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September 13, 2012

Mr. Mark Horne  
Chevron Environmental Management Company  
6101 Bollinger Canyon Road  
San Ramon, California 94583-5186

**Subject: Second Quarter 2012 Groundwater Monitoring and Sampling Report  
Former Chevron Service Station No. 20-9335**  
1225 North 45<sup>th</sup> Street  
Seattle, Washington

Dear Mr. Horne:

SAIC Energy, Environment & Infrastructure, LLC (SAIC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the second quarter 2012 groundwater monitoring and sampling event at former Chevron Service Station No. 20-9335 (the site) located in Seattle, Washington (Figure 1).

**FIELD ACTIVITIES**

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on June 20, 2012. Gettler-Ryan collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in monitoring wells MW-6, MW-7, MW-8, MW-9, and MW-10. SPH were observed in monitoring well MW-7. Groundwater flow is to the southeast at a gradient of approximately 0.007 to 0.003 feet per foot. A potentiometric map is provided on Figure 2.

Groundwater samples were collected from four monitoring wells and submitted under chain of custody (COC) procedures to Eurofins Lancaster Laboratories, Inc. in Lancaster, Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics by Northwest Method NWTPH-Gx;
- TPH as diesel-range organics and TPH as heavy oil-range organics by Northwest Method NWTPH-Dx extended with silica-gel cleanup;
- Benzene, toluene, ethylbenzene, and total xylenes by United States Environmental Protection Agency (USEPA) Method 8021B; and
- Total Lead by USEPA Method 6020.

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

## RESULTS

Historical groundwater elevation data, SPH thickness data, and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B. Below is a summary of analytical results.

- SPH were detected in monitoring well MW-7 at a thickness of 0.15 feet, which is consistent with historical data.
- All analytes were below their respective Model Toxic Cleanup Act (MTCA) Method A cleanup levels or the laboratory reporting limits in all other wells.

The results of the second quarter 2012 sampling event indicate that petroleum-hydrocarbon constituent concentrations continue to fluctuate above and below MTCA Method A cleanup levels with seasonal changes in groundwater elevation.

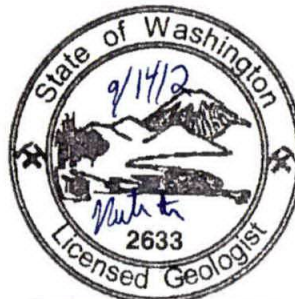
Gettler-Ryan will continue to perform groundwater monitoring and sampling on a quarterly basis. If you have any questions or comments, please contact me at (425) 482-3328 or via email at [ottemanr@saic.com](mailto:ottemanr@saic.com).

Sincerely,


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



Ruth Otteman, LG  
Project Manager



RUTH A. OTTEMAN



Kinga Kozłowska  
Environmental Scientist

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: Mr. Roger Nye – Ecology, Toxics Cleanup Program  
3190 160<sup>th</sup> Ave SE, Bellevue, WA 98008-5452

Mr. Larry Hard – Seattle Housing Authority  
120 Sixth Avenue North, Seattle, WA 98109-5003

Ms. Veronica Redstone – Bellwether  
1651 Bellevue Avenue, Seattle, WA 98122-2014

Project File

## **REPORT LIMITATIONS**

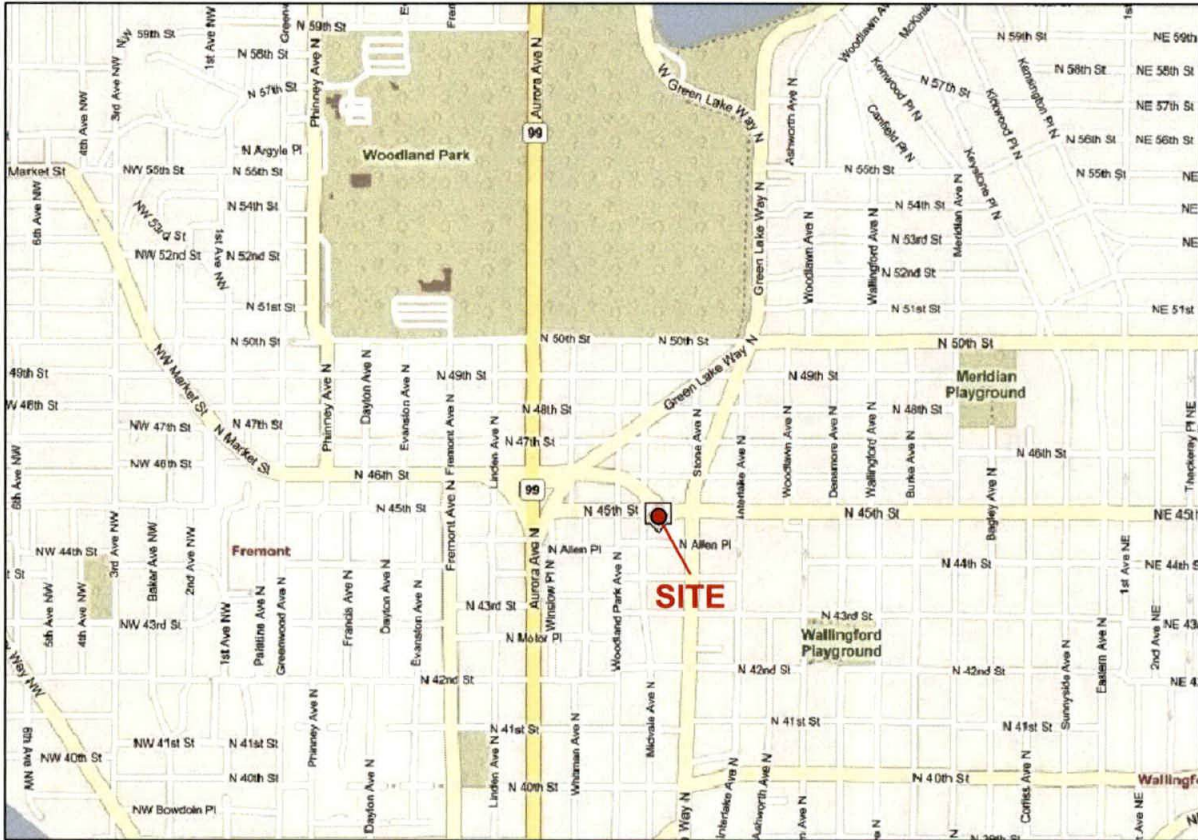
This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and that SAIC shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. SAIC has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of SAIC's site visits or site work and cannot be applied to conditions and features of which SAIC is unaware and has not had the opportunity to evaluate.

All sources of information on which SAIC has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by SAIC in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.



Maps Provided by Seattle.gov

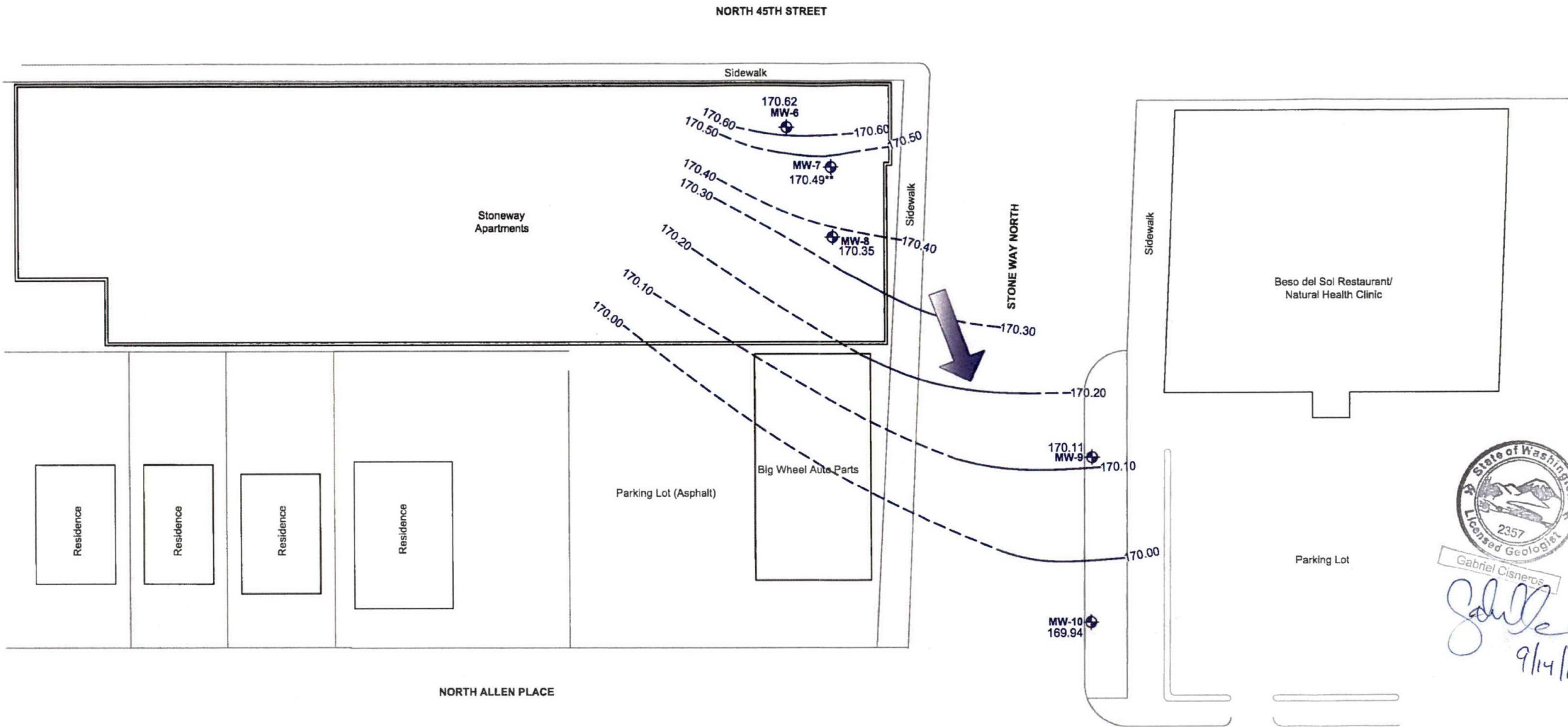



Former Chevron Service Station No. 20-9335  
1225 North 45th Street  
Seattle, Washington

FIGURE 1  
Vicinity Map



FILE NAME:  
209335 Vicinity Map.dwg

DATE:  
9/13/2012



  
 Gabriel Cisneros  
*Gabriel Cisneros*  
 9/14/12

**Legend**

-  Groundwater Monitoring Well
- 170.11 Groundwater Elevation in Feet
- 170.49\*\* Groundwater Elevation Corrected for the Presence of Separate Phase Hydrocarbons (SPH)
- 170.10— Groundwater Elevation Contour at an 0.1 Foot Interval (Dashed Where Inferred)
-  Approximate Groundwater Flow Direction at a Gradient of 0.007 to 0.003 feet per foot



|  |   |
|--|---|
| <p>Former Chevron Service Station No. 20-9335<br/>         1225 North 45th Street<br/>         Seattle, Washington</p> | <p><b>FIGURE 2</b><br/>         Potentiometric Map<br/>         June 20, 2012</p> <p>DATE: 8/1/2012 DRAWING: 209335_GW Contours.dwg</p> |
|--|---|



