		HCL	LANCASTER	NWTPH-Dx w/sgc
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COMMENTS:

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Depth to Water

Add/Replaced Plug:

Size:\_



# WELL MONITORING/SAMPLING FIELD DATA SHEET

	Chevron_#305192	2	Jo	b Number:	387100	·	
Client/Facility #:				vent Date:	1-15-0	7	(inclusive)
Site Address:	9816 271St Stree				1220 ill	Newhon	
City:	Stanwood,WA		Sa	ampler:		.0- (0/0	
				-15	Well Conditio	n: OK	
Well ID	<b>MW</b> - 4	Date N	Monitored: <u>1</u>	<u> </u>	- Well Conditio	n <i>I</i> _	
Well Diameter	1,5 🕊 in.		Volume	3/4"= 0.02	1"= 0.04 2"= 0		
Total Depth	13.83 ft.		Factor (VF)	4"= 0.66	5"= 1.02 6"= 1	.50 12"= 5.80	J
Depth to Water	20 -	,	· · ·			2	-1 <sup>-</sup>
Deptil to Mater	10.85 ×V	<u>، ا</u>	_=x	3 (case volume) :	Estimated Purge Vol		
		-			Time Started:		(2400 hrs) (2400 hrs)
Purge Equipment:		•	bling Equipment:		Time Completed		ft
Disposable Bailer	·		sable Bailer		Depth to Water:_		ft
Stainless Steel Bail	er	Press	sure Bailer		<ul> <li>Hydrocarbon Thi</li> <li>Visual Confirmat</li> </ul>	ckness:	ft
Stack Pump		Other	ete Bailer r:	altic		$\mathbf{N}$ .	
Suction Pump					<ul> <li>Skimmer / Absor Amt Removed fp</li> </ul>	bant Sock (circle or	ne) gal
Grundfos Other:	Eistalyz		-		Amt Removed to Amt Removed to	om Well:	gal
Outen	·····				Water Removed	·	` [
	•				Product Transfe	rred to:	
· · · · · · · · · · · · · · · · · · ·				Clou			
Start Time (pu	rge): 955	Weath	er Conditions:			tor:_1^∂	
Sample Time/		15	Water Color:	<u>il.co</u>	<u>u                                    </u>		-
Purging Flow I		Sedimer	nt Description:	·			
Did well de-wa	• · ·	If yes, Time	e:	Volume:	gal.		,
			Conductivity	Temperature	D.O.	ORP	
Time	Volume	рН	(umhos/cm)	(C/F)	(mg/L)	(Wm)	
(2400 hr.	.) (gal.)						<b></b>
- 95	z	6.77	402	11.9			
100		6.70	394	11.8	·		
100		6,63	391				
							<u>`</u>
		LAE REFRIG.	BORATORY INFO	LABORAT	DRY	ANALYSES	
SAMPLE ID	(#) CONTAINER					TEX/MTBE(8021)	
- MW -	3 x voa vial	YES	HCL	LANCAST			
4-	2 x ambers	YES	HCL	LANCAST			
		<u>·</u>		╂━━━━━			
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COMMENTS:

