



Raplee Property  
Stanwood  
Release 591953  
VOP NW1644

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May 23, 2011

Ms. Miren Garde-Aranzadi  
Chevron Environmental Management Company  
6101 Bollinger Canyon Road  
San Ramon, California 94583

*Subject:* **First Semiannual 2011 Groundwater Monitoring and Sampling Report  
Former Chevron Service Station No. 30-5192**  
9816 271st Street Northwest  
Stanwood, Washington

Dear Ms. Garde-Aranzadi:

SAIC Energy, Environment & Infrastructure, LLC (SAIC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the first semiannual 2011 groundwater monitoring and sampling event at former Chevron Service Station No. 30-5192 (the site) in Stanwood, Washington (Figure 1).

### FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on January 21, 2011. They collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in four monitoring wells on site.

Groundwater samples were collected from all four monitoring wells and submitted to Lancaster Laboratories, Inc. in Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and TPH as heavy oil-range organics (TPH-HRO) by Ecology Method NWTPH-Dx extended with silica gel cleanup; and
- Benzene, toluene, ethylbenzene, and total xylenes, and methyl tert-butyl ether by United States Environmental Protection Agency (EPA) Method 8021B.

Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).

SAIC Energy, Environment & Infrastructure, LLC

18912 North Creek Parkway | Suite 101 | Bothell, WA 98011 | tel: (425) 485-5800 | fax: (425) 485-5566 | saic.com/eeandi



## FINDINGS

At the time of this monitoring event, groundwater elevations ranged from 97.53 feet in monitoring well MW-3 to 96.61 feet in monitoring well MW-1, based on an arbitrary benchmark elevation of 100.00 feet. Groundwater potentially flows toward the northwest at a gradient of approximately 0.009 feet per foot (Figure 2). Groundwater elevations increased an average of 1.00 feet since the previous semiannual monitoring event in July 2010.

SPH were not detected in any of the monitoring wells.

The following analytes were detected at concentrations exceeding their respective Model Toxics Control Act Method A cleanup levels:

- TPH-DRO was detected in monitoring wells MW-2 and MW-4; and
- TPH-HRO was detected in monitoring wells MW-1, MW-2, and MW-3.

Historical groundwater elevation data and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B.

## DISCUSSION

Groundwater elevations and potential flow direction are consistent with historical data reported at the site.

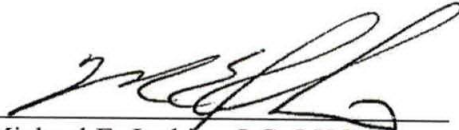
Petroleum-hydrocarbon constituent concentrations are generally consistent with previous events and mainly consist of TPH-DRO and TPH-HRO. These detections are most likely associated with the underground storage tanks that were used for waste oil by a previous tenant (not Standard Oil) or a leaking off-property heating oil tank.


Gettler-Ryan will continue to perform groundwater monitoring and sampling on a semiannual basis. The next groundwater monitoring and sampling event is scheduled for July 2011.

If you have any questions or comments, please contact me at (916) 757-3462 or via email at [jenkinsme@saic.com](mailto:jenkinsme@saic.com).

Sincerely,

**SAIC Energy, Environment & Infrastructure, LLC**

  
Michael E. Jenkins, LG, LHG  
Senior Project Manager

  
Gabriel Cisneros, LG #2357  
Geologist



Enclosures:

Figure 1 – Vicinity Map

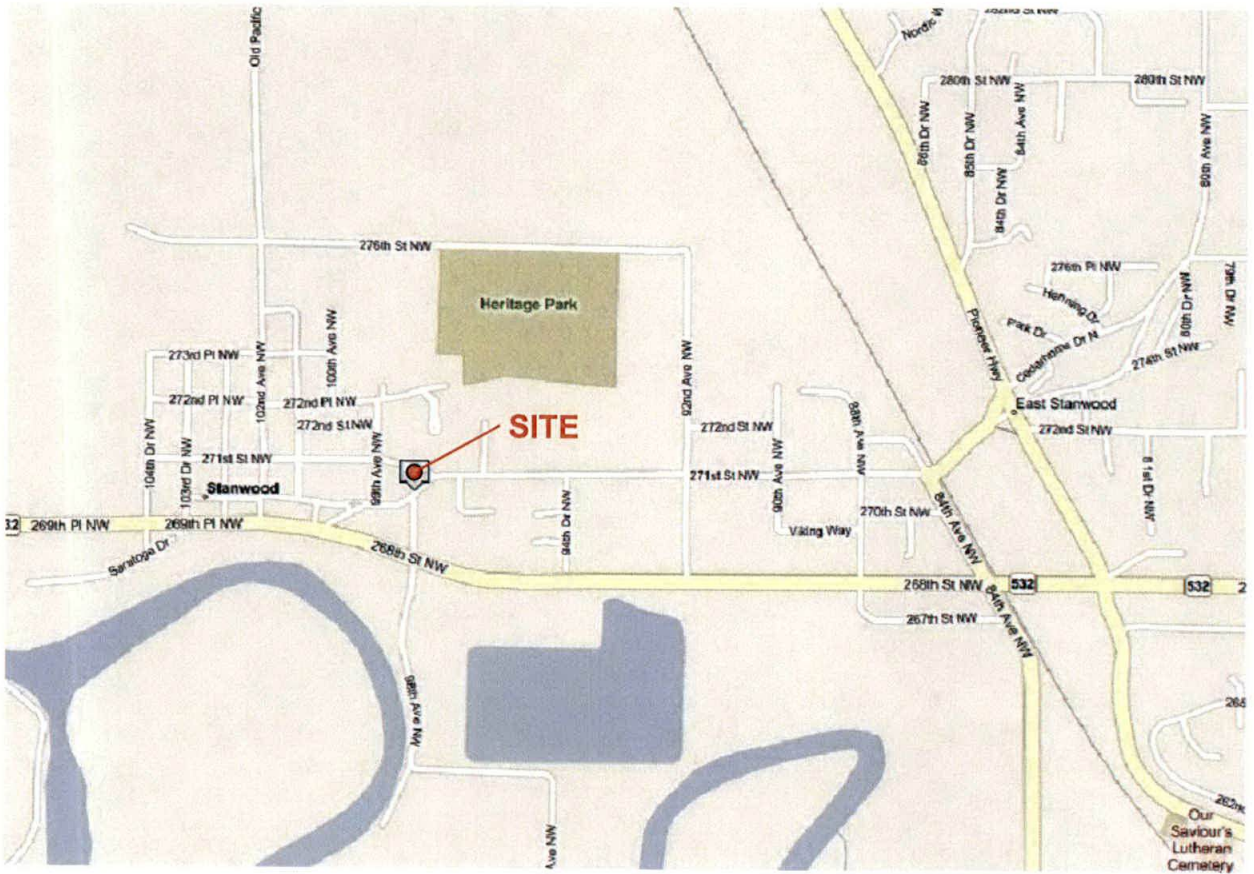
Figure 2 – Potentiometric Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A – Groundwater Monitoring and Sampling Data Package