**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**  
**1225 North 45th Street**  
**Seattle, Washington**  
**Concentrations reported in µg/L**

| Well ID/<br>Date      | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.) | DTW<br>(ft.)    | SPHT<br>(ft.)   | GWE <sup>3</sup><br>(ft.) | TPH-DRO                                | TPH-HRO | TPH-GRO        | Benzene    | Toluene      | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead     |
|-----------------------|-----------------|---------------------------|--------------|-----------------|-----------------|---------------------------|--|---------|----------------|------------|--------------|-------------------|------------------|------|-------------|
| <b>MW-6</b>           |                 |                           |              |                 |                 |                           |  |         |                |            |              |                   |                  |      |             |
| 02/09/06              |                 | 197.18                    | --           | 36.74           | 0.00            | 160.44                    | <b>680</b>                             | 98      | <b>1,500</b>   | <0.5       | 0.7          | 1.2               | 37               | --   | --          |
| 05/03/07              |                 | 197.18                    | --           | 36.74           | 0.00            | 160.44                    | <b>1,000</b>                           | 130     | 380            | <b>29</b>  | 1            | 4                 | 30               | --   | --          |
| 06/16/09              |                 | 197.18                    | INACCESSIBLE |                 | --              | --                        | --                                     | --      | --             | --         | --           | --                | --               | --   | --          |
| 07/01/09              | NP              | 197.18                    | --           | 27.46           | 0.00            | 169.72                    | 270                                    | <70     | <50            | <0.5       | <0.5         | <0.5              | <1.5             | --   | <b>22.9</b> |
| 12/11/09              | NP              | 197.18                    | --           | 27.55           | 0.00            | 169.63                    | 35                                     | <69     | <50            | <0.5       | <0.5         | <0.5              | <1.5             | --   | 0.76        |
| 06/09/10              | NP              | 197.18                    | --           | 26.84           | 0.00            | 170.34                    | 360                                    | <340    | <b>5,900</b>   | <0.5       | <0.5         | <0.5              | 350              | --   | 13.2        |
| 11/19/10              | NP              | 197.18                    | --           | 26.97           | 0.00            | 170.21                    | 240                                    | 81      | 750            | <0.5       | <0.5         | <0.5              | 11               | --   | 3.7         |
| 06/21/11              | NP              | 197.18                    | --           | 25.77           | 0.00            | 171.41                    | 270                                    | 88      | <b>2,400</b>   | <0.5       | <0.5         | 0.6               | 9.2              | --   | 3.2         |
| 09/22/11              | NP              | 197.18                    | --           | 25.90           | 0.00            | 171.28                    | <29                                    | <69     | 660            | <0.5       | <0.5         | <0.5              | 4.1              | --   | 3.3         |
| 12/09/11              | NP              | 197.18                    | --           | 27.34           | 0.00            | 169.84                    | <29                                    | <69     | 64             | <b>140</b> | 0.50         | <0.5              | <1.5             | --   | 0.44        |
| 03/30/12              | NP              | 197.18                    | --           | 26.80           | 0.00            | 170.38                    | <30                                    | <69     | 90             | <0.5       | <0.5         | <0.5              | <1.5             | --   | 2.5         |
| 06/20/12              | NP              | 197.18                    | --           | 26.56           | 0.00            | 170.62                    | <30                                    | <70     | <50            | <0.5       | <0.5         | <0.5              | <1.5             | --   | <0.034      |
| <b>MW-7</b>           |                 |                           |              |                 |                 |                           |  |         |                |            |              |                   |                  |      |             |
| 02/09/06              |                 | 197.42                    | 37.87        | 38.17           | 0.30            | 159.49                    | --                                     | --      | --             | --         | --           | --                | --               | --   | --          |
| 05/03/07              |                 | 197.42                    | 26.55        | 27.80           | 0.00            | 169.62                    | --                                     | --      | --             | --         | --           | --                | --               | --   | --          |
| 06/16/09              |                 | 197.42                    | INACCESSIBLE |                 | --              | --                        | --                                     | --      | --             | --         | --           | --                | --               | --   | --          |
| 07/01/09 <sup>6</sup> |                 | 197.42                    | 27.39        | -- <sup>7</sup> | -- <sup>7</sup> | -- <sup>7</sup>           | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| 12/11/09 <sup>6</sup> |                 | 197.42                    | 27.50        | -- <sup>7</sup> | -- <sup>7</sup> | -- <sup>7</sup>           | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| 06/09/10 <sup>6</sup> |                 | 197.42                    | 27.03        | 28.20           | 1.17            | 170.16                    | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| 11/19/10              |                 | 197.42                    | 27.08        | 28.34           | 1.26            | 170.09                    | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| 06/21/11              |                 | 197.42                    | --           | 26.12           | 0.00            | 171.30                    | <b>11,000</b>                          | <1,800  | <b>150,000</b> | <b>45</b>  | <b>4,800</b> | <b>2,600</b>      | <b>18,000</b>    | --   | <b>310</b>  |
| 09/22/11              |                 | 197.42                    | --           | 26.25           | 0.00            | 171.17                    | <b>2,000</b>                           | <340    | <b>100,000</b> | <b>29</b>  | <b>4,300</b> | <b>1,900</b>      | <b>17,000</b>    | --   | <b>94.4</b> |
| 12/09/11              |                 | 197.42                    | 27.45        | 27.80           | 0.35            | 169.90                    | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| 03/30/12              |                 | 197.42                    | 27.15        | 27.35           | 0.20            | 170.23                    | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| 06/20/12              |                 | 197.42                    | 26.90        | 27.05           | 0.15            | 170.49                    | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |                |            |              | --                | --               | --   | --          |
| <b>MW-8</b>           |                 |                           |              |                 |                 |                           |  |         |                |            |              |                   |                  |      |             |
| 02/09/06              |                 | 197.35                    | --           | 36.74           | 0.00            | 160.61                    | 280                                    | <96     | 440            | <0.5       | 1.1          | 3.3               | 28               | --   | --          |
| 05/03/07              |                 | 197.35                    | --           | 36.74           | 0.00            | 160.61                    | <b>940</b>                             | <200    | <b>2,600</b>   | <0.5       | <0.5         | <0.5              | <0.5             | --   | --          |
| 06/16/09              |                 | 197.35                    | INACCESSIBLE |                 | --              | --                        | --                                     | --      | --             | --         | --           | --                | --               | --   | --          |
| 07/01/09              | NP              | 197.35                    | --           | 27.84           | 0.00            | 169.51                    | 390                                    | <700    | 430            | <0.5       | <0.5         | <0.5              | 2.2              | --   | 3.5         |
| 12/11/09              | NP              | 197.35                    | --           | 27.91           | 0.00            | 169.44                    | 300                                    | <69     | <50            | <0.5       | <0.5         | <0.5              | <1.5             | --   | 7.3         |

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**  
**1225 North 45th Street**  
**Seattle, Washington**  
**Concentrations reported in µg/L**

| Well ID/<br>Date    | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.) | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO | TPH-HRO | TPH-GRO      | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead     |
|---------------------|-----------------|---------------------------|--------------|--------------|---------------|---------------------------|---------|---------|--------------|---------|---------|-------------------|------------------|------|-------------|
| <b>MW-8 (cont.)</b> |                 |                           |              |              |               |                           |         |         |              |         |         |                   |                  |      |             |
| 06/09/10            | NP              | 197.35                    | --           | 27.21        | 0.00          | 170.14                    | 280     | 180     | 350          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>16.5</b> |
| 11/19/10            | NP              | 197.35                    | --           | 27.34        | 0.00          | 170.01                    | 320     | 120     | 94           | <0.5    | <0.5    | <0.5              | <1.5             | --   | 3.4         |
| 06/21/11            | NP              | 197.35                    | --           | 26.18        | 0.00          | 171.17                    | 94      | 150     | 54           | <0.5    | <0.5    | 1.0               | <1.5             | --   | 3.6         |
| 09/22/11            | NP              | 197.35                    | --           | 26.30        | 0.00          | 171.05                    | <29     | <68     | 140          | <0.5    | <0.5    | 2.9               | 1.70             | --   | 1.8         |
| 12/09/11            | NP              | 197.35                    | --           | 27.70        | 0.00          | 169.65                    | 70      | <69     | 320          | <2.0    | <2.0    | <0.5              | 3.0              | --   | 0.30        |
| 03/30/12            | NP              | 197.35                    | --           | 27.20        | 0.00          | 170.15                    | <30     | <70     | <b>2,000</b> | 3.0     | 3.9     | 45                | 120              | --   | 2.9         |
| 06/20/12            | NP              | 197.35                    | --           | 27.00        | 0.00          | 170.35                    | <30     | <70     | 170          | 0.7     | 0.7     | 1.3               | 2.2              | --   | 1.8         |
| <b>MW-9</b>         |                 |                           |              |              |               |                           |         |         |              |         |         |                   |                  |      |             |
| 05/03/07            |                 | 208.11                    | --           | 36.74        | 0.00          | 171.37                    | <400    | <500    | <50          | <0.5    | <0.5    | 4                 | 18               | --   | --          |
| 06/16/09            |                 | 208.11                    | --           | 38.72        | 0.00          | 169.39                    | --      | --      | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>19.3</b> |
| 07/01/09            | NP              | 208.11                    | --           | 38.03        | 0.00          | 170.08                    | <31     | <71     | --           | --      | --      | --                | --               | --   | --          |
| 12/11/09            | NP              | 208.11                    | --           | 38.86        | 0.00          | 169.25                    | 76      | <69     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 14.5        |
| 06/09/10            | NP              | 208.11                    | --           | 38.17        | 0.00          | 169.94                    | 42      | 110     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>21.2</b> |
| 11/19/10            | NP              | 208.11                    | --           | 38.23        | 0.00          | 169.88                    | <29     | 130     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>18.7</b> |
| 06/21/11            | NP              | 208.11                    | --           | 37.15        | 0.00          | 170.96                    | <30     | <70     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 4.7         |
| 09/22/11            | NP              | 208.11                    | --           | 37.25        | 0.00          | 170.86                    | <300    | <700    | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 12.4        |
| 12/09/11            | NP              | 208.11                    | --           | 38.66        | 0.00          | 169.45                    | <29     | <68     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 2.8         |
| 03/30/12            | NP              | 208.11                    | --           | 29.60        | 0.00          | 178.51                    | <29     | <68     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>114</b>  |
| 06/20/12            | NP              | 208.11                    | --           | 38.00        | 0.00          | 170.11                    | <30     | <70     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 3.8         |
| <b>MW-10</b>        |                 |                           |              |              |               |                           |         |         |              |         |         |                   |                  |      |             |
| 05/03/07            |                 | 207.29                    | --           | 36.74        | 0.00          | 170.55                    | <0.5    | <0.5    | <0.5         | <0.5    | <0.5    | <0.5              | <0.5             | --   | --          |
| 06/16/09            |                 | 207.29                    | INACCESSIBLE | --           | --            | --                        | --      | --      | --           | --      | --      | --                | --               | --   | --          |
| 07/01/09            | NP              | 207.29                    | --           | 38.72        | 0.00          | 168.57                    | <30     | <69     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 10.9        |
| 12/11/09            | NP              | 207.29                    | --           | 35.91        | 0.00          | 171.38                    | 49      | <69     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 13.4        |
| 06/09/10            | NP              | 207.29                    | --           | 37.48        | 0.00          | 169.81                    | 50      | 88      | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 7.2         |
| 11/19/10            | NP              | 207.29                    | --           | 37.53        | 0.00          | 169.76                    | <29     | 74      | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>18.8</b> |
| 06/21/11            | NP              | 207.29                    | --           | 36.46        | 0.00          | 170.83                    | <31     | 180     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 5.7         |
| 09/22/11            | NP              | 207.29                    | --           | 36.60        | 0.00          | 170.69                    | <300    | <700    | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 6.6         |
| 12/09/11            | NP              | 207.29                    | --           | 35.71        | 0.00          | 171.58                    | <29     | <69     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 2.1         |
| 03/30/12            | NP              | 207.29                    | --           | 29.80        | 0.00          | 177.49                    | <30     | <69     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | <b>110</b>  |
| 06/20/12            | NP              | 207.29                    | --           | 37.35        | 0.00          | 169.94                    | <31     | <71     | <50          | <0.5    | <0.5    | <0.5              | <1.5             | --   | 0.23        |