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# Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories				Acct. #: ]	<u>  </u>	Ha	) s	Fe ample	or Lar #:	196	r Labi	orato &/	ries µ	se oni	yscr#:		
Where quality is a science	••••		· .		1			A	naly	es R	que	sted			(proup#/	022	227
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acility #: SS#305192-OML G-R#387							1_	Ţ₿	¥.	-+-			┝			r = Thiosu 3 = NaOH	
ite Address: 9816 271st Street NW, ST		<u>.</u>		·		□ €						ļ				<b>0</b> = Other	
hevron PM;BHLead (	Consultant: SAI	CPC			ę	2 2			_						J value reportin	g nåeded	
onsultant/Office: G-R, Inc., 6747 Sierra Co	urt, Suite J, Dub	<u>din, Ca. 945</u> 6	a light	NPDES	Containers		{		Reg. Cleanup	Method	🗌 quantification				Must meet low possible for 82		
onsultant Prj. Mgr.: Deanna L. Harding (de				Z I I	S.	8			a Get (		Ten T	l			8021 MTBE Conf		
onsultant Phone # 925-551-7555		5-551-7899_	J ↾	·	er of	8021 🕅 8260 🗌 Naphth	120				1					+ Naphtha	
ampler: <u>Ben Newton</u>				Ar A	Ĕ	置いる	Onypenates	TPHG	OHAL	_	. IP				Confirm highes		50
ervice Order #:N	on SAR:	Time . a			Total Number	BTEX + MTBE 8260 fuil scen	ð	튄	₽ V	Lead Total Violuiciou	NWTPH H HCID				🖬 Run oxy	s on highe	st hit
ample Identification	Date Collected Co	Time . E	Soil					X	1	Lead	ž				Runoxy		<b>.</b>
QA	1-15-07 -		$\Box D$		と	X		X					·		Comments / R	emarks	
MW-1		58 X			5	X		X	X			<u> </u>			·	. •	
MW-2		25 X	-		5	X		X	X	<u> </u>	+		· ·	┞╌┠	<b>-1</b> .		
MW-3		754 7			5	X	-	X	X	┢─┼			–	<b>├  </b>	<u> </u>	• .	I.
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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

:

3468 Rev. 8/6/01



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### ANALYTICAL RESULTS

#### Prepared for:

Chevron 6001 Bollinger Canyon Road L4310 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 1022255. Samples arrived at the laboratory on Friday, January 19, 2007. The PO# for this group is 0015011911 and the release number is HUNTER.

Client Description QA Water Sample MW-1 Grab Water Sample MW-2 Grab Water Sample MW-3 Grab Water Sample MW-4 Grab Water Sample Lancaster Labs Number 4962281 4962282 4962283 4962284 4962285

ELECTRONIC COPY TO SAIC c/o Gettler-Ryan

Attn: Cheryl Hansen



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Questions? Contact your Client Services Representative Lynn M Frederiksen at (717) 656-2300

Respectfully Submitted,

Milissa a McSermott

Melissa A. McDermott Senior Chemist



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Page 1 of 1

### Lancaster Laboratories Sample No. WW 4962281

QA Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Account Number: 11260

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

271-Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. N.D. N.D. N.D.	0.5 0.5 0.5 1.5 2.5	ug/l ug/l ug/l ug/l ug/l	1 1 1 1
08274 01648	TPH by NWTPH-Gx waters TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laboratory	Chro	nićle Analysis		Dilution
CAT No. 02159 08274 01146	Analysis Name BTEX, MTBE TPH by NWTPH-Gx waters GC VOA Water Prep	Method SW-846 8021B ECY 97-602 NWTPH-Gx modified SW-846 5030B	1	Date and Time 01/20/2007 21:30 01/20/2007 21:30 01/20/2007 21:30	Analyst Martha L Seidel Martha L Seidel Martha L Seidel	Factor 1 1 1



271-1

Lancaster Laboratories

# **Analysis Report**

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Page 1 of 2

## Lancaster Laboratories Sample No. WW 4962282

MW-1 Grab Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007 11:58 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Account Number: 11260

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

As Received Dilution Method As Received CAT Units Factor Detection Result CAS Number Analysis Name No. Limit BTEX, MTBE 02159 5 ug/l . 2.5 N.D. 71-43-2 02161 Benzene 5 ug/l 2.5 N.D. 108-88-3 Toluene 02164 5 ug/l 2.5 N.D. 100-41-4 Ethylbenzene 5 02166 ug/l 7.5 1330-20-7 N.D. Total Xylenes 02171 ug/l 5 13. N.D. 1634-04-4 Methyl tert-Butyl Ether 02172 Due to excessive foaming of the sample, normal reporting limits were not attained. TPH by NWTPH-Dx(water) w/SiGel 02211 1 ug/l 160. N.D. n.a. Diesel Range Organics 02095 1 ug/l 200. N.D. n.a. Heavy Range Organics 02096 Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly. 08274 TPH by NWTPH-Gx waters 5 ug/l 240. N.D. TPH by NWTPH-Gx waters n.a. 01648 Due to excessive foaming of the sample, normal reporting limits were not attained.