Attachment B – Laboratory Analysis Report

cc: Ms. Donna Musa – Ecology NW Region, Toxics Cleanup Program  
3190 160<sup>th</sup> Avenue SE, Bellevue, WA 98008-5452  
Mr. Wayne Raplee – Property Owner  
14115 70<sup>th</sup> Avenue NW, Stanwood, WA 98292  
Mr. Joshua Lipsky – Cascadia Law Group PLLC  
1201 Third Avenue, Suite 320, Seattle, WA 98101  
Project File



Maps Provided by Seattle.gov

Z:\2004\Cherem\Texas\WA\_Portfolio\305192\_Stanwood\30-5192\_VM2010.dwg greenjama 10/03/11 - 1:12 P

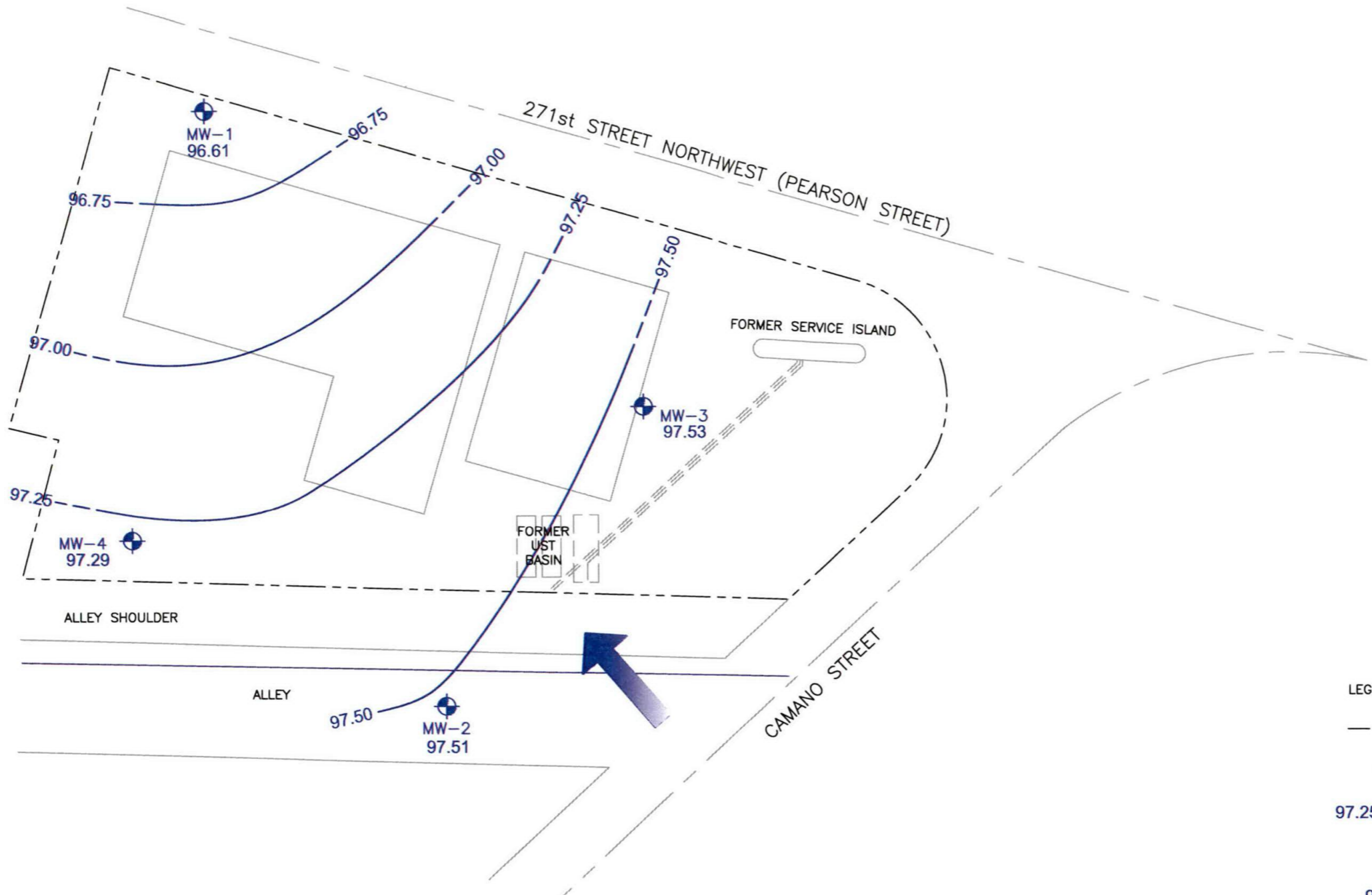


Former Chevron Service Station No. 30-5192  
9816 271st Street Northwest  
Stanwood, Washington