**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**  
**1225 North 45th Street**  
**Seattle, Washington**  
Concentrations reported in µg/L

| Well ID/<br>Date | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.) | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO                                | TPH-HRO | TPH-GRO       | Benzene     | Toluene      | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead |
|------------------|-----------------|---------------------------|--------------|--------------|---------------|---------------------------|--|---------|---------------|-------------|--------------|-------------------|------------------|------|---------|
| <b>MW-1</b>      |                 |                           |              |              |               |                           |  |         |               |             |              |                   |                  |      |         |
| 10/11/00         |                 | 97.95                     | --           | 34.50        | --            | 63.45                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 12/16/00         |                 | 97.95                     | --           | 35.91        | 0.00          | 62.04                     | ND                                     | ND      | 74.4          | ND          | ND           | ND                | ND               | ND   | ND      |
| 03/26/01         |                 | 97.95                     | --           | 36.54        | 0.00          | 61.41                     | ND                                     | ND      | ND            | ND          | ND           | ND                | ND               | ND   | --      |
| 06/25/01         |                 | 97.95                     | --           | 36.78        | 0.00          | 61.17                     | <281                                   | <842    | <50.0         | <0.500      | <0.500       | <0.500            | <1.00            | --   | --      |
| 09/24/01         |                 | 97.95                     | --           | 37.14        | 0.00          | 60.81                     | <250                                   | <500    | <50.0         | <0.500      | <0.500       | <0.500            | <1.00            | --   | --      |
| 12/13/01         |                 | 97.95                     | --           | 37.25        | 0.00          | 60.70                     | <250                                   | <500    | <80.0         | <0.500      | <0.500       | <0.500            | <1.00            | --   | --      |
| 03/08/02         | NP              | 97.95                     | --           | 36.79        | 0.00          | 61.16                     | <250                                   | <750    | <50           | <0.50       | <0.50        | <0.50             | <1.5             | --   | --      |
| 05/29/02         |                 | 97.95                     | --           | 36.44        | 0.00          | 61.51                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 09/16/02         | NP              | 97.95                     | --           | 36.71        | 0.00          | 61.24                     | <250                                   | <250    | <50           | <0.50       | <0.50        | <0.50             | <1.5             | --   | --      |
| 12/05/02         |                 | 97.95                     | --           | 37.09        | 0.00          | 60.86                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 03/04/03         | NP              | 97.95                     | --           | 37.26        | 0.00          | 60.69                     | <250                                   | <250    | 100           | <0.50       | <0.50        | <0.50             | <3.0             | --   | --      |
| 06/03/03         |                 | 97.95                     | --           | 37.09        | 0.00          | 60.86                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 10/27/03         |                 | 97.95                     | --           | 37.42        | 0.00          | 60.53                     | NOT SAMPLED DUE TO INSUFFICIENT WATER  |         |               | --          | --           | --                | --               | --   | --      |
| 03/31/04         | NP              | 97.95                     | --           | 37.12        | 0.00          | 60.83                     | <800                                   | <1,000  | <50           | <0.5        | <0.5         | <0.5              | <1.5             | --   | --      |
| 06/28/04         |                 | 97.95                     | --           | 37.14        | 0.00          | 60.81                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 09/29/04         |                 | 97.95                     | --           | 37.50        | 0.00          | 60.45                     | NOT SAMPLED DUE TO INSUFFICIENT WATER  |         |               | --          | --           | --                | --               | --   | --      |
| 01/04/05         |                 | 97.95                     | --           | 37.61        | 0.00          | 60.34                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| <b>ABANDONED</b> |                 |                           |              |              |               |                           |  |         |               |             |              |                   |                  |      |         |
| <b>MW-2</b>      |                 |                           |              |              |               |                           |  |         |               |             |              |                   |                  |      |         |
| 10/11/00         |                 | 98.70                     | --           | 34.50        | --            | 64.20                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 12/16/00         |                 | 98.70                     | --           | 36.46        | 0.00          | 62.24                     | <b>1,000</b>                           | ND      | <b>28,100</b> | <b>283</b>  | <b>2,560</b> | 693               | <b>4,020</b>     | ND   | 0.00194 |
| 03/26/01         |                 | 98.70                     | --           | 37.12        | 0.00          | 61.58                     | <b>1,180</b>                           | ND      | <b>17,000</b> | <b>143</b>  | <b>1,450</b> | 378               | <b>2,180</b>     | ND/  | --      |
| 06/25/01         |                 | 98.70                     | --           | 37.37        | 0.00          | 61.33                     | 418                                    | <750    | <b>11,700</b> | <b>92.3</b> | 547          | 181               | <b>1,010</b>     | --   | --      |
| 09/24/01         |                 | 98.70                     | --           | 37.72        | 0.00          | 60.98                     | <b>4,840</b>                           | <557    | <b>22,100</b> | <b>120</b>  | <b>1,380</b> | 658               | <b>4,100</b>     | --   | --      |
| 12/13/01         |                 | 98.70                     | --           | 37.89        | 0.00          | 60.81                     | <b>5,540</b>                           | <500    | <b>84,000</b> | <b>185</b>  | <b>3,960</b> | <b>1,590</b>      | <b>9,950</b>     | --   | --      |
| 03/08/02         |                 | 98.70                     | 37.24        | 38.00        | 0.76          | 61.31                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |               | --          | --           | --                | --               | --   | --      |
| 05/29/02         |                 | 98.70                     | 36.81        | 37.54        | 0.73          | 61.74                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |               | --          | --           | --                | --               | --   | --      |
| 09/16/02         |                 | 98.70                     | 37.19        | 37.61        | 0.42          | 61.43                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |               | --          | --           | --                | --               | --   | --      |
| 10/15/02         |                 | 98.70                     | 37.24        | 37.68        | 0.44          | 61.37                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 11/22/02         |                 | 98.70                     | 37.12        | 37.63        | 0.51          | 61.48                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 12/05/02         |                 | 98.70                     | 37.51        | 38.10        | 0.59          | 61.07                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |               | --          | --           | --                | --               | --   | --      |

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**  
**1225 North 45th Street**  
**Seattle, Washington**  
**Concentrations reported in µg/L**

| Well ID/<br>Date    | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.)                            | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO                                | TPH-HRO | TPH-GRO | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead |    |
|---------------------|-----------------|---------------------------|---|--------------|---------------|---------------------------|--|---------|---------|---------|---------|-------------------|------------------|------|---------|----|
| <b>MW-2 (cont.)</b> |                 |                           |   |              |               |                           |  |         |         |         |         |                   |                  |      |         |    |
| 01/28/03            |                 | 98.70                     | 36.77                                   | 37.33        | 0.56          | 61.82                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 02/13/03            |                 | 98.70                     | 37.44                                   | 38.02        | 0.58          | 61.14                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 03/04/03            |                 | 98.70                     | INACCESSIBLE - VEHICLE PARKED OVER WELL |              |               |                           |  | --      | --      | --      | --      | --                | --               | --   | --      | -- |
| 04/21/03            |                 | 98.70                     | 37.21                                   | 37.78        | 0.57          | 61.38                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 05/08/03            |                 | 98.70                     | 37.43                                   | 37.94        | 0.51          | 61.17                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 06/03/03            |                 | 98.70                     | 37.37                                   | 37.91        | 0.54          | 61.22                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |    |
| 07/06/03            |                 | 98.70                     | 36.96                                   | 37.51        | 0.55          | 61.63                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 08/18/03            |                 | 98.70                     | 37.49                                   | 38.02        | 0.53          | 61.10                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 10/27/03            |                 | 98.70                     | 37.54                                   | 39.98        | 2.44          | 60.67                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |    |
| 11/17/03            |                 | 98.70                     | 37.10                                   | 37.58        | 0.48          | 61.50                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 12/31/03            |                 | 98.70                     | 36.18                                   | 38.19        | 2.01          | 62.12                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 02/09/04            |                 | 98.70                     | 37.00                                   | 37.49        | 0.49          | 61.60                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 03/04/04            |                 | 98.70                     | 35.85                                   | 37.06        | 1.21          | 62.61                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 03/31/04            |                 | 98.70                     | 37.32                                   | 39.05        | 1.73          | 61.03                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |    |
| 06/28/04            |                 | 98.70                     | 37.32                                   | 39.05        | 1.73          | 61.03                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |    |
| 09/11/04            |                 | 98.70                     | 37.65                                   | 39.10        | 1.45          | 60.76                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 09/29/04            |                 | 98.70                     | 37.71                                   | 39.39        | 1.68          | 60.65                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |    |
| 11/22/04            |                 | 98.70                     | 36.89                                   | 38.16        | 1.27          | 61.56                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 01/04/05            |                 | 98.70                     | 37.88                                   | 39.80        | 1.92          | 60.44                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |    |
| 01/14/05            |                 | 98.70                     | 37.49                                   | 39.02        | 1.53          | 60.90                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| ABANDONED           |                 |                           |   |              |               |                           |  |         |         |         |         |                   |                  |      |         |    |
| <b>MW-3</b>         |                 |                           |   |              |               |                           |  |         |         |         |         |                   |                  |      |         |    |
| 10/11/00            |                 | 98.76                     | --                                      | 34.00        | --            | 64.76                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |    |
| 12/16/00            |                 | 98.76                     | --                                      | 36.39        | 0.00          | 62.37                     | ND                                     | ND      | ND      | ND      | 0.612   | ND                | 1.95             | ND   | ND      |    |
| 03/26/01            |                 | 98.76                     | --                                      | 37.05        | 0.00          | 61.71                     | ND                                     | ND      | ND      | ND      | ND      | ND                | ND               | ND   | --      |    |
| 06/25/01            |                 | 98.76                     | --                                      | 37.29        | 0.00          | 61.47                     | <250                                   | <750    | <50.0   | <0.500  | <0.500  | <0.500            | <1.00            | --   | --      |    |
| 09/24/01            |                 | 98.76                     | --                                      | 37.64        | 0.00          | 61.12                     | <250                                   | <500    | <50.0   | <0.500  | <0.500  | <0.500            | <1.00            | --   | --      |    |
| 12/13/01            |                 | 98.76                     | --                                      | 37.78        | 0.00          | 60.98                     | <250                                   | <500    | <80.0   | <0.500  | <0.500  | <0.500            | <1.00            | --   | --      |    |
| 03/08/02            | NP              | 98.76                     | --                                      | 37.28        | 0.00          | 61.48                     | <250                                   | <750    | 320     | <0.50   | 0.64    | 2.1               | 15               | --   | --      |    |
| 05/29/02            |                 | 98.76                     | --                                      | 36.92        | 0.00          | 61.84                     | SAMPLED SEMI-ANNUALLY                  |         |         |         |         | --                | --               | --   | --      |    |
| 09/16/02            | NP              | 98.76                     | --                                      | 37.21        | 0.00          | 61.55                     | <250                                   | <250    | <50     | <0.50   | <0.50   | <0.50             | <1.5             | --   | --      |    |