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laboratory	Chro	nicle Analysis	:	Dilution
CAT No. 02159	Analysis Name BTEX, MTBE	Method SW-846 8021B ECY 97-602 NWTPH-Dx	Trial# 1 1	·	Analyst Martha L Seidel Sarah M Snyder	Factor 5 1
02211 08274	TPH by NWTPH-Dx(water) w/SiGel TPH by NWTPH-Gx waters	modified ECY 97-602 NWTPH-Gx	1	01/20/2007 21:51	Martha L Seidel	5
08274	GC VOA Water Prep	modified SW-846 5030B	1	01/20/2007 21:51	Martha L Seidel	5



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Lancaster Laboratories Sample No. WW 4962282

MW-1 Grab Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007 11:58 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007

Special

271-1

02135

ECY 97-602 NWTPH-Dx Extraction - DRO Water 06/97

Account Number: 11260

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

Sherry L Morrow 01/26/2007 04:00

2



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Lancaster Laboratories Sample No. WW 4962283

MW-2 Grab Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007 11:25 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Account Number: 11260

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

271-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether Due to excessive foaming of the attained.	108-88-3 100-41-4 1330-20-7 1634-04-4	9.3 N.D. N.D. N.D. reporting lim	2.5 2.5 2.5 7.5 13. nits were not	ug/1 ug/1 ug/1 ug/1 ug/1	5 5 5 5
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	810. 270.	80. 100.	ug/l ug/l	1 1
08274	TPH by NWTPH-Gx waters			· · · ·		
01648	TPH by NWTPH-Gx waters Due to excessive foaming of the attained.	n.a. sample, normal	N.D. reporting li	240. mits were not	ug/l	5 ′

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	• •	Laboratory	Chro	nicle Analysis		Dilution
CAT No. 02159	Analysis Name BTEX, MTBE TPH by NWTPH-Dx(water)	<b>Method</b> SW-846 8021B ECY 97-602 NWTPH-Dx	Trial# 1 1	Date and Time 01/20/2007 22:33 01/23/2007 01:11	Analyst Martha L Seidel Matthew E Barton	Factor 5 1
02211 08274	YPH by NWIPH-DX (water) w/SiGel TPH by NWTPH-Gx waters	modified ECY 97-602 NWTPH-Gx modified	_	01/20/2007 22:33	Martha L Seidel	5
01146 02135	GC VOA Water Prep Extraction - DRO Water Special	SW-846 5030B ECY 97-602 NWTPH-DX 06/97	1	01/20/2007 22:33 01/22/2007 08:00	Martha L Seidel Tracy L Schickel	5 1



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Lancaster Laboratories Sample No. WW 4962283

MW-2 Grab Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007 11:25 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Chevron 6001 Bollinger Canyon Road

Account Number: 11260

271-2

6001 Bollinger Canyon L4310 San Ramon CA 94583



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### Lancaster Laboratories Sample No. WW 4962284

 MW-3 Grab Water Sample

 Facility# 305192
 Job# 387100

 9816
 271st St NW-Stanwood, WA

 Collected:01/15/2007
 10:54
 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Chevron 6001 Bollinger Canyon Road

Account Number: 11260

6001 Bollinger Canyon RC L4310 San Ramon CA 94583

271-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether The vial submitted for volatile of analysis. Due to the volati appropriate for the laboratory receipt. The pH of this sample Due to excessive foaming of the attained.	le nature of t to adjust the was pH = 7.	pH at the time of	f sample	ug/l ug/l ug/l ug/l ug/l	5 5 5 5
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	250. N.D.	82. 100.	ug/l ug/l	1 1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters The vial submitted for volatile of analysis. Due to the volati appropriate for the laboratory receipt. The pH of this sample Due to excessive foaming of the attained.	le nature of t to adjust the was $pH = 7$ .	pH at the time o	f sample	ug/1	5

State of Washington Lab Certification No. C259

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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle



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Lancaster Laboratories Sample No. WW 4962284

