April 22, 2014



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AND DEPT. OF ECOLOGY

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

Subject: First Quarter 2014 Groundwater Monitoring and Sampling Report

Former Tidewater Service Station No. 303189

7301 Martin Luther King Jr. Way South

Seattle, Washington

Dear Mr. Horne:

Leidos Engineering, LLC (Leidos; formerly SAIC Energy, Environment & Infrastructure, LLC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the first quarter 2014 groundwater monitoring and sampling event at the former Tidewater Service Station No. 303189 (the site) in Seattle, Washington (Figure 1).

FIELD ACTIVITIES

Gettler-Ryan, Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on February 26, 2014. They collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in three monitoring wells on site. SPH were observed in monitoring well MW-2. A site map is provided as Figure 2.

Groundwater samples were collected from two of the three monitoring wells. Samples were submitted 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; and
- Benzene, toluene, ethylbenzene, and total xylenes by United States Environmental Protection Agency Method 8021B.

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

RESULTS

Groundwater elevations are consistent with historical data reported at the site. Petroleum-hydrocarbon constituent concentrations are generally consistent with respect to historical data. SPH thickness in monitoring well MW-2 was 0.03 feet. No analytes were detected at concentrations exceeding the Model Toxic Control Act or laboratory reporting limits in monitoring wells MW-1 and MW-3.

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.

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@leidos.com.

Sincerely,

Leidos Engineering, LLC

Ruth Otteman, LG Project Manager

Kinga Kozlowska
Environmental Scientist

Enclosures:

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation Map

Table 1 - Groundwater Monitoring Data and Analytical Results

Attachment A - Groundwater Monitoring and Sampling Data Package

Attachment B - Laboratory Analysis Report

cc: Ms. Donna Musa – Ecology NW Region, Toxics Cleanup Program 3190 160th Avenue SE, Bellevue, WA 98008-5452

Mr. Larry Hard - Seattle Housing Authority

190 Queen Anne Avenue North, P.O Box 19028, Seattle, WA 98109-1028

Project File

REPORT LIMITATIONS

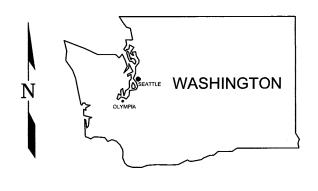
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges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

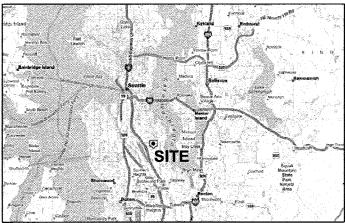
Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. Leidos 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.

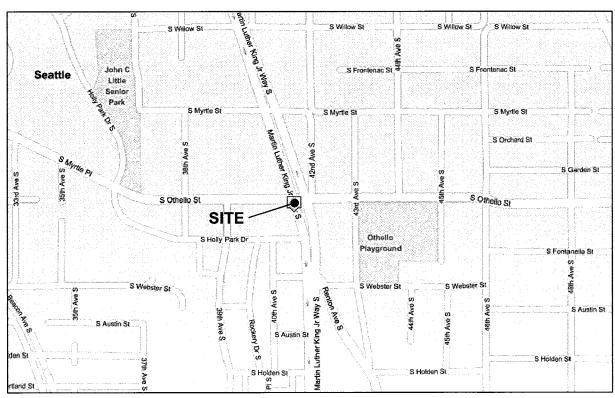
Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

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

All sources of information on which Leidos 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 Leidos 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