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**  
**1225 North 45th Street**  
**Seattle, Washington**  
Concentrations reported in µg/L

| Well ID/<br>Date    | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.) | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO                                | TPH-HRO | TPH-GRO       | Benzene     | Toluene      | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead |
|---------------------|-----------------|---------------------------|--------------|--------------|---------------|---------------------------|--|---------|---------------|-------------|--------------|-------------------|------------------|------|---------|
| <b>MW-3 (cont.)</b> |                 |                           |              |              |               |                           |  |         |               |             |              |                   |                  |      |         |
| 12/05/02            |                 | 98.76                     | --           | 37.58        | 0.00          | 61.18                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 03/04/03            | NP              | 98.76                     | --           | 37.79        | 0.00          | 60.97                     | <250                                   | <250    | <50           | <0.50       | <0.50        | <0.50             | <1.5             | --   | --      |
| 06/03/03            |                 | 98.76                     | --           | 37.68        | 0.00          | 61.08                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 10/27/03            | NP              | 98.76                     | --           | 38.00        | 0.00          | 60.76                     | <250                                   | <250    | <50           | <0.5        | <0.5         | <0.5              | <1.5             | --   | --      |
| 03/31/04            | NP              | 98.76                     | --           | 37.65        | 0.00          | 61.11                     | <800                                   | <1,000  | <50           | <0.5        | <0.5         | <0.5              | <1.5             | --   | --      |
| 06/28/04            |                 | 98.76                     | --           | 37.68        | 0.00          | 61.08                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| 09/29/04            | NP              | 98.76                     | --           | 38.01        | 0.00          | 60.75                     | <250                                   | <250    | <50           | <0.5        | <0.5         | <0.5              | <1.5             | --   | --      |
| 01/04/05            |                 | 98.76                     | --           | 38.19        | 0.00          | 60.57                     | SAMPLED SEMI-ANNUALLY                  |         |               | --          | --           | --                | --               | --   | --      |
| ABANDONED           |                 |                           |              |              |               |                           |  |         |               |             |              |                   |                  |      |         |
| <b>MW-4</b>         |                 |                           |              |              |               |                           |  |         |               |             |              |                   |                  |      |         |
| 10/11/00            |                 | 98.52                     | --           | 35.00        | --            | 63.52                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 12/16/00            |                 | 98.52                     | --           | 36.35        | 0.00          | 62.17                     | ND                                     | ND      | <b>58,200</b> | <b>326</b>  | <b>5,520</b> | <b>1,430</b>      | <b>8,520</b>     | ND   | 0.0123  |
| 03/26/01            |                 | 98.52                     | --           | 37.00        | 0.00          | 61.52                     | 266                                    | ND      | <b>27,200</b> | <b>178</b>  | <b>2,160</b> | <b>785</b>        | <b>4,160</b>     | ND   | --      |
| 06/25/01            |                 | 98.52                     | --           | 37.25        | 0.00          | 61.27                     | <250                                   | <750    | <b>12,300</b> | <b>69.0</b> | 654          | 416               | <b>1,910</b>     | --   | --      |
| 09/24/01            |                 | 98.52                     | --           | 37.60        | 0.00          | 60.92                     | <250                                   | <500    | <b>4,130</b>  | <b>30.1</b> | 154          | 197               | 684              | --   | --      |
| 12/13/01            |                 | 98.52                     | --           | 37.72        | 0.00          | 60.80                     | <250                                   | <500    | <b>5,490</b>  | <b>30.3</b> | 175          | 177               | 679              | --   | --      |
| 03/08/02            | NP              | 98.52                     | --           | 38.36        | 0.00          | 60.16                     | <250                                   | <750    | <b>9,000</b>  | <50         | 150          | 170               | 710              | --   | --      |
| 05/29/02            | NP              | 98.52                     | --           | 36.86        | 0.00          | 61.66                     | <250                                   | <750    | <b>6,700</b>  | <b>22</b>   | 150          | 190               | 780              | --   | --      |
| 08/07/02            |                 | 98.52                     | --           | 36.92        | 0.00          | 61.60                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 09/16/02            | NP              | 98.52                     | --           | 37.16        | 0.00          | 61.36                     | <250                                   | <250    | <b>7,500</b>  | <b>46</b>   | 230          | 240               | 630              | --   | --      |
| 12/05/02            | NP              | 98.52                     | --           | 37.53        | 0.00          | 60.99                     | <250                                   | <250    | <b>14,000</b> | <b>73</b>   | 400          | 540               | <b>1,500</b>     | --   | --      |
| 03/04/03            |                 | 98.52                     | 36.68        | 36.71        | 0.03          | 61.83                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |               |             |              | --                | --               | --   | --      |
| 06/03/03            |                 | 98.52                     | 36.59        | 36.63        | 0.04          | 61.92                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |               |             |              | --                | --               | --   | --      |
| 07/06/03            |                 | 98.52                     | 36.90        | 36.93        | 0.03          | 61.61                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 08/18/03            |                 | 98.52                     | 36.76        | 36.80        | 0.04          | 61.75                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 10/27/03            | NP              | 98.52                     | --           | 37.96        | 0.00          | 60.56                     | <400                                   | <500    | <b>2,200</b>  | <b>16</b>   | 55           | 76                | 170              | --   | --      |
| 11/17/03            |                 | 98.52                     | 36.34        | 36.37        | 0.03          | 62.17                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 12/31/03            |                 | 98.52                     | --           | 36.88        | 0.00          | 61.64                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 02/09/04            |                 | 98.52                     | 36.14        | 36.17        | 0.03          | 62.37                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 03/04/04            |                 | 98.52                     | --           | 36.74        | 0.00          | 61.78                     | --                                     | --      | --            | --          | --           | --                | --               | --   | --      |
| 03/31/04            | NP              | 98.52                     | --           | 37.59        | 0.00          | 60.93                     | <250                                   | <250    | <b>3,900</b>  | <b>14</b>   | 96           | 110               | 340              | --   | --      |

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**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**  
**1225 North 45th Street**  
**Seattle, Washington**  
**Concentrations reported in µg/L**

| Well ID/<br>Date    | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.)        | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO                                | TPH-HRO | TPH-GRO | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead |
|---------------------|-----------------|---------------------------|---------------------|--------------|---------------|---------------------------|--|---------|---------|---------|---------|-------------------|------------------|------|---------|
| <b>MW-4 (cont.)</b> |                 |                           |                     |              |               |                           |  |         |         |         |         |                   |                  |      |         |
| 06/28/04            | NP              | 98.52                     | --                  | 37.54        | 0.00          | 60.98                     | <250                                   | <250    | 1,600   | 8.5     | 15      | 59                | 110              | --   | --      |
| 09/11/04            |                 | 98.52                     | 37.78               | 37.81        | 0.03          | 60.73                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 09/29/04            | NP              | 98.52                     | --                  | 37.86        | 0.00          | 60.66                     | <250                                   | <250    | 1,500   | 18      | 40      | 76                | 170              | --   | --      |
| 11/22/04            |                 | 98.52                     | --                  | 36.81        | 0.00          | 61.71                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 01/04/05            | NP              | 98.52                     | --                  | 38.11        | 0.00          | 60.41                     | 1,600                                  | <250    | 1,600   | 10      | 13      | 60                | 110              | --   | --      |
| 01/14/05            |                 | 98.52                     | --                  | 37.58        | 0.00          | 60.94                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| ABANDONED           |                 |                           |                     |              |               |                           |  |         |         |         |         |                   |                  |      |         |
| <b>MW-5</b>         |                 |                           |                     |              |               |                           |  |         |         |         |         |                   |                  |      |         |
| 10/11/00            |                 | 99.42                     | --                  | 34.50        | --            | 64.92                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 12/16/00            |                 | 99.42                     | --                  | 37.18        | 0.00          | 62.24                     | 5,080                                  | ND      | 146,000 | ND      | 15,100  | 4,160             | 24,100           | ND   | 0.0200  |
| 03/26/01            |                 | 99.42                     | --                  | 37.91        | 0.00          | 61.51                     | 77,900                                 | ND      | 149,000 | 256     | 10,600  | 4,000             | 24,200           | ND   | --      |
| 06/25/01            |                 | 99.42                     | --                  | 38.14        | 0.00          | 61.28                     | 109,000                                | <18,100 | 127,000 | 210     | 9,580   | 3,730             | 21,500           | --   | --      |
| 09/24/01            |                 | 99.42                     | 38.40               | 38.44        | 0.04          | 61.01                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 12/13/01            |                 | 99.42                     | 38.55               | 38.59        | 0.04          | 60.86                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 03/08/02            |                 | 99.42                     | 37.96               | 38.46        | 0.50          | 61.36                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 05/29/02            |                 | 99.42                     | 37.60               | 38.05        | 0.45          | 61.73                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 08/07/02            |                 | 99.42                     | 37.73               | 38.12        | 0.39          | 61.61                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 09/16/02            |                 | 99.42                     | 38.00               | 38.39        | 0.39          | 61.34                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 10/15/02            |                 | 99.42                     | 38.09               | 38.47        | 0.38          | 61.25                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 11/22/02            |                 | 99.42                     | 37.84               | 38.26        | 0.42          | 61.50                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 12/05/02            |                 | 99.42                     | 38.42               | 38.78        | 0.36          | 60.93                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 01/28/03            |                 | 99.42                     | 37.88               | 38.24        | 0.36          | 61.47                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 02/13/03            |                 | 99.42                     | 38.33               | 38.68        | 0.35          | 61.02                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 03/04/03            |                 | 99.42                     | 37.54               | 37.89        | 0.35          | 61.81                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 04/21/03            |                 | 99.42                     | 37.96               | 38.29        | 0.33          | 61.39                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 05/08/03            |                 | 99.42                     | 38.50               | 38.82        | 0.32          | 60.86                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 06/03/03            |                 | 99.42                     | 37.42               | 37.76        | 0.34          | 61.93                     | NOT SAMPLED DUE TO THE PRESENCE OF SPH |         |         |         |         | --                | --               | --   | --      |
| 07/06/03            |                 | 99.42                     | 37.77               | 38.11        | 0.34          | 61.58                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 08/18/03            |                 | 99.42                     | 38.54               | 38.86        | 0.32          | 60.82                     | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |
| 10/27/03            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --                                     | --      | --      | --      | --      | --                | --               | --   | --      |

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**

1225 North 45th Street  
 Seattle, Washington

Concentrations reported in µg/L

| Well ID/<br>Date    | Purge<br>Method | TOC <sup>2</sup><br>(ft.) | DTP<br>(ft.)        | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead |
|---------------------|-----------------|---------------------------|---------------------|--------------|---------------|---------------------------|---------|---------|---------|---------|---------|-------------------|------------------|------|---------|
| <b>MW-5 (cont.)</b> |                 |                           |                     |              |               |                           |         |         |         |         |         |                   |                  |      |         |
| 11/17/03            |                 | 99.42                     | 37.87               | 38.17        | 0.30          | 61.49                     | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 12/31/03            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 02/09/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 03/04/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 03/31/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 06/28/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 09/11/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 09/29/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 11/22/04            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 01/04/05            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| 01/14/05            |                 | 99.42                     | WELL DRY/OBSTRUCTED |              |               | --                        | --      | --      | --      | --      | --      | --                | --               | --   | --      |
| <b>ABANDONED</b>    |                 |                           |                     |              |               |                           |         |         |         |         |         |                   |                  |      |         |
| <b>TRIP BLANK</b>   |                 |                           |                     |              |               |                           |         |         |         |         |         |                   |                  |      |         |
| 12/16/00            |                 | --                        | --                  | --           | --            | --                        | --      | --      | ND      | ND      | ND      | ND                | ND               | ND   | --      |
| 03/26/01            |                 | --                        | --                  | --           | --            | --                        | --      | --      | ND      | ND      | ND      | ND                | ND               | ND   | --      |
| 06/25/01            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50.0   | <0.500  | <0.500  | <0.500            | <1.00            | --   | --      |
| 09/24/01            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50.0   | <0.500  | <0.500  | <0.500            | <1.00            | --   | --      |
| 12/13/01            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <80.0   | <0.500  | <0.500  | <0.500            | <1.00            | --   | --      |
| 03/08/02            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.50   | <0.50   | <0.50             | <1.5             | --   | --      |
| 05/29/02            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.50   | <0.50   | <0.50             | <1.5             | --   | --      |
| 09/16/02            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.50   | <0.50   | <0.50             | <1.5             | --   | --      |
| 12/05/02            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.50   | <0.50   | <0.50             | <1.5             | --   | --      |
| 03/04/03            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.50   | <0.50   | <0.50             | <1.5             | --   | --      |
| 10/27/03            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| <b>QA</b>           |                 |                           |                     |              |               |                           |         |         |         |         |         |                   |                  |      |         |
| 03/31/04            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| 06/28/04            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| 09/29/04            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| 01/04/05            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| 06/16/09            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| 07/01/09            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |
| 12/11/09            |                 | --                        | --                  | --           | --            | --                        | --      | --      | <50     | <0.5    | <0.5    | <0.5              | <1.5             | --   | --      |