 MW-3 Grab Water Sample

 Facility# 305192
 Job# 387100

 9816
 271st St NW-Stanwood, WA

 Collected:01/15/2007
 10:54
 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Account Number: 11260

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

			•		•	
271-3 CAT No. 02159	Analysis Name BTEX, MTBE	Method SW-846 8021B ECY 97-602 NWTPH-DX	Trial# 1 1	Analysis Date and Time 01/20/2007 23:15 01/23/2007 01:50	Analyst Martha L Seidel Matthew E Barton	Dilution Factor 5 1
02211 08274	TPH by NWTPH-Dx(water) w/SiGel TPH by NWTPH-Gx waters	modified ECY 97-602 NWTPH-Gx	1	01/20/2007 23:15	Martha L Seidel	5
01146 02135	GC VOA Water Prep Extraction - DRO Water Special	modified SW-846 5030B ECY 97-602 NWTPH-Dx 06/97	1.	01/20/2007 23:15 01/22/2007 08:00	Martha L Seidel Tracy L Schickel	5 1

271-4



# **Analysis Report**

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## Lancaster Laboratories Sample No. WW 4962285

MW-4 Grab Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007 10:19 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Chevron 6001 Bollinger Canyon Road L4310

San Ramon CA 94583

Account Number: 11260

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether Due to excessive foaming of the attained.	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 sample, normal	N.D. N.D. N.D. N.D. reporting limits	2.5 2.5 2.5 7.5 13. s were not	ug/1 ug/1 ug/1 ug/1 ug/1	5 5 5 5
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095 02096	Diesel Range Organics Heavy Range Organics	n.a. n.a.	8,300. 3,000.	820. 1,000.	ug/l ug/l	10 10
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters Due to excessive foaming of the attained.	n.a. 2 sample, norma	N.D. l reporting limit.	240. s were not	ug/l	5 .

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laboratory	Chro	nicle Analysis		Dilution
CAT		Method	Trial#	Date and Time	Analyst	Factor
No.	Analysis Name	SW-846 8021B	1	01/20/2007 23:57	Martha L Seidel	5
02159 02211	BTEX, MTBE TPH by NWTPH-Dx(water)	ECY 97-602 NWTPH-DX	1	01/23/2007 12:31	Matthew E Barton	10
	w/SiGel TPH by NWTPH-Gx waters	modified ECY 97-602 NWTPH-Gx	1	01/20/2007 23:57	Martha L Seidel	5
08274	IPH by MAIPH-GA Addeed	modified	-	01/20/2007 23:57	Martha L Seidel	5
01146	GC VOA Water Prep	SW-846 5030B	1		Tracy L Schickel	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	01/22/2007 08:00	Tracy 2 Demonstrate	



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Lancaster Laboratories Sample No. WW 4962285

MW-4 Grab Water Sample Facility# 305192 Job# 387100 9816 271st St NW-Stanwood, WA Collected:01/15/2007 10:19 by BN

Submitted: 01/19/2007 09:40 Reported: 01/31/2007 at 08:50 Discard: 03/03/2007 Account Number: 11260

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

271-4

Lancaster Laboratories

# **Analysis Report**

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### Quality Control Summary

Group Number: 1022255

Client Name: Chevron Reported: 01/31/07 at 08:50 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD Max
Batch number: 070200011A Diesel Range Organics Heavy Range Organics	Sample n N.D. N.D.	umber(s): 80. 100.	4962283-49 ug/l ug/l	85 85		51-113		
Batch number: 07020A54A TPH by NWTPH-Gx waters Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample n N.D. N.D. N.D. N.D. N.D. N.D. N.D.	umber(s): 48. 0.5 0.5 0.5 1.5 2.5	4962281-49 ug/l ug/l ug/l ug/l ug/l ug/l	962285 95 99 100 102 103 95	96 101 102 104 105 97	70-130 86-119 82-119 81-119 82-120 82-124	2 2 2 2 2 2 2	30 30 30 30 30 30
Batch number: 070240016A Diesel Range Organics Heavy Range Organics	Sample n N.D. N.D.	umber(s): 80. 100.	4962282 ug/1 ug/1	85	85	51-113	0	20