FIGURE 1  
Vicinity Map

FILE NAME:  
30-5192\_VM2010.dwg

DATE:  
02/24/2011



- LEGEND
- Property Line
  - ⊕ Monitoring Well Location
  - 97.25 — Groundwater Table Contours at a 0.25 Foot Interval (Dashed Where Inferred)
  - 97.51 Groundwater Elevation in Feet
  - ← Approximate Groundwater Flow Direction at a Gradient of 0.009



FORMER CHEVRON SERVICE STATION NO. 30-5192 9816 271ST STREET NORTHWEST STANWOOD, WASHINGTON	<b>FIGURE 2</b> <b>Potentiometric Map</b> <b>January 21, 2011</b>	
	<small>FILE NAME:</small> 30-5192_PotentiometricMap.dwg	<small>DATE:</small> 03/01/2011

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**FORMER CHEVRON SERVICE STATION NO. 30-5192**  
**9816 271st Street Northwest**  
**Stanwood, Washington**  
**Concentrations reported in µg/L**

Well ID/ Date	Purge Method	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
<b>MW-1</b>													
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
08/02/06	PER	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	--
10/10/06	PER	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	--
01/15/07	PER	98.32	1.64	96.68	<160 <sup>1</sup>	<200 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07	PER	98.32	1.58	96.74	190 <sup>1</sup>	130 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	98.32	2.58	95.74	<81 <sup>1</sup>	<100 <sup>1</sup>	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	PER	98.32	3.00	95.32	130 <sup>1</sup>	<100 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<7.5	<13	--
01/03/08		98.32	2.51	95.81	130 <sup>1</sup>	<100 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/28/09	LFP	98.32	3.27	95.05	<b>610<sup>1</sup></b>	<b>610<sup>1</sup></b>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/22/09	LFP	98.32	4.43	93.89	<b>650<sup>1</sup></b>	<b>720<sup>1</sup></b>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	LFP	98.32	3.32	95.00	350 <sup>1</sup>	160 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/20/10	LFP	98.32	3.02	95.30	130 <sup>1</sup>	100 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/21/11	LFP	98.32	1.71	96.61	<160 <sup>1,4</sup>	<b>650<sup>1</sup></b>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
<b>MW-2</b>													
04/10/06		99.58	2.29	97.29	--	--	--	--	--	--	--	--	--
05/03/06		99.58	--	--	<b>1,400<sup>1</sup></b>	<b>560<sup>1</sup></b>	<240	<b>13</b>	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	99.58	2.98	96.60	<b>2,000<sup>1</sup></b>	<b>1,800<sup>1</sup></b>	220	<b>20</b>	<0.5	<0.5	1.6	<2.5	--
10/10/06	PER	99.58	3.64	95.94	<b>1,400<sup>1</sup></b>	<b>790<sup>1</sup></b>	<240	<b>16</b>	<2.5	<2.5	<7.5	<13	--
01/15/07	PER	99.58	2.08	97.50	<b>810<sup>1</sup></b>	270 <sup>1</sup>	<240	<b>9.3</b>	<2.5	<2.5	<7.5	<13	--
04/25/07	PER	99.58	2.16	97.42	<b>830<sup>1</sup></b>	480 <sup>1</sup>	250	<b>13</b>	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	99.58	2.95	96.63	<b>7,800<sup>1,3</sup></b>	<b>&lt;1,000<sup>1,3</sup></b>	<500	<b>13</b>	<5.0	<5.0	<15	<25	--
10/03/07	PER	99.58	3.44	96.14	<b>1,600<sup>1</sup></b>	<b>1,100<sup>1</sup></b>	<250	<b>4.9</b>	<2.5	<2.5	<7.5	<13	--
01/03/08		99.58	2.32	97.26	<b>1,400<sup>1</sup></b>	<b>800<sup>1</sup></b>	460	<b>6.7</b>	1.0	<0.5	<1.5	<2.5	--
02/28/09	LFP	99.58	2.89	96.69	<b>2,700<sup>1</sup></b>	<b>2,800<sup>1</sup></b>	450	2.5	0.6	<0.5	<1.5	<2.5	--
07/22/09	LFP	99.58	3.33	96.25	<b>2,500<sup>1</sup></b>	<b>4,000<sup>1</sup></b>	360	1.1	0.8	<0.5	1.5	<2.5	--
01/08/10	LFP	99.58	2.90	96.68	<b>1,800<sup>1</sup></b>	<b>1,400<sup>1</sup></b>	470	<0.5	0.5	0.7	<1.5	<2.5	--
07/20/10	LFP	99.58	2.88	96.70	<b>2,000<sup>1</sup></b>	<b>1,600<sup>1</sup></b>	420	<0.5	0.8	<0.5	<1.5	<2.5	--
01/21/11	LFP	99.58	2.07	97.51	<b>2,000<sup>1</sup></b>	<b>1,900<sup>1</sup></b>	390	<0.5	<0.5	0.6	<1.5	<2.5	--
<b>MW-3</b>													
04/10/06		99.16	0.40	98.76	--	--	--	--	--	--	--	--	--
05/03/06		99.16	--	--	<b>580<sup>1</sup></b>	240 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	99.16	2.61	96.55	350 <sup>1</sup>	380 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06	PER	99.16	2.75	96.41	310 <sup>1</sup>	140 <sup>1</sup>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**FORMER CHEVRON SERVICE STATION NO. 30-5192**  
**9816 271st Street Northwest**  
**Stanwood, Washington**  
**Concentrations reported in µg/L**