**TABLE 1**  
**GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS<sup>1</sup>**  
**FORMER CHEVRON SERVICE STATION NO. 20-9335**

1225 North 45th Street  
 Seattle, Washington  
 Concentrations reported in µg/L

| Well ID/<br>Date                      | Purge<br>Method | TOC <sup>2</sup><br>(ft.)               | DTP<br>(ft.) | DTW<br>(ft.) | SPHT<br>(ft.) | GWE <sup>3</sup><br>(ft.) | TPH-DRO                          | TPH-HRO | TPH-GRO   | Benzene                 | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE | T. Lead    |
|---------------------------------------|-----------------|---|--------------|--------------|---------------|---------------------------|----------------------------------|---------|-----------|-------------------------|---------|-------------------|------------------|------|------------|
| <b>QA (cont.)</b>                     |                 |   |              |              |               |                           |                                  |         |           |                         |         |                   |                  |      |            |
| 06/09/10                              |                 | --                                      | --           | --           | --            | --                        | --                               | --      | <50       | <0.5                    | <0.5    | <0.5              | <1.5             | --   | --         |
| 11/19/10                              |                 | --                                      | --           | --           | --            | --                        | --                               | --      | <50       | <0.5                    | <0.5    | <0.5              | <1.5             | --   | --         |
| 06/21/11                              |                 | --                                      | --           | --           | --            | --                        | --                               | --      | <50       | <0.5                    | <0.5    | <0.5              | <1.5             | --   | --         |
| 09/22/11                              |                 | --                                      | --           | --           | --            | --                        | --                               | --      | <50       | <0.5                    | <0.5    | <0.5              | <1.5             | --   | --         |
| 12/09/11                              |                 | --                                      | --           | --           | --            | --                        | --                               | --      | <50       | <0.5                    | <0.5    | <0.5              | <1.5             | --   | --         |
| 03/30/12                              |                 | --                                      | --           | --           | --            | --                        | --                               | --      | <50       | <0.5                    | <0.5    | <0.5              | <1.5             | --   | --         |
| 06/20/12                              |                 | QA Vials Not Received by the Laboratory |              |              |               |                           |                                  |         |           |                         |         |                   |                  |      |            |
| Standard Laboratory Reporting Limits: |                 |   |              |              |               |                           | --                               | --      | 50        | 0.5                     | 0.5     | 0.5               | 1.5              | --   | 0.00100    |
| MTCA Method A Cleanup Levels:         |                 |   |              |              |               |                           | 500                              | 500     | 800/1,000 | 5                       | 1,000   | 700               | 1,000            | 20   | 15         |
| Current Method <sup>5</sup> :         |                 |   |              |              |               |                           | NWTPH-Dx + Extended <sup>4</sup> |         |           | NWTPH-Gx and USEPA 8021 |         |                   |                  |      | USEPA 6020 |

**Abbreviations:**

DTP = Depth to Product

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

LNAPL = Light Non-Aqueous Phase Liquid

MTBE = Methyl Tertiary Butyl Ether

MTCA = Model Toxics Control Act Cleanup Regulations

ND = Not Detected

NP = No Purge

QA = Quality Assurance/Trip Blank

SPH = Separate Phase Hydrocarbon

SPHT = Separate Phase Hydrocarbon Thickness

T. Lead = Total Lead

TOC = Top of Casing

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

USEPA = United States Environmental Protection Agency

µg/L = Micrograms per liter

-- = Not Measured/Not Analyzed

**Notes:**

1 Analytical results in bold font indicate concentrations exceed MTCA Method A Cleanup Levels.

2 TOC elevations have been surveyed in feet relative to the 1988 North American Vertical Datum. MW-1 through MW-5 TOC Elevation are reference to an arbitrary benchmark of 100 feet.

3 When SPH is present, GWE has been corrected using the following formula:  $GWE = [(TOC - DTW) + (SPHT \times 0.80)]$ .

4 Analyzed with silica-gel cleanup.

5 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.

6 Skimmer in well.

7 Interface probe could not detect LNAPL/Groundwater Interface, unable to gauge hydrocarbon thickness and calculate corrected GWE.

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

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# GETTLER-RYAN INC.

## TRANSMITTAL

June 26, 2012  
G-R #386750

TO: Ms. Ruth A. Ottemian  
SAIC  
18912 North Creek Parkway, Suite 101  
Bothell, WA 98011

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

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

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES  | DESCRIPTION   |
|---------|---|
| VIA PDF | Groundwater Monitoring and Sampling Data Package<br>Second Quarter Event of June 20, 2012 |

### 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/209335





# GETTLER - RYAN INC.

## CHEVRON - SITE CHECK LIST

Facility#: Chevron #209335

Date: 6-20-12

Address: 1225 N. 45Th Street

City/St.: Seattle, WA

Status of Site: WALGREENS SIDEWALK & PARKING GARAGE

### DRUMS:

Please list below ALL DRUMS @ site: i.e., drum description, condition, labeling, contents, location of drum:



| # | Description | Condition | Labeling | Contents | Location |
|---|-------------|-----------|----------|----------|----------|
|   | No Drums    |           |          |          |          |
|   |             |           |          |          |          |
|   |             |           |          |          |          |
|   |             |           |          |          |          |

### WELLS:

Please check the condition of ALL WELLS @ site: i.e., well box condition, gaskets, bolts, well plug, well lock, etc.:

| Well ID | Gaskets<br>(M) Missing<br>(R) Replaced | Bolts<br>(M) Missing<br>(R) Replaced | Well Plug<br>Y/N | Well Lock<br>Y/N | Well Box<br>Manufacturer/Size/# of Bolts | Other |
|---------|--|--------------------------------------|------------------|------------------|--|-------|
| MW-6    | GOOD                                   | GOOD                                 | GOOD             | GOOD             | 8" MORRIS x 3                            |       |
| MW-7    | GOOD                                   | GOOD                                 | GOOD             | GOOD             | 8" MORRIS x 3                            |       |
| MW-8    | GOOD                                   | GOOD                                 | GOOD             | GOOD             | 8" MORRIS x 3                            |       |
| MW-9    | R                                      | GOOD                                 | R                | GOOD             | 8" MORRIS x 3                            |       |
| MW-10   | R                                      | GOOD                                 | R                | GOOD             | 8" MORRIS x 3                            |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |
|         |  |                                      |                  |                  |  |       |

Additional Comments/Observations: \_\_\_\_\_

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). 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. 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. 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. 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 #209335 Job Number: 386750  
 Site Address: 1225 N. 45Th Street Event Date: 6.20.12 (inclusive)  
 City: Seattle, WA Sampler: JR

Well ID: MW-10 Date Monitored: 6.20.12

Well Diameter: 2

Total Depth: 21.20 ft. Volume Factor (VF) 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38  
4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80

Depth to Water: 26.56 ft.  Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.64 xVF - = - x3 case volume = Estimated Purge Volume: - gal.

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: \_\_\_\_\_

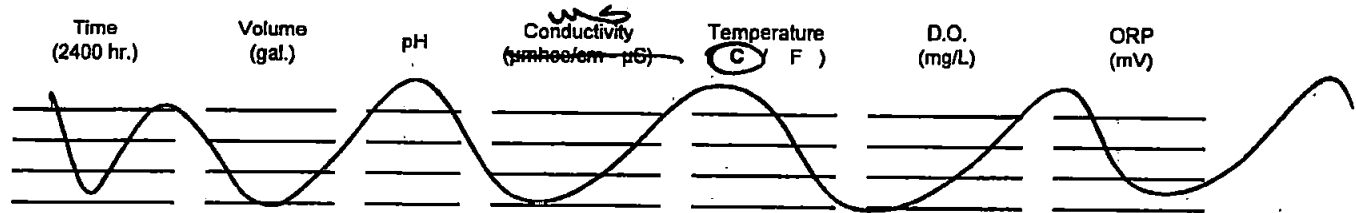
### Purge Equipment:

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

### Sampling Equipment:

- Disposable Bailer \_\_\_\_\_
- Pressure Bailer \_\_\_\_\_
- Metal Filters \_\_\_\_\_
- Peristaltic Pump \_\_\_\_\_
- QED Bladder Pump \_\_\_\_\_
- Other: \_\_\_\_\_

Start Time (purge): 1230 Weather Conditions: Sunny  
 Sample Time/Date: 1245 6.20.12 Water Color: clear Odor: (Y) / N MILD  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 26.56



### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER      | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES            |
|-----------|--------------------|---------|---------------|------------|---------------------|
| MW-10     | 3 x vov vial       | YES     | HCL           | LANCASTER  | NWTPH-Gx/BTEX(8021) |
|           | 2 x 1 liter ambers | YES     | HCL           | LANCASTER  | NWTPH-Dx w/sgc      |
|           | 1 x 250ml poly     | YES     | HNO3          | LANCASTER  | TOTAL LEAD (6020)   |
|           |                    |         |               |            |                     |
|           |                    |         |               |            |                     |
|           |                    |         |               |            |                     |

### COMMENTS:

\_\_\_\_\_

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



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 386750  
 Event Date: 6-20-12 (inclusive)  
 Sampler: JR

Well ID: MW-7  
 Well Diameter: 2  
 Total Depth: 26.05 ft.  
 Depth to Water: 27.05 ft.  
8.00 xVF = \_\_\_\_\_

Date Monitored: 6-20-12

|                    |            |          |                 |           |
|--------------------|------------|----------|-----------------|-----------|
| Volume Factor (VF) | 3/4"= 0.02 | 1"= 0.04 | <u>2"= 0.17</u> | 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.

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

### Purge Equipment:

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

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: 1340 (2400 hrs)  
 Time Completed: 1315 (2400 hrs)  
 Depth to Product: 26.90 ft  
 Depth to Water: 27.05 ft  
 Hydrocarbon Thickness: .15 ft  
 Visual Confirmation/Description: YELLOWISH  
~~Skimmer / Absorbent Sock / Pallets / Bags~~  
 Amt Removed from Skimmer: 0 gal  
 Amt Removed from Well: 0 gal  
 Water Removed: 0  
 Product Transferred to: 0

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: 1  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 DTW @ Sampling: \_\_\_\_\_

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

### LABORATORY INFORMATION

| SAMPLE ID  | (#) CONTAINER           | REFRIG.    | PRESERV. TYPE | LABORATORY       | ANALYSES                   |
|------------|-------------------------|------------|---------------|------------------|----------------------------|
| <u>MW-</u> | <u>x 1000 gal</u>       | <u>YES</u> | <u>HCL</u>    | <u>LANCASTER</u> | <u>NWTPH-Gx/BTEX(8021)</u> |
|            | <u>x 1 liter ambers</u> | <u>YES</u> | <u>HCL</u>    | <u>LANCASTER</u> | <u>NWTPH-Dx w/sgc</u>      |
|            | <u>x 250ml poly</u>     | <u>YES</u> | <u>HNO3</u>   | <u>LANCASTER</u> | <u>TOTAL LEAD (6020)</u>   |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |
|            |                         |            |               |                  |                            |

COMMENTS: SPH

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750  
 Site Address: 1225 N. 45th Street Event Date: 10-20-12 (inclusive)  
 City: Seattle, WA Sampler: J.P.

Well ID: MW-02 Date Monitored: 10-20-12

Well Diameter: 2

Total Depth: 35.05 ft.

Depth to Water: 27.05 ft.

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

Check if water column is less than 0.50 ft.