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### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

116

117

104

	MS	MSD	MS/MSD		RPD	BKG	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
<u>Analysis Name</u>	<u>&amp;REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	Conc	<u>conc</u>	<u></u>	
Batch number: 070200011A Diesel Range Organics Heavy Range Organics			(s): 4962283			: P962275 N.D. N.D.	N.D. N.D.	0 (1) 0 (1)	20 20
Batch number: 07020A54A TPH by NWTPH-Gx waters Benzene Toluene	Sample 103 117 114	number	(s): 4962281 63-154 78-131 78-129	1-496228	5 UNSP	K: P962279,	P962280		

75-133

84-131

70-134

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel Batch number: 070200011A

\*- Outside of specification

Methyl tert-Butyl Ether

Ethylbenzene

Total Xylenes

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

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



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## Quality Control Summary

Group Number: 1022255

Client Name: Chevron Reported: 01/31/07 at 08:50 AM

Surrogate Quality Control

Orthoterphenyl

X, MTBE		Orthocerphenyi		
X, MTBE 0A54A 10rotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	4962283	111		
X, MTBE 0A54A 10rotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	4962284	104		
X, MTBE 0A54A 10rotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	1962285	147		
X, MTBE 0A54A 10rotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	Blank	. 113		
X, MTBE 0A54A 10rotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	DUP	112		
X, MTBE 0A54A 10rotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	LCS	119		
0A54A norotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	Limits:	50-150		
0A54A norotoluene-P Trifluorotoluene-F 100 100 97 97 99 100 91 90	Analysis N	Name: BTEX, MTBE		
100 100 97 97 99 100 91 90	Batch numb	per: 07020A54A	Twifluerateluero-F	
100 97 97 99 100 91 90		Trifluorotoluene-P	Triruorocordene-r	
97 97 99 100 91 90	4962281	93		
97 99 100 91 90	4962282	94		
99 100 91 90	4962283	94		
100 91 90	4962284	93		
91 90	4962285	94		
90	Blank	94 .		
89				
		94	89	
9 63-135	Limits:	69-129	63-135	
i by M	LCS LCSD MS Limits: Analysis I	93 94 94 	WTPH-Dx (wat	91 90 89 63-135 WTPH-Dx(water) w/SiGel
	II IIUIU	Orthoterphenyl		
terphenyl				
terphenyl	4962282	99		
terphenyl		99		
terphenyl	4962282 Blank LCS	99 99 115		

50-150 Limits:

\*- 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.

The following defines common symbols and abbreviations used in reporting technical data:

The following a			O antitation Louol
N.D. TNTC IU umhos/cm	none detected Too Numerous To Count International Units micromhos/cm	BMQL MPN CP Units NTU	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb. kg	pound(s) kilogram(s)
meq	milliequivalents	mg	milligram(s)
g	gram(s)	l l	liter(s)
ug	microgram(s)	ul	microliter(s)
ml m3	milliliter(s) cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can < be reliably determined using this specific test.

- greater than >
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of ppm water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- parts per billion ppb
- Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight concentration to approximate the value present in a similar sample without moisture. basis

U.S. EPA data qualifiers:

. . . . . .

#### **Organic Qualifiers**

- TIC is a possible aldol-condensation product A
- Analyte was also detected in the blank в
- Pesticide result confirmed by GC/MS С
- Compound quatitated on a diluted sample D
- Concentration exceeds the calibration range of E the instrument
- Estimated value J
- Presumptive evidence of a compound (TICs only) N
- Concentration difference between primary and P confirmation columns >25%
- Compound was not detected U
- Defined in case narrative X,Y,Z

### **Inorganic Qualifiers**

- Value is <CRDL, but ≥IDL в
- Estimated due to interference Ε
- Duplicate injection precision not met M
- Spike amount not within control limits N
- Method of standard additions (MSA) used S for calculation
- Compound was not detected U
- Post digestion spike out of control limits W
- Duplicate analysis not within control limits
- Correlation coefficient for MSA < 0.995 +

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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