Well ID/ Date	Purge Method	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead
<b>MW-3 (cont)</b>													
01/15/07	PER	99.16	0.50	98.66	250 <sup>1</sup>	<100 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07	PER	99.16	0.84	98.32	260 <sup>1</sup>	110 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	99.16	2.16	97.00	250 <sup>1</sup>	150 <sup>1</sup>	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	PER	99.16	2.68	96.48	330 <sup>1</sup>	260 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<7.5	<13	--
01/03/08		99.16	1.62	97.54	280 <sup>1</sup>	210 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/28/09	LFP	99.16	1.56	97.60	290 <sup>1</sup>	190 <sup>1</sup>	<50	<0.5	<0.5	<0.5	1.6	<2.5	--
07/22/09	LFP	99.16	3.11	96.05	<b>780<sup>1</sup></b>	<b>830<sup>1</sup></b>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	LFP	99.16	2.83	96.33	<b>680<sup>1</sup></b>	360 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/20/10	LFP	99.16	1.92	97.24	330 <sup>1</sup>	190 <sup>1</sup>	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/21/11	LFP	99.16	1.63	97.53	<160 <sup>1,4</sup>	<b>630<sup>1</sup></b>	<50	<0.5	<0.5	<1.5	<1.5	<2.5	--
<b>MW-4</b>													
04/10/06		100.00	2.08	97.92	--	--	--	--	--	--	--	--	--
05/03/06		100.00	--	--	<b>7,900<sup>1</sup></b>	<1,000 <sup>1</sup>	<240	<2.5	<2.5	<2.5	<7.5	<13	<0.87
08/02/06	PER	100.00	3.57	96.43	<b>7,300<sup>1</sup></b>	<1,000 <sup>1</sup>	73	<0.5	<0.5	<0.5	2.8	<2.5	--
10/10/06 <sup>2</sup>	PER	100.00	4.28	95.72	<b>7,900<sup>1</sup></b>	<b>2,200<sup>1</sup></b>	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/15/07 <sup>2</sup>	PER	100.00	2.98	97.02	<b>8,300<sup>1</sup></b>	<b>3,000<sup>1</sup></b>	<240	<2.5	<2.5	<2.5	<7.5	<13	--
04/25/07 <sup>2</sup>	PER	100.00	4.35	95.65	<b>9,300<sup>1</sup></b>	<b>2,000<sup>1</sup></b>	89	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07	PER	100.00	4.06	95.94	<b>850<sup>1,3</sup></b>	320 <sup>1,3</sup>	<500	<5.0	<5.0	<5.0	<15	<25	--
10/03/07	PER	100.00	4.22	95.78	<b>8,500<sup>1</sup></b>	<2,100 <sup>1</sup>	<250	<2.5	<2.5	<2.5	<7.5	<13	--
01/03/08		100.00	3.98	96.02	<b>9,100<sup>1</sup></b>	<b>2,200<sup>1</sup></b>	61	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/28/09	LFP	100.00	3.44	96.56	<b>5,400<sup>1</sup></b>	<b>2,100<sup>1</sup></b>	56	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/22/09	LFP	100.00	3.30	96.70	<b>14,000<sup>1</sup></b>	<b>7,600<sup>1</sup></b>	100	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/08/10	LFP	100.00	3.51	96.49	<b>13,000<sup>1</sup></b>	<b>18,000<sup>1</sup></b>	75	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/20/10	LFP	100.00	4.31	95.69	<b>12,000<sup>1</sup></b>	<b>13,000<sup>1</sup></b>	69	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/21/11	LFP	100.00	2.71	97.29	<b>14,000<sup>1</sup></b>	<1,800 <sup>1</sup>	50	<0.5	<0.5	<0.5	<1.5	<2.5	--
<b>TRIP BLANK QA</b>													
05/03/06		--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/02/06		--	--	--	--	--	<48	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/10/06		--	--	--	--	--	<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	--
04/25/07		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
07/15/07		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
10/03/07		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
01/03/08		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS**  
**FORMER CHEVRON SERVICE STATION NO. 30-5192**  
**9816 271st Street Northwest**  
**Stanwood, Washington**  
**Concentrations reported in µg/L**

Well ID/ Date	Purge Method	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	D. Lead	
<b>TRIP BLANK QA (cont)</b>														
02/28/09		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
07/22/09		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
01/08/10		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
07/20/10		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
01/21/11		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--	
Standard Laboratory Reporting Limits:					--	--	50	0.5	0.5	0.5	1.5	2.5	0.001	
MTCA Method A CULs:					500	500	800/1,000	5	1,000	700	1,000	20	--	
Current Method:					NWTPH-Dx + Extended							NWTPH-Gx and USEPA 8021B		USEPA 7421

**EXPLANATIONS:**

TOC = Top of Casing  
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH = Total Petroleum Hydrocarbons

TPH-DRO = TPH as diesel-range organics

TPH-GRO = TPH as gasoline-range organics

TPH-HRO = TPH as heavy oil-range organics

MTBE = Methyl Tertiary Butyl Ether

D. Lead = Dissolved Lead

µg/L = Micrograms per liter

-- = Not Measured/Not Analyzed

LFP = Low Flow Purge

PER = Peristaltic Pump

QA = Quality Assurance/Trip Blank

MTCA = Model Toxics Control Act

CULs = Cleanup levels

USEPA = United States Environmental Protection Agency

Analytical results in bold font indicate concentrations exceed MTCA Method A CULs.