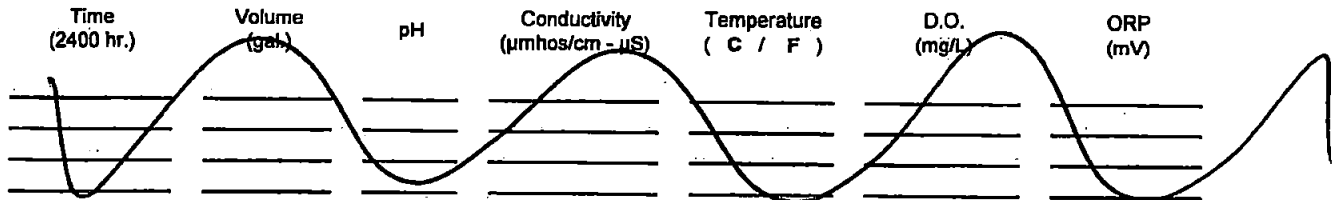
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:           
 xVF          =          x3 case volume = Estimated Purge Volume:          gal.

- Purge Equipment:**
- Disposable Bailer
  - Stainless Steel Bailer
  - Slack Pump
  - Suction Pump
  - Grundfos
  - Peristaltic Pump
  - QED Bladder Pump
  - Other:

- Sampling Equipment:**
- Disposable Bailer
  - Pressure Bailer
  - Metal Filters
  - Peristaltic Pump
  - 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): 1145 Weather Conditions: SUNNY  
 Sample Time/Date: 12:00 / 10-20-12 Water Color: CLEAR Odor: Y/N MILD  
 Approx. Flow Rate:          gpm. Sediment Description: FINE GREY-ORANGE  
 Did well de-water? No If yes, Time:          Volume:          gal. DTW @ Sampling: 27.05



### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER      | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES            |
|-----------|--------------------|---------|---------------|------------|---------------------|
| MW-02     | 3 x voa vial       | YES     | HCL           | LANCASTER  | NWTPH-Gw/BTEX(8021) |
|           | 2 x 1 liter ambers | YES     | HCL           | LANCASTER  | NWTPH-Dx w/sgc      |
|           | 1 x 250ml poly     | YES     | HNO3          | LANCASTER  | TOTAL LEAD (6020)   |
|           |                    |         |               |            |                     |
|           |                    |         |               |            |                     |
|           |                    |         |               |            |                     |

COMMENTS:         

Add/Replaced Lock:          Add/Replaced Plug:          Add/Replaced Bolt:



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 386750  
 Event Date: 6.20.12 (inclusive)  
 Sampler: J.P.

Well ID: MW-9  
 Well Diameter: 2  
 Total Depth: 44.10 ft.  
 Depth to Water: 38.00 ft.  
6.10 xVF = - = -

Date Monitored: 6.20.12

|                    |            |          |                 |           |
|--------------------|------------|----------|-----------------|-----------|
| Volume Factor (VF) | 3/4"= 0.02 | 1"= 0.04 | <u>2"= 0.17</u> | 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.

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 \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

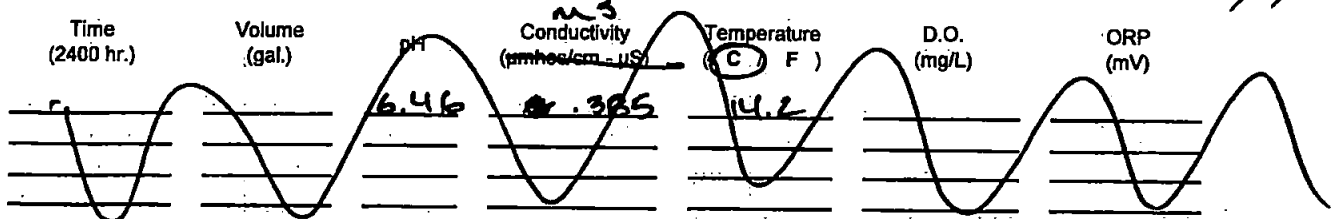
### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 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): 10:15  
 Sample Time/Date: 10:15 6.20.12  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 38.00

Weather Conditions: SUNNY  
 Water Color: CLEAR Odor: Y/N  
 Sediment Description: NONE



### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER      | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES            |
|-----------|--------------------|---------|---------------|------------|---------------------|
| MW-9      | 3 x vov vial       | YES     | HCL           | LANCASTER  | NWTPH-Gx/BTEX(8021) |
|           | 2 x 1 liter ambers | YES     | HCL           | LANCASTER  | NWTPH-Dx w/sgc      |
|           | 1 x 250ml poly     | YES     | HNO3          | LANCASTER  | TOTAL LEAD (6020)   |
|           |                    |         |               |            |                     |
|           |                    |         |               |            |                     |

COMMENTS: R. BASKET

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



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #209335 Job Number: 386750  
 Site Address: 1225 N. 45Th Street Event Date: 6-20-12 (inclusive)  
 City: Seattle, WA Sampler: J.P.

Well ID: MW-10 Date Monitored: 6-20-12  
 Well Diameter: 2  
 Total Depth: 44.60 ft. Volume Factor (VF) table:  
 Depth to Water: 37.35 ft.  Check if water column is less than 0.50 ft.  
7.15 xVF = - = - x3 case volume = Estimated Purge Volume: - gal.  
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): -

|             |            |          |          |           |
|-------------|------------|----------|----------|-----------|
| 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 |

### Purge Equipment:

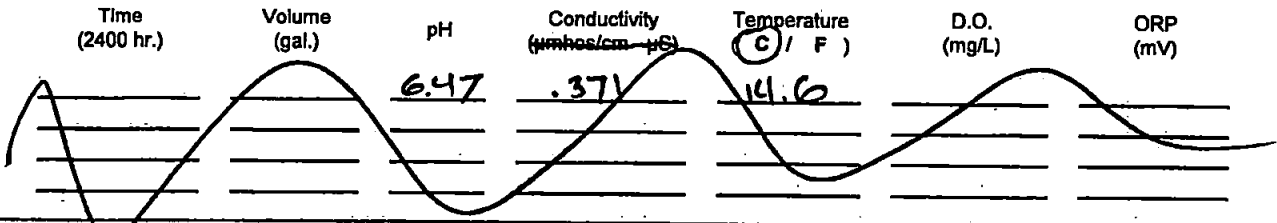
Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 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: Sunny  
 Sample Time/Date: 1110 6-20-12 Water Color: CLEAR Odor: Y/N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: NONE  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 37.35



### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER      | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES            |
|-----------|--------------------|---------|---------------|------------|---------------------|
| MW-10     | 3 x voa vial       | YES     | HCL           | LANCASTER  | NWTPH-Gx/BTEX(8021) |
|           | 2 x 1 liter ambers | YES     | HCL           | LANCASTER  | NWTPH-Dx w/sgc      |
|           | 1 x 250ml poly     | YES     | HNO3          | LANCASTER  | TOTAL LEAD (8020)   |
|           |                    |         |               |            |                     |
|           |                    |         |               |            |                     |

COMMENTS: R. BASKET

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

# Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_

Sample #: \_\_\_\_\_

SCR#: \_\_\_\_\_

| Facility #: <u>SS#209335-OML G-R#386750</u><br>Site Address: <u>1225 N. 45th Street, SEATTLE, WA</u><br>Chevron PM: <u>MHO</u> Lead Consultant: <u>SAICRO Otteman</u><br>Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u><br>Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u><br>Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u><br>Sampler: <u>J. Dwyne</u><br>Service Order #: _____ <input type="checkbox"/> Non SAR: _____ |                |                |      | <b>Matrix</b><br>Potable <input type="checkbox"/><br>NPDES <input type="checkbox"/><br>Water <input type="checkbox"/><br>Oil <input type="checkbox"/> Air <input type="checkbox"/> |      | <b>Analyses Requested</b><br>Preservation Codes<br>BTEX + MEBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> Naphth <input type="checkbox"/><br>8260 full scan <input type="checkbox"/><br>Oxygenates <input type="checkbox"/><br>TPH G <input checked="" type="checkbox"/><br>TPH D <input checked="" type="checkbox"/><br>Extended Rog. <input type="checkbox"/><br>Silica Gel Cleanup <input type="checkbox"/><br>Lead Total <input type="checkbox"/> Diss. <input type="checkbox"/> Method <input type="checkbox"/><br>VPHEPH <input type="checkbox"/><br>NWT/PH H/CID <input type="checkbox"/> quantification |     |  |                            |                    |                |  |       |                              |               | <b>Preservative Codes</b><br>H = HCl      T = Thiosulfate<br>N = HNO <sub>3</sub> B = NaOH<br>S = H <sub>2</sub> SO <sub>4</sub> O = Other<br><input type="checkbox"/> J value reporting needed<br><input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds<br>8021 MTBE Confirmation<br><input type="checkbox"/> Confirm MTBE + Naphthalene<br><input type="checkbox"/> Confirm highest hit by 8260<br><input type="checkbox"/> Confirm all hits by 8260<br><input type="checkbox"/> Run ___ oxy s on highest hit<br><input type="checkbox"/> Run ___ oxy s on all hits |            |       |        |        |              |                |   |  |
|---|----------------|----------------|------|--|------|--|-----|--|----------------------------|--------------------|----------------|--|-------|------------------------------|---------------|--|------------|-------|--------|--------|--------------|----------------|---|--|
| Sample Identification   | Date Collected | Time Collected | Grab | Composite  | Soil | Water  | Oil | Air                                    | Total Number of Containers | BTEX + MEBE 8021   | 8260 full scan | Oxygenates                             | TPH G | TPH D                        | Extended Rog. | Silica Gel Cleanup   | Lead Total | Diss. | Method | VPHEPH | NWT/PH H/CID | quantification | Comments / Remarks  |  |
| QA  | 6-20-12        |                | X    |  |      | X  |     |  | 2                          | X                  |                |  | X     |                              |               |  |            |       |        |        |              |                | Please forward the lab results directly to the Lead Consultant and cc: G-R. |  |
| MAW-6   |                | 12:10          | X    |  |      | X  |     |  | 6                          | X                  |                |  | X     | X                            | X             |  |            |       |        |        |              |                |   |  |
| MAW-8   |                | 12:00          | X    |  |      | X  |     |  | 6                          | X                  |                |  | X     | X                            | X             |  |            |       |        |        |              |                |   |  |
| MAW-9   |                | 12:40          | X    |  |      | X  |     |  | 6                          | X                  |                |  | X     | X                            | X             |  |            |       |        |        |              |                |   |  |
| MAW-10  |                | 11:10          | X    |  |      | X  |     |  | 6                          | X                  |                |  | X     | X                            | X             |  |            |       |        |        |              |                |   |  |
| <b>Turnaround Time Requested (TAT) (please circle)</b><br>STD. TAT      72 hour      48 hour<br>24 hour      4 day      5 day   |                |                |      | Relinquished by: <u>[Signature]</u>  |      |  |     | Date: <u>6-20-12</u> Time: <u>1:00</u> |                            | Received by: _____ |                |  |       | Date: _____      Time: _____ |               |  |            |       |        |        |              |                |   |  |
| <b>Data Package Options (please circle if required)</b> EDF/EDD   |                |                |      | Relinquished by: _____   |      |  |     | Date: _____      Time: _____           |                            | Received by: _____ |                |  |       | Date: _____      Time: _____ |               |  |            |       |        |        |              |                |   |  |
| QC Summary      Type I - Full<br>Type VI (Raw Data)      Disk / EDD<br>WIP (RWQCB)      Standard Format<br>Disk      _____ Other.   |                |                |      | Relinquished by Commercial Carrier: _____  |      |  |     | Received by: _____                     |                            |                    |                | Date: _____      Time: _____           |       |                              |               |  |            |       |        |        |              |                |   |  |
|   |                |                |      | UPS <u>FedEx</u> Other _____   |      |  |     | 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