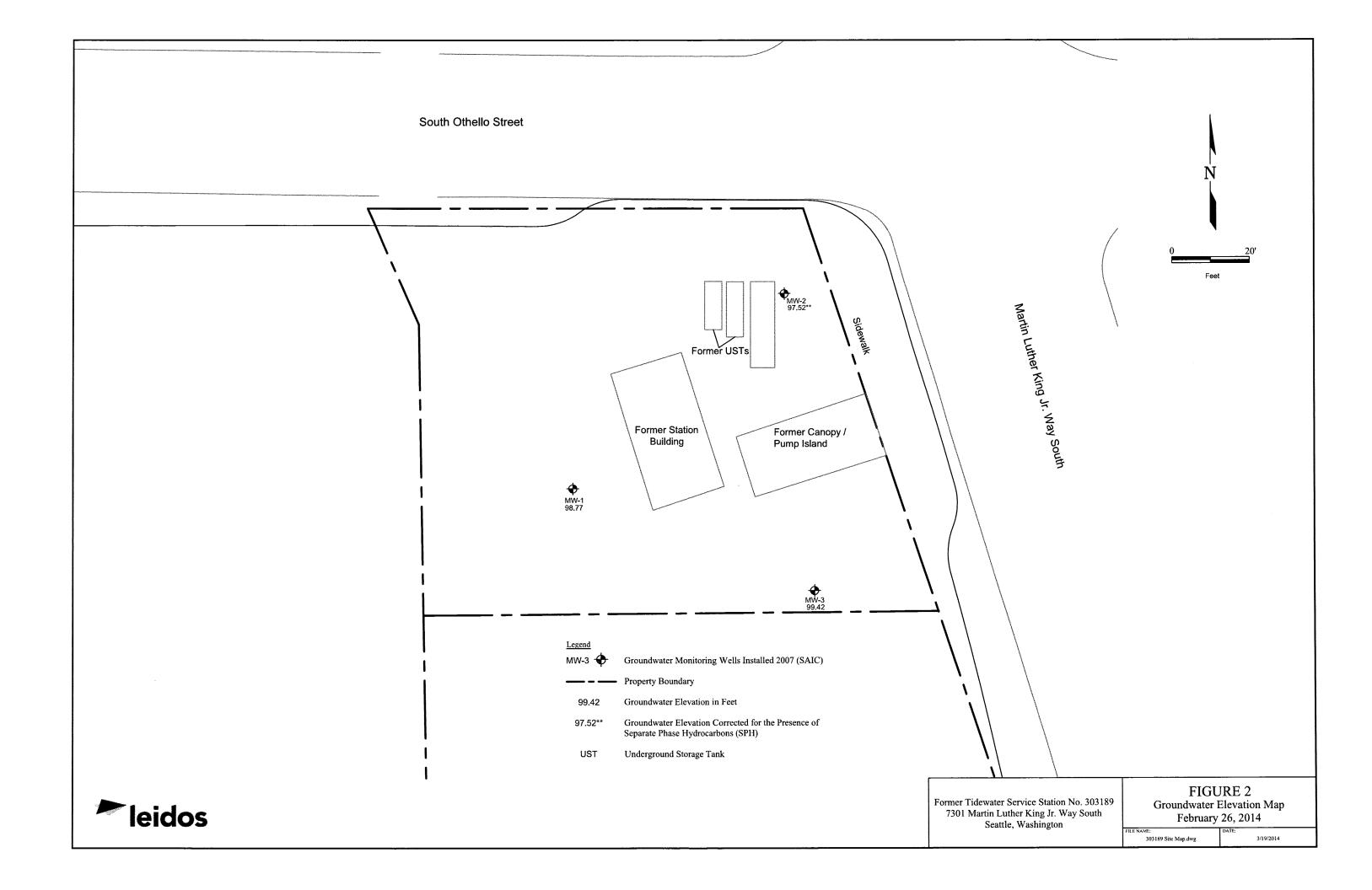


Former Tidewater Service Station No. 30-3189 7301 Martin Luther King Jr. Way South Seattle, Washington

FIGURE 1 Vicinity Map

FILE NAME:

303189_VM.dwg 8/29/2012



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER TIDEWATER SERVICE STATION NO. 303189