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

1 Analyzed with silica-gel cleanup.

2 Incorrect TOC used to calculate GWE in past reports (99.16). Correct TOC is shown.

3 Current laboratory analytical results do not coincide with historical data, samples may have been switched in the field.

4 Reporting limits were raised due to interference from the sample matrix.

**Attachment A:**  
**Groundwater Monitoring and Sampling Data Package**



# GETTLER-RYAN INC.



## TRANSMITTAL

January 27, 2011  
G-R #387100

TO: Mr. Michael Lange  
SAIC  
18912 North Creek Parkway, Ste. 101  
Bothell, Washington 98011

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

RE: **Former Chevron Service Station  
#305192  
9816 271<sup>st</sup> Street Northwest  
Stanwood, Washington**

### WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Semi-Annual Event of January 21, 2011

### COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/305192



## **Standard Operating Procedure, Low-Flow Purging and Sampling**

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures."

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

### ***Initial Pump Discharge Test Procedures***

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute without the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. If the in-line flow cell is to be used, purging is discontinued once the ODR is determined, and the inline flow cell is connected. Purging is then resumed and the ODR is adjusted to allow for the back pressure of the in-line flow cell.

### ***Purging and Water Quality Parameter Measurement***

Prior to sampling the well, the SWL will be re-measured and documented and purging will be re-initiated using the ODR. The discharge rate will be confirmed by volumetric discharge measurement and the ODR adjusted as necessary. When the ODR has been re-established, the SWL drawdown has stabilized within the acceptable range and at least one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ( $\pm 10\%$ ), pH ( $\pm 0.1$  unit), and Ec ( $\pm 10$  uS) are required to stabilize. Additional parameters that may be required are DO ( $\pm 0.2$  mg/l) and ORP ( $\pm 20$  mV).

### ***Sample Collection***

When water quality parameters have stabilized, and there is no change in the SWL drawdown, groundwater sample collection may begin. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. 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. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. 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#: Chevron #305192 Job Number: 387100  
 Site Address: 9816 271st Street Nw Event Date: 1-21-11 (inclusive)  
 City: Stanwood, WA Sampler: ML

Well ID: MW-1  
 Well Diameter: 1.5 in.  
 Total Depth: 14.16 ft.  
 Depth to Water: 1.71 ft.

Date Monitored: 1-21-11

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

Check if water column is less than 0.50 ft.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1100 Weather Conditions: Rain  
 Sample Time/Date: 1130 1-21-11 Water Color: Cloudy Odor: 01 N Light  
 Approx. Flow Rate: 200 ml gpm. Sediment Description: None  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 1.75

Time (2400 hr.)	Volume (ml)	pH	Conductivity (µmhos/cm - 6S)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1115</u>	<u>3.1</u>	<u>6.59</u>	<u>1068</u>	<u>8.4</u>			<u>1.75</u>
<u>1118</u>	<u>3.6</u>	<u>6.64</u>	<u>1070</u>	<u>8.4</u>			<u>1.75</u>
<u>1121</u>	<u>4.2</u>	<u>6.64</u>	<u>1071</u>	<u>8.4</u>			<u>1.75</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>5</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX+MTBE(8021)</u>
	<u>7</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/lsg</u>

### COMMENTS:

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #305192 Job Number: 387100  
 Site Address: 9816 271st Street Nw Event Date: 1-21-11 (Inclusive)  
 City: Stanwood, WA Sampler: MJ

Well ID: MW-2  
 Well Diameter: 1.5 in.  
 Total Depth: 14.18 ft.  
 Depth to Water: 2.07 ft.

Date Monitored: 1-21-11

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW):           
 xVF =          x3 case volume = Estimated Purge Volume:          gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1240 Weather Conditions: Rain  
 Sample Time/Date: 1310 / 1-21-11 Water Color: Clear Odor: Y 10  
 Approx. Flow Rate: 200 ml gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 2.07

Time (2400 hr.)	Volume (L)	pH	Conductivity (µmhos/cm - S)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1255</u>	<u>3</u>	<u>6.54</u>	<u>1555</u>	<u>9.5</u>			<u>2.07</u>
<u>1258</u>	<u>3.6</u>	<u>6.61</u>	<u>1554</u>	<u>9.5</u>			<u>2.07</u>
<u>1301</u>	<u>4.2</u>	<u>6.62</u>	<u>1554</u>	<u>9.5</u>			<u>2.07</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>5</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX+MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sg</u>

### COMMENTS:

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #305192 Job Number: 387100  
 Site Address: 9816 271st Street Nw Event Date: 1-21-11 (inclusive)  
 City: Stanwood, WA Sampler: ML

Well ID: MW-3  
 Well Diameter: 1.5 in.  
 Total Depth: 13.62 ft.  
 Depth to Water: 1.63 ft.