July 06, 2012

Project: 209335

Submittal Date: 06/23/2012  
Group Number: 1317932  
PO Number: 0015103600  
Release Number: HORNE  
State of Sample Origin: WAClient Sample DescriptionMW-6 Grab Water Sample  
MW-8 Grab Water Sample  
MW-9 Grab Water Sample  
MW-10 Grab Water SampleLancaster Labs (LLI) #6699567  
6699568  
6699569  
6699570

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: Jamalyn Green

Attn: Ruth Otteman

Respectfully Submitted,

*Jill M. Parker*

Jill M. Parker  
Senior Specialist

(717) 556-7262

Sample Description: MW-6 Grab Water Sample  
Facility# 209335 Job# 386750  
1225 N. 45th Street - Seattle, WA

LLI Sample # WW 6699567  
LLI Group # 1317932  
Account # 11260

Project Name: 209335

Collected: 06/20/2012 12:40 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/23/2012 09:30

L4310

Reported: 07/06/2012 13:00

San Ramon CA 94583

45S06

| 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  | Toluene                             | 108-88-3   | N.D.               | 0.5                                | 1               |
| 02102  | Total Xylenes                       | 1330-20-7  | N.D.               | 1.5                                | 1               |
| <b>GC Petroleum Hydrocarbons w/Si</b>                  |                                     |            |                    |                                    |                 |
|  | <b>ECY 97-602 NWTPH-Dx modified</b> |            | <b>ug/l</b>        | <b>ug/l</b>                        |                 |
| 12005  | DRO C12-C24 w/Si Gel                | n.a.       | N.D.               | 30                                 | 1               |
| 12005  | HRO C24-C40 w/Si Gel                | n.a.       | N.D.               | 70                                 | 1               |
| The reverse surrogate, capric acid, is present at <1%. |                                     |            |                    |                                    |                 |
| <b>Metals</b>  |                                     |            |                    |                                    |                 |
|  | <b>SW-846 6020</b>                  |            | <b>ug/l</b>        | <b>ug/l</b>                        |                 |
| 06035  | Lead                                | 7439-92-1  | N.D.               | 0.034                              | 1               |

### General Sample Comments

State of Washington Lab Certification No. C259  
Trip blank vials were not received by the laboratory for this sample group.

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      | 12181B53A     | 07/03/2012 18:32       | Marie D John         | 1               |
| 02102   | Method 8021 Water Master     | SW-846 8021B                 | 1      | 12181B53A     | 07/03/2012 18:32       | Marie D John         | 1               |
| 01146   | GC VOA Water Prep            | SW-846 5030B                 | 1      | 12181B53A     | 07/03/2012 18:32       | Marie D John         | 1               |
| 12005   | NWTPH-Dx water w/ 10g Si Gel | ECY 97-602 NWTPH-Dx modified | 1      | 121810006A    | 07/03/2012 15:57       | Christine E Dolman   | 1               |
| 12007   | NW Dx water w/ 10g column    | ECY 97-602 NWTPH-Dx 06/97    | 1      | 121810006A    | 06/30/2012 06:25       | JoElla L Rice        | 1               |
| 06035   | Lead                         | SW-846 6020                  | 1      | 121776050004A | 06/29/2012 13:01       | Choon Y Tian         | 1               |
| 06050   | ICP/MS SW-846 Water Digest   | SW-846 3010A modified        | 1      | 121776050004  | 06/25/2012 23:00       | Annamaria Stipkovits | 1               |

**Sample Description:** MW-8 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N. 45th Street - Seattle, WA

LLI Sample # WW 6699568  
 LLI Group # 1317932  
 Account # 11260

**Project Name:** 209335

Collected: 06/20/2012 12:00 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/23/2012 09:30

L4310

Reported: 07/06/2012 13:00

San Ramon CA 94583

45S08

| CAT No.  | Analysis Name         | CAS Number                  | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--|-----------------------|-----------------------------|--------------------|------------------------------------|-----------------|
| <b>GC Volatiles</b>                                    |                       |                             |                    |                                    |                 |
| 08274  | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx<br>n.a. | ug/l<br>170        | ug/l<br>50                         | 1               |
| <b>GC Volatiles</b>                                    |                       |                             |                    |                                    |                 |
| 02102  | Benzene               | SW-846 8021B<br>71-43-2     | ug/l<br>0.7        | ug/l<br>0.5                        | 1               |
| 02102  | Ethylbenzene          | 100-41-4                    | 1.3                | 0.5                                | 1               |
| 02102  | Toluene               | 108-88-3                    | 0.7                | 0.5                                | 1               |
| 02102  | Total Xylenes         | 1330-20-7                   | 2.2                | 1.5                                | 1               |
| <b>GC Petroleum Hydrocarbons w/Si</b>                  |                       |                             |                    |                                    |                 |
| ECY 97-602 NWTPH-Dx modified                           |                       |                             |                    |                                    |                 |
| 12005  | DRO C12-C24 w/Si Gel  | n.a.                        | N.D.               | 30                                 | 1               |
| 12005  | HRO C24-C40 w/Si Gel  | n.a.                        | N.D.               | 70                                 | 1               |
| The reverse surrogate, capric acid, is present at <1%. |                       |                             |                    |                                    |                 |
| <b>Metals</b>  |                       |                             |                    |                                    |                 |
| 06035  | Lead                  | SW-846 6020<br>7439-92-1    | ug/l<br>1.8        | ug/l<br>0.034                      | 1               |

### General Sample Comments

State of Washington Lab Certification No. C259  
 Trip blank vials were not received by the laboratory for this sample group.

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      | 12181B53A     | 07/03/2012 18:59       | Marie D John         | 1               |
| 02102   | Method 8021 Water Master     | SW-846 8021B                 | 1      | 12181B53A     | 07/03/2012 18:59       | Marie D John         | 1               |
| 01146   | GC VOA Water Prep            | SW-846 5030B                 | 1      | 12181B53A     | 07/03/2012 18:59       | Marie D John         | 1               |
| 12005   | NWTPH-Dx water w/ 10g Si Gel | ECY 97-602 NWTPH-Dx modified | 1      | 121810006A    | 07/03/2012 16:20       | Christine E Dolman   | 1               |
| 12007   | NW Dx water w/ 10g column    | ECY 97-602 NWTPH-Dx 06/97    | 1      | 121810006A    | 06/30/2012 06:25       | JoElla L Rice        | 1               |
| 06035   | Lead                         | SW-846 6020                  | 1      | 121776050004A | 06/29/2012 13:03       | Choon Y Tian         | 1               |
| 06050   | ICP/MS SW-846 Water Digest   | SW-846 3010A modified        | 1      | 121776050004  | 06/25/2012 23:00       | Annamaria Stipkovits | 1               |

**Sample Description:** MW-9 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N. 45th Street - Seattle, WA

LLI Sample # WW 6699569  
 LLI Group # 1317932  
 Account # 11260

**Project Name:** 209335

Collected: 06/20/2012 10:40 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/23/2012 09:30

L4310

Reported: 07/06/2012 13:00

San Ramon CA 94583

45S09

| CAT No.  | Analysis Name         | CAS Number                  | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--|-----------------------|-----------------------------|--------------------|------------------------------------|-----------------|
| <b>GC Volatiles</b>                                    |                       |                             |                    |                                    |                 |
| 08274  | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx<br>n.a. | ug/l<br>N.D.       | ug/l<br>50                         | 1               |
| <b>GC Volatiles</b>                                    |                       |                             |                    |                                    |                 |
| 02102  | Benzene               | SW-846 8021B<br>71-43-2     | ug/l<br>N.D.       | ug/l<br>0.5                        | 1               |
| 02102  | Ethylbenzene          | 100-41-4                    | N.D.               | 0.5                                | 1               |
| 02102  | Toluene               | 108-88-3                    | N.D.               | 0.5                                | 1               |
| 02102  | Total Xylenes         | 1330-20-7                   | N.D.               | 1.5                                | 1               |
| <b>GC Petroleum Hydrocarbons w/Si</b>                  |                       |                             |                    |                                    |                 |
| ECY 97-602 NWTPH-Dx modified                           |                       |                             |                    |                                    |                 |
| 12005  | DRO C12-C24 w/Si Gel  | n.a.                        | N.D.               | 30                                 | 1               |
| 12005  | HRO C24-C40 w/Si Gel  | n.a.                        | N.D.               | 70                                 | 1               |
| The reverse surrogate, capric acid, is present at <1%. |                       |                             |                    |                                    |                 |
| <b>Metals</b>  |                       |                             |                    |                                    |                 |
| 06035  | Lead                  | SW-846 6020<br>7439-92-1    | ug/l<br>3.8        | ug/l<br>0.034                      | 1               |

### General Sample Comments

State of Washington Lab Certification No. C259  
 Trip blank vials were not received by the laboratory for this sample group.

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      | 12181B53A     | 07/03/2012 19:25       | Marie D John         | 1               |
| 02102   | Method 8021 Water Master     | SW-846 8021B                 | 1      | 12181B53A     | 07/03/2012 19:25       | Marie D John         | 1               |
| 01146   | GC VOA Water Prep            | SW-846 5030B                 | 1      | 12181B53A     | 07/03/2012 19:25       | Marie D John         | 1               |
| 12005   | NWTPH-Dx water w/ 10g Si Gel | ECY 97-602 NWTPH-Dx modified | 1      | 121810006A    | 07/03/2012 16:43       | Christine E Dolman   | 1               |
| 12007   | NW Dx water w/ 10g column    | ECY 97-602 NWTPH-Dx 06/97    | 1      | 121810006A    | 06/30/2012 06:25       | JoElla L Rice        | 1               |
| 06035   | Lead                         | SW-846 6020                  | 1      | 121776050004A | 06/29/2012 13:05       | Choon Y Tian         | 1               |
| 06050   | ICP/MS SW-846 Water Digest   | SW-846 3010A modified        | 1      | 121776050004  | 06/25/2012 23:00       | Annamaria Stipkovits | 1               |

**Sample Description:** MW-10 Grab Water Sample  
 Facility# 209335 Job# 386750  
 1225 N. 45th Street - Seattle, WA

LLI Sample # WW 6699570  
 LLI Group # 1317932  
 Account # 11260

**Project Name:** 209335

Collected: 06/20/2012 11:10 by JP

Chevron

6001 Bollinger Canyon Road

Submitted: 06/23/2012 09:30

L4310

Reported: 07/06/2012 13:00

San Ramon CA 94583

45S10

| CAT No.  | Analysis Name         | CAS Number                  | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--|-----------------------|-----------------------------|--------------------|------------------------------------|-----------------|
| <b>GC Volatiles</b>                                    |                       |                             |                    |                                    |                 |
| 08274  | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx<br>n.a. | ug/l<br>N.D.       | ug/l<br>50                         | 1               |
| <b>GC Volatiles</b>                                    |                       |                             |                    |                                    |                 |
| 02102  | Benzene               | SW-846 8021B<br>71-43-2     | ug/l<br>N.D.       | ug/l<br>0.5                        | 1               |
| 02102  | Ethylbenzene          | 100-41-4                    | N.D.               | 0.5                                | 1               |
| 02102  | Toluene               | 108-88-3                    | N.D.               | 0.5                                | 1               |
| 02102  | Total Xylenes         | 1330-20-7                   | N.D.               | 1.5                                | 1               |
| <b>GC Petroleum Hydrocarbons w/Si</b>                  |                       |                             |                    |                                    |                 |
| ECY 97-602 NWTPH-Dx modified                           |                       |                             |                    |                                    |                 |
| 12005  | DRO C12-C24 w/Si Gel  | n.a.                        | N.D.               | 31                                 | 1               |
| 12005  | HRO C24-C40 w/Si Gel  | n.a.                        | N.D.               | 71                                 | 1               |
| The reverse surrogate, capric acid, is present at <1%. |                       |                             |                    |                                    |                 |
| <b>Metals</b>  |                       |                             |                    |                                    |                 |
| 06035  | Lead                  | SW-846 6020<br>7439-92-1    | ug/l<br>0.23       | ug/l<br>0.034                      | 1               |

### General Sample Comments

State of Washington Lab Certification No. C259  
 Trip blank vials were not received by the laboratory for this sample group.