Date Monitored: 1-21-11

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_  
 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one) \_\_\_\_\_  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1150 Weather Conditions: Rain  
 Sample Time/Date: 12:20 1-21-11 Water Color: Clear Odor: Y 10  
 Approx. Flow Rate: 200 ml gpm. Sediment Description: None  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 1.63

Time (2400 hr.)	Volume	pH	Conductivity (µmhos/cm - 25)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1205</u>	<u>3</u>	<u>6.72</u>	<u>1121</u>	<u>9.1</u>			<u>1.63</u>
<u>1208</u>	<u>3.6</u>	<u>6.70</u>	<u>1127</u>	<u>9.1</u>			<u>1.63</u>
<u>1211</u>	<u>4.2</u>	<u>6.70</u>	<u>1128</u>	<u>9.1</u>			<u>1.63</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX+MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sg</u>

### COMMENTS:

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #305192  
 Site Address: 9816 271st Street Nw  
 City: Stanwood, WA

Job Number: 387100  
 Event Date: 1-21-11 (inclusive)  
 Sampler: ML

Well ID: MW-4  
 Well Diameter: 1.5 in.  
 Total Depth: 13.71 ft.  
 Depth to Water: 2.71 ft.

Date Monitored: 1-21-11

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_  
 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump X  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): 1330  
 Sample Time/Date: 1400 1-21-11  
 Approx. Flow Rate: 200 ml / 1 gpm.  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_

Weather Conditions: Rain  
 Water Color: Cloudy Odor: 01 N STRONG  
 Sediment Description: none  
 gal. DTW @ Sampling: 2.71

Time (2400 hr.)	Volume (L)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
<u>1345</u>	<u>3</u>	<u>6.72</u>	<u>916</u>	<u>9.0</u>	_____	_____	<u>2.71</u>
<u>1348</u>	<u>3.6</u>	<u>6.74</u>	<u>916</u>	<u>9.0</u>	_____	_____	<u>2.71</u>
<u>1351</u>	<u>4.2</u>	<u>6.77</u>	<u>916</u>	<u>9.0</u>	_____	_____	<u>2.71</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Gx/BTEX+MTBE(8021)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>NWTPH-Dx w/sg</u>

COMMENTS: THICK BLACK PRODUCT PRESENT ON TUBING AFTER SAMPLING.

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

# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_ Sample #: \_\_\_\_\_ SCR#: \_\_\_\_\_

Facility #: <u>SS# 305192-OML G-R# 387100</u> Site Address: <u>9816 271st Street NW, STANWOOD, WA</u> Chevron PM: <u>OS</u> Lead Consultant: <u>SAICML Lange</u> Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u> Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>MIKE LOMBARD</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			<b>Matrix</b> <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers		<b>Analyses Requested</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="10">Preservation Codes</th> </tr> <tr> <td><input type="checkbox"/> H</td> <td><input type="checkbox"/> H</td> <td><input type="checkbox"/> H</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> BTEX + MTBE 8021</td> <td><input type="checkbox"/> 8260</td> <td><input type="checkbox"/> Naphth</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> 8260 full scan</td> <td><input type="checkbox"/> Oxygenates</td> <td><input type="checkbox"/> TPH G<sub>X</sub></td> <td><input type="checkbox"/> Extended Rng.</td> <td><input type="checkbox"/> Silica Gel Cleanup</td> <td><input type="checkbox"/> Lead Total</td> <td><input type="checkbox"/> Diss.</td> <td><input type="checkbox"/> Method</td> <td><input type="checkbox"/> VPHEPH</td> <td><input type="checkbox"/> quantification</td> </tr> </table>										Preservation Codes										<input type="checkbox"/> H	<input type="checkbox"/> H	<input type="checkbox"/> H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> BTEX + MTBE 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input type="checkbox"/> TPH G <sub>X</sub>	<input type="checkbox"/> Extended Rng.	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> Lead Total	<input type="checkbox"/> Diss.	<input type="checkbox"/> Method	<input type="checkbox"/> VPHEPH	<input type="checkbox"/> quantification	<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other  <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits	
Preservation Codes																																																								
<input type="checkbox"/> H	<input type="checkbox"/> H	<input type="checkbox"/> H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																															
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Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	8260 full scan	Oxygenates	TPH G <sub>X</sub>	TPH D	Lead Total	VPHEPH	NWTPH H CID	quantification	Comments / Remarks																																					
QA	1-21-11		X			X			2	X			X							Please forward the lab results directly to the Lead Consultant and cc: G-R.																																				
NW-1		1130	X			X			5	X			X	X																																										
NW-2		1310	X			X			5	X			X	X																																										
NW-3		1220	X			X			5	X			X	X																																										
NW-4		1400	X			X			5	X			X	X																																										
<b>Turnaround Time Requested (TAT) (please circle)</b> STD. TAT      72 hour      48 hour 24 hour      4 day      5 day			Relinquished by: _____ Date: <u>1-21-11</u> Time: <u>1630</u>			Received by: _____ Date: _____ Time: _____																																																		
<b>Data Package Options (please circle if required)</b> QC Summary      Type I - Full Type VI (Raw Data)      Disk / EDD WIP (RWQCB)      Standard Format Disk      _____ Other.			Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____																																																		
			Relinquished by Commercial Carrier: UPS      FedEx      Other _____			Received by: _____ Date: _____ Time: _____																																																		
			Temperature Upon Receipt _____ C°			Custody Seals Intact?      Yes      No																																																		

**Attachment B:**  
**Laboratory Analysis Report**

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## ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron  
6001 Bollinger Canyon Road  
L4310  
San Ramon CA 94583

February 02, 2011

Project: 305192

Submittal Date: 01/22/2011  
Group Number: 1230158  
PO Number: 0015061199  
Release Number: SKANCE  
State of Sample Origin: WAClient Sample DescriptionQA Water Sample  
MW-1 Grab Water Sample  
MW-2 Grab Water Sample  
MW-3 Grab Water Sample  
MW-4 Grab Water SampleLancaster Labs (LLI) #6189733  
6189734  
6189735  
6189736  
6189737

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO SAIC c/o Gettler-Ryan  
ELECTRONIC COPY TO SAIC  
ELECTRONIC COPY TO SAIC

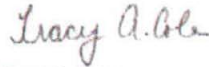
Attn: Rachelle Munoz

Attn: Mike Lange

Attn: Jamalyn Green

Questions? Contact your Client Services Representative  
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,



Tracy A. Cole  
Senior Specialist

**Sample Description:** QA Water Sample  
 Facility# 305192 Job# 387100  
 9816 271st Street NW - Stanwood, WA

LLI Sample # WW 6189733  
 LLI Group # 1230158  
 Account # 11260

**Project Name:** 305192

Collected: 01/21/2011

Chevron

Submitted: 01/22/2011 10:00

6001 Bollinger Canyon Road  
L4310

Reported: 02/02/2011 15:07

San Ramon CA 94583

271QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
	<b>ECY 97-602 NWTPH-Gx</b>		<b>ug/l</b>	<b>ug/l</b>	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Volatiles</b>					
	<b>SW-846 8021B</b>		<b>ug/l</b>	<b>ug/l</b>	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11026A94A	01/27/2011 18:07	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	11026A94A	01/27/2011 18:07	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11026A94A	01/27/2011 18:07	Carrie E Miller	1

**Sample Description: MW-1 Grab Water Sample**  
**Facility# 305192 Job# 387100**  
**9816 271st Street NW - Stanwood, WA**

**LLI Sample # WW 6189734**  
**LLI Group # 1230158**  
**Account # 11260**

**Project Name: 305192**

Collected: 01/21/2011 11:30 by ML

Chevron

6001 Bollinger Canyon Road  
L4310

Submitted: 01/22/2011 10:00

Reported: 02/02/2011 15:07

San Ramon CA 94583

271-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles ECY 97-602 NWTPH-Gx</b>					
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Volatiles SW-846 8021B</b>					
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
<b>GC Extractable TPH ECY 97-602 NWTPH-Dx w/Si Gel modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	160	5
02211	HRO C24-C40 w/Si Gel	n.a.	650	380	5

Reporting limits were raised due to interference from the sample matrix.

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11026A94A	01/27/2011 20:45	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	11026A94A	01/27/2011 20:45	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11026A94A	01/27/2011 20:45	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	110270009A	02/02/2011 00:32	Melissa McDermott	5
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	110270009A	01/27/2011 15:35	Kathryn I DeHaven	1



# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-2 Grab Water Sample  
 Facility# 305192 Job# 387100  
 9816 271st Street NW - Stanwood, WA

LLI Sample # WW 6189735  
 LLI Group # 1230158  
 Account # 11260

Project Name: 305192

Collected: 01/21/2011 13:10 by ML

Chevron  
 6001 Bollinger Canyon Road  
 L4310  
 San Ramon CA 94583

Submitted: 01/22/2011 10:00

Reported: 02/02/2011 15:07

271-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
	<b>ECY 97-602 NWTPH-Gx</b>		<b>ug/l</b>	<b>ug/l</b>	
08274	NWTPH-Gx water C7-C12	n.a.	390	50	1
<b>GC Volatiles</b>					
	<b>SW-846 8021B</b>		<b>ug/l</b>	<b>ug/l</b>	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	0.6	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
<b>GC Extractable TPH</b>					
	<b>ECY 97-602 NWTPH-Dx</b>		<b>ug/l</b>	<b>ug/l</b>	
<b>w/Si Gel modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	2,000	32	1
02211	HRO C24-C40 w/Si Gel	n.a.	1,900	74	1

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11026A94A	01/27/2011 21:12	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	11026A94A	01/27/2011 21:12	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11026A94A	01/27/2011 21:12	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	110270009A	01/31/2011 13:39	Marie D John	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	110270009A	01/27/2011 15:35	Kathryn I DeHaven	1

**Sample Description: MW-3 Grab Water Sample**  
**Facility# 305192 Job# 387100**  
**9816 271st Street NW - Stanwood, WA**

**LLI Sample # WW 6189736**  
**LLI Group # 1230158**  
**Account # 11260**

**Project Name: 305192**

Collected: 01/21/2011 12:20 by ML

Chevron

6001 Bollinger Canyon Road

Submitted: 01/22/2011 10:00

L4310

Reported: 02/02/2011 15:07

San Ramon CA 94583

271-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
	<b>ECY 97-602 NWTPH-Gx</b>		<b>ug/l</b>	<b>ug/l</b>	
08274	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
<b>GC Volatiles</b>					
	<b>SW-846 8021B</b>		<b>ug/l</b>	<b>ug/l</b>	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
<b>GC Extractable TPH</b>					
	<b>ECY 97-602 NWTPH-Dx</b>		<b>ug/l</b>	<b>ug/l</b>	
<b>w/Si Gel modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	N.D.	160	5
02211	HRO C24-C40 w/Si Gel	n.a.	630	370	5

Reporting limits were raised due to interference from the sample matrix.