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      | 12181B53A     | 07/03/2012 19:52       | Marie D John         | 1               |
| 02102   | Method 8021 Water Master     | SW-846 8021B                 | 1      | 12181B53A     | 07/03/2012 19:52       | Marie D John         | 1               |
| 01146   | GC VOA Water Prep            | SW-846 5030B                 | 1      | 12181B53A     | 07/03/2012 19:52       | Marie D John         | 1               |
| 12005   | NWTPH-Dx water w/ 10g Si Gel | ECY 97-602 NWTPH-Dx modified | 1      | 121810006A    | 07/03/2012 17:06       | Christine E Dolman   | 1               |
| 12007   | NW Dx water w/ 10g column    | ECY 97-602 NWTPH-Dx 06/97    | 1      | 121810006A    | 06/30/2012 06:25       | JoElla L Rice        | 1               |
| 06035   | Lead                         | SW-846 6020                  | 1      | 121806050002A | 06/29/2012 15:39       | Choon Y Tian         | 1               |
| 06050   | ICP/MS SW-846 Water Digest   | SW-846 3010A modified        | 1      | 121806050002  | 06/28/2012 23:00       | Annamaria Stipkovits | 1               |

## Quality Control Summary

Client Name: Chevron

Group Number: 1317932

Reported: 07/06/12 at 01:00 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

| <u>Analysis Name</u>        | <u>Blank Result</u>               | <u>Blank MDL</u> | <u>Report Units</u> | <u>LCS %REC</u> | <u>LCSD %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|-----------------------------|-----------------------------------|------------------|---------------------|-----------------|------------------|------------------------|------------|----------------|
| Batch number: 12181B53A     | Sample number(s): 6699567-6699570 |                  |                     |                 |                  |                        |            |                |
| Benzene                     | N.D.                              | 0.5              | ug/l                | 105             |                  | 80-120                 |            |                |
| Ethylbenzene                | N.D.                              | 0.5              | ug/l                | 105             |                  | 80-120                 |            |                |
| NWTPH-Gx water C7-C12       | N.D.                              | 50.              | ug/l                | 91              | 91               | 75-135                 | 0          | 30             |
| Toluene                     | N.D.                              | 0.5              | ug/l                | 105             |                  | 80-120                 |            |                |
| Total Xylenes               | N.D.                              | 1.5              | ug/l                | 107             |                  | 80-120                 |            |                |
| Batch number: 121810006A    | Sample number(s): 6699567-6699570 |                  |                     |                 |                  |                        |            |                |
| DRO C12-C24 w/Si Gel        | N.D.                              | 30.              | ug/l                | 69              | 75               | 50-120                 | 9          | 20             |
| HRO C24-C40 w/Si Gel        | N.D.                              | 70.              | ug/l                |                 |                  |                        |            |                |
| Batch number: 121776050004A | Sample number(s): 6699567-6699569 |                  |                     |                 |                  |                        |            |                |
| Lead                        | N.D.                              | 0.034            | ug/l                | 106             |                  | 90-115                 |            |                |
| Batch number: 121806050002A | Sample number(s): 6699570         |                  |                     |                 |                  |                        |            |                |
| Lead                        | N.D.                              | 0.034            | ug/l                | 100             |                  | 90-115                 |            |                |

### 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

| <u>Analysis Name</u>        | <u>MS %REC</u>  | <u>MSD %REC</u> | <u>MS/MSD Limits</u> | <u>RPD</u> | <u>RPD MAX</u> | <u>BKG Conc</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|-----------------------------|---|-----------------|----------------------|------------|----------------|-----------------|-----------------|----------------|--------------------|
| Batch number: 12181B53A     | Sample number(s): 6699567-6699570 UNSPK: P706747              |                 |                      |            |                |                 |                 |                |                    |
| Benzene                     | 200 (2)   | 100 (2)         | 80-130               | 7          | 30             |                 |                 |                |                    |
| Ethylbenzene                | 25*   | 100             | 80-133               | 30         | 30             |                 |                 |                |                    |
| Toluene                     | 109   | 109             | 80-133               | 0          | 30             |                 |                 |                |                    |
| Total Xylenes               | 97  | 107             | 80-132               | 7          | 30             |                 |                 |                |                    |
| Batch number: 121776050004A | Sample number(s): 6699567-6699569 UNSPK: P696536 BKG: P696536 |                 |                      |            |                |                 |                 |                |                    |
| Lead                        | 104   | 104             | 83-120               | 0          | 20             | 0.17            | 0.16            | 9 (1)          | 20                 |
| Batch number: 121806050002A | Sample number(s): 6699570 UNSPK: P703409 BKG: P703409         |                 |                      |            |                |                 |                 |                |                    |
| Lead                        | 101   | 101             | 83-120               | 0          | 20             | 5.4             | 5.3             | 1              | 20                 |

### 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.

\*- 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: 07/06/12 at 01:00 PM

Group Number: 1317932

### Surrogate Quality Control

Analysis Name: Method 8021 Water Master  
Batch number: 12181B53A

|         | Trifluorotoluene-P | Trifluorotoluene-F |
|---------|--------------------|--------------------|
| 6699567 | 85                 | 72                 |
| 6699568 | 86                 | 71                 |
| 6699569 | 86                 | 72                 |
| 6699570 | 86                 | 71                 |
| Blank   | 84                 | 73                 |
| LCS     | 86                 | 88                 |
| LCSD    |                    | 88                 |
| MS      | 94                 |                    |
| MSD     | 91                 |                    |

Limits: 51-120                      63-135

Analysis Name: NWTPH-Dx water w/ 10g Si Gel  
Batch number: 121810006A  
Orthoterphenyl

|         |    |
|---------|----|
| 6699567 | 75 |
| 6699568 | 68 |
| 6699569 | 69 |
| 6699570 | 79 |
| Blank   | 76 |
| LCS     | 78 |
| LCSD    | 85 |

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 #: 6699566-76 SCR#: \_\_\_\_\_

G# 1317932

| Facility #: <u>SS#209335-OML G-R#386750</u><br>Site Address: <u>1225 N. 45th Street, SEATTLE, WA</u><br>Chevron PM: <u>MHO</u> Lead Consultant: <u>SAICRO Otteman</u><br>Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568</u><br>Consultant Prj. Mgr. <u>Deanna L. Harding (deanna@grinc.com)</u><br>Consultant Phone <u>925-551-7555</u> Fax #: <u>925-551-7899</u><br>Sampler: <u>J. RAYNE</u><br>Service Order #: _____ <input type="checkbox"/> Non SAR: _____ |                |                |                                     | <b>Matrix</b><br>Potable <input type="checkbox"/> NPDES <input type="checkbox"/><br>Water <input type="checkbox"/><br>Oil <input type="checkbox"/> Air <input type="checkbox"/> |      | <b>Analyses Requested</b><br>Preservation Codes |     |     |                            |  |                |            |                                     |                                     |  | <b>Preservative Codes</b><br>H = HCl      T = Thiosulfate<br>N = HNO <sub>3</sub> B = NaOH<br>S = H <sub>2</sub> SO <sub>4</sub> O = Other<br><input type="checkbox"/> J value reporting needed<br><input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds<br>8021 MTBE Confirmation<br><input type="checkbox"/> Confirm MTBE + Naphthalene<br><input type="checkbox"/> Confirm highest hit by 8260<br><input type="checkbox"/> Confirm all hits by 8260<br><input type="checkbox"/> Run ___ oxy s on highest hit<br><input type="checkbox"/> Run ___ oxy s on all hits |        |             |                |
|---|----------------|----------------|-------------------------------------|---|------|---|-----|-----|----------------------------|--|----------------|------------|-------------------------------------|-------------------------------------|--|--|--------|-------------|----------------|
| Sample Identification   | Date Collected | Time Collected | Grab                                | Composite   | Soil | Water   | Oil | Air | Total Number of Containers | BTEX + 8260  | 8260 full scan | Oxygenates | MUTPHG                              | MUTPHD                              | Extended Rep. Solvent Cleanup  | Lead Total Diss. Method  | VPHEPH | MUTPH HClID | quantification |
| <u>QA</u>   | <u>6-26-12</u> |                | <input checked="" type="checkbox"/> |   |      | <input checked="" type="checkbox"/>             |     |     | <u>2</u>                   | <input checked="" type="checkbox"/>  |                |            | <input checked="" type="checkbox"/> |                                     |  |  |        |             |                |
| <u>MW-6</u>   |                | <u>1240</u>    | <input checked="" type="checkbox"/> |   |      | <input checked="" type="checkbox"/>             |     |     | <u>6</u>                   | <input checked="" type="checkbox"/>  |                |            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                    |  |        |             |                |
| <u>MW-8</u>   |                | <u>1200</u>    | <input checked="" type="checkbox"/> |   |      | <input checked="" type="checkbox"/>             |     |     | <u>6</u>                   | <input checked="" type="checkbox"/>  |                |            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                    |  |        |             |                |
| <u>MW-9</u>   |                | <u>1040</u>    | <input checked="" type="checkbox"/> |   |      | <input checked="" type="checkbox"/>             |     |     | <u>6</u>                   | <input checked="" type="checkbox"/>  |                |            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                    |  |        |             |                |
| <u>MW-10</u>  |                | <u>1110</u>    | <input checked="" type="checkbox"/> |   |      | <input checked="" type="checkbox"/>             |     |     | <u>6</u>                   | <input checked="" type="checkbox"/>  |                |            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                                    |  |        |             |                |
| <b>Comments / Remarks</b><br>QA vials not received.<br>Jmp 6/26/12<br>Please forward the lab results directly to the Lead Consultant and cc: G-R.   |                |                |                                     |   |      |   |     |     |                            |  |                |            |                                     |                                     |  |  |        |             |                |
| <b>Turnaround Time Requested (TAT) (please circle)</b><br>STD. TAT      72 hour      48 hour<br>24 hour      4 day      5 day   |                |                |                                     |   |      |   |     |     |                            | Relinquished by: <u>[Signature]</u> Date: <u>6-26-12</u> Time: <u>1:00</u> |                |            |                                     |                                     | Received by: _____      Date: _____      Time: _____                   |  |        |             |                |
| <b>Data Package Options (please circle if required)</b> EDF/EDD   |                |                |                                     |   |      |   |     |     |                            | Relinquished by: _____      Date: _____      Time: _____                   |                |            |                                     |                                     | Received by: _____      Date: _____      Time: _____                   |  |        |             |                |
| QC Summary      Type I - Full<br>Type VI (Raw Data)      Disk / EDD<br>WIP (RWQCB)      Standard Format<br>Disk      _____ Other.   |                |                |                                     |   |      |   |     |     |                            | Relinquished by Commercial Carrier:<br>UPS <u>FedEx</u> Other _____        |                |            |                                     |                                     | Received by: <u>[Signature]</u> Date: <u>6/26/12</u> Time: <u>6:30</u> |  |        |             |                |
| Temperature Upon Receipt <u>30.40</u> °C  |                |                |                                     |   |      |   |     |     |                            | Custody Seals Intact? <input checked="" type="checkbox"/> 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>µg</b>               | microgram(s)   | <b>mg</b>       | milligram(s)                     |
| <b>mL</b>               | milliliter(s)  | <b>L</b>        | liter(s)                         |
| <b>m<sup>3</sup></b>    | cubic meter(s)   | <b>µL</b>       | microliter(s)                    |
|                         |  | <b>pg/L</b>     | picogram/liter                   |
| <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>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.   |                 |                                  |

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## 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 $\geq$ IDL                       |
| <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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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