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11026A94A	01/27/2011 21:39	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	11026A94A	01/27/2011 21:39	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11026A94A	01/27/2011 21:39	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	110270009A	02/02/2011 00:53	Melissa McDermott	5
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	110270009A	01/27/2011 15:35	Kathryn I DeHaven	1

**Sample Description:** MW-4 Grab Water Sample  
 Facility# 305192 Job# 387100  
 9816 271st Street NW - Stanwood, WA

LLI Sample # WW 6189737  
 LLI Group # 1230158  
 Account # 11260

**Project Name:** 305192

Collected: 01/21/2011 14:00 by ML

Chevron

6001 Bollinger Canyon Road

Submitted: 01/22/2011 10:00

L4310

Reported: 02/02/2011 15:07

San Ramon CA 94583

271-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
<b>GC Volatiles</b>					
	<b>ECY 97-602 NWTPH-Gx</b>		<b>ug/l</b>	<b>ug/l</b>	
08274	NWTPH-Gx water C7-C12	n.a.	50	50	1
<b>GC Volatiles</b>					
	<b>SW-846 8021B</b>		<b>ug/l</b>	<b>ug/l</b>	
02102	Benzene	71-43-2	N.D.	0.5	1
02102	Ethylbenzene	100-41-4	N.D.	0.5	1
02102	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	1
02102	Toluene	108-88-3	N.D.	0.5	1
02102	Total Xylenes	1330-20-7	N.D.	1.5	1
<b>GC Extractable TPH</b>					
	<b>ECY 97-602 NWTPH-Dx</b>		<b>ug/l</b>	<b>ug/l</b>	
<b>w/Si Gel modified</b>					
02211	DRO C12-C24 w/Si Gel	n.a.	14,000	780	25
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	1,800	25

### General Sample Comments

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 Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08274	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	11026A94A	01/27/2011 23:24	Carrie E Miller	1
02102	Method 8021 Water Master	SW-846 8021B	1	11026A94A	01/27/2011 23:24	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11026A94A	01/27/2011 23:24	Carrie E Miller	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	110270009A	02/02/2011 02:16	Melissa McDermott	25
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	110270009A	01/27/2011 15:35	Kathryn I DeHaven	1

## Quality Control Summary

Client Name: Chevron

Group Number: 1230158

Reported: 02/02/11 at 03:07 PM

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

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11026A94A	Sample number(s): 6189733-6189737							
Benzene	N.D.	0.2	ug/l	100	115	80-120	14	30
Ethylbenzene	N.D.	0.2	ug/l	95	110	80-120	15	30
Methyl tert-Butyl Ether	N.D.	0.3	ug/l	115	110	78-125	4	30
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	109	100	75-135	9	30
Toluene	N.D.	0.2	ug/l	100	115	80-120	14	30
Total Xylenes	N.D.	0.6	ug/l	97	107	80-120	10	30
Batch number: 110270009A	Sample number(s): 6189734-6189737							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	83	89	56-103	7	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

### 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: Method 8021 Water Master

Batch number: 11026A94A

	Trifluorotoluene-P	Trifluorotoluene-F
6189733	99	89
6189734	99	83
6189735	104	88
6189736	101	82
6189737	99	82
Blank	99	89
LCS	97	98
LCSD	99	94
Limits:	58-146	63-135

Analysis Name: NWTPH-Dx water w/Si Gel

Batch number: 110270009A

Orthoterphenyl

6189734	88
6189735	107
6189736	106
6189737	69
Blank	107

\*- Outside of specification

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

## Quality Control Summary

Client Name: Chevron  
Reported: 02/02/11 at 03:07 PM

Group Number: 1230158

### Surrogate Quality Control

LCS 115  
LCSD 123

Limits: 50-150

---

\*- Outside of specification

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

# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 11260 Sample #: 6189733-37 SCR#: \_\_\_\_\_

G# 1230158

Facility #: SS#305192-OML G-R#387100  
 Site Address: 9816 271st Street NW, STANWOOD, WA  
 Chevron PM: OS Lead Consultant: SAICML Lange  
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: MIKE LOMBARD  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested									
		Preservation Codes									
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	full scan	Oxygenates	TPH	GX
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

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

Sample Identification	Date Collected	Time Collected	Grab	Composite
<u>QA</u>	<u>1-21-11</u>		<input checked="" type="checkbox"/>	
<u>NW-1</u>		<u>1130</u>	<input checked="" type="checkbox"/>	
<u>NW-2</u>		<u>1310</u>	<input checked="" type="checkbox"/>	
<u>NW-3</u>		<u>1220</u>	<input checked="" type="checkbox"/>	
<u>NW-4</u>		<u>1400</u>	<input checked="" type="checkbox"/>	

**Comments / Remarks**

Please forward the lab results directly to the Lead Consultant and cc: G-R.

**Turnaround Time Requested (TAT) (please circle)**  
 STD. TAT  
 24 hour      72 hour      48 hour  
 4 day      5 day

**Data Package Options (please circle if required)**      **EDF/EDD**  
 QC Summary      Type I - Full  
 Type VI (Raw Data)      Disk / EDD  
 WIP (RWQCB)      Standard Format  
 Disk      Other: \_\_\_\_\_

Relinquished by: [Signature]      Date: 1-21-11      Time: 1630  
 Received by: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_

Relinquished by Commercial Carrier:  
 UPS       FedEx      Other: \_\_\_\_\_      Received by: [Signature]  
 Date: 1/21/11      Time: 1600

Temperature Upon Receipt: 3.2 °C      Custody Seals Intact?      Yes  No

# Explanation of Symbols and Abbreviations

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

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<b>ppm</b>	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 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.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ DL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

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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