7301 Martin Luther King Jr. Way South Seattle, Washington

Concentrations reported in µg/L

| Well ID/ | Purge | TOC ² | DTP | DTW | SPHT | GWE ³ | | | . 0 | | | Ethyl- | Total | | Total |
|----------|--------|------------------|----------|----------|------------|---------------------------------------|----------------------|------------------|------------|------------|----------|---------|---------|-------|-----------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xylenes | MTBE | Lead |
| MW-1 | | () | (=1.) | | \/ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | · | | | <u> </u> | | | | |
| 08/31/07 | | | <u> </u> | | | | 930 | 190 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | 0.052 |
| 04/24/09 | LFP | 99.66 | | 2.36 | | 97.30 | 650 | <76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/12/09 | LFP | 99.66 | | 4.24 | | 95.42 | 370 | <67 | <50 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | |
| 11/14/09 | LFP | 99.66 | | 1.78 | | 97.88 | 270^{2} | <68 ⁵ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/11/10 | LFP | 99.66 | | 1.92 | | 97.74 | 560 | <69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 05/24/10 | LFP | 99.66 | | 2.43 | | 97.23 | 91 | <68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/04/10 | LFP | 99.66 | | 3.62 | | 96.04 | 520 | <75 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 11/12/10 | LFP | 99.66 | | 2.00 | | 97.66 | 440 | <68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/23/11 | LFP | 99.66 | | 2.03 | | 97.63 | 1,000 | 270 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 05/06/11 | LFP | 99.66 | | 2.32 | | 97.34 | 1,100 | 210 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/18/11 | LFP | 99.66 | | 4.10 | | 95.56 | 830 | 210 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 11/22/11 | LFP | 99.66 | | 1.88 | | 97.78 | <30 | <70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/23/12 | LFP | 99.66 | | 1.60 | | 98.06 | <31 | <72 | <50 | <0.5 | <0.5 | <0.5 | < 0.5 | <0.5 | |
| 05/25/12 | LFP | 99.66 | | 1.80 | | 97.86 | <30 | <69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/10/12 | LFP | 100.66 | | 4.02 | | 96.64 | <30 | <69 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 11/15/12 | LFP | 100.66 | | 2.18 | | 98.48 | 120 | 160 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 02/14/13 | LFP | 100.66 | | 1.84 | | 98.82 | <29 | <68 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 06/01/13 | LFP | 100.66 | | 1.86 | | 98.80 | <29 | <67 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | . <u></u> |
| 08/22/13 | LFP | 100.66 | | 3.98 | | 96.68 | <29 | <67 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 11/22/13 | LFP | 100.66 | | 2.22 | | 98.44 | <29 | <67 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 02/26/14 | LFP | 100.66 | | 1.89 | | 98.77 | <30 | <70 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| MW-2 | | | | | | | | • | | | | | · | | |
| 08/31/07 | | - | | | | | 2,100 | 1,200 | 26,000 | 3,200 | 190 | 1,400 | 3,300 | | |
| 04/24/09 | PER | 99.05 | | 7.34 | | 91.71 | 4 | 4 | 16,000 | 4,100 | 99 | 1,500 | 2,000 | <3 | |
| 08/12/09 | PER | 99.05 | | 8.18 | | 90.87 | 4 | 4 | 27,000 | 4,000 | 100 | 1,300 | 1,900 | <3 | |
| 11/14/09 | PER | 99.05 | | 5.75 | | 93.30 | 4 | 4 | 19,000 | 2,800 | 62 | 950 | 1,300 | <3 | |
| 02/11/10 | PER | 99.05 | | 6.98 | | 92.07 | 4 | 4 | 25,000 | 3,400 | 97 | 1,600 | 2,200 | < 0.5 | |
| 05/24/10 | PER | 99.05 | | 7.42 | | 91.63 | 4 | 4 | 19,000 | 2,900 | 88 | 1,400 | 2,000 | <1 | |
| 08/04/10 | PER | 99.05 | | 7.92 | | 91.13 | 4 | 4 | 16,000 | 3,800 | 110 | 1,700 | 2,700 | <3 | |
| 11/12/10 | PER | 99.05 | | 6.16 | | 92.89 | 4 | 4 | 16,000 | 1,900 | 56 | 660 | 680 | <1 | |
| 02/23/11 | PER | 99.05 | | 6.09 | | 92.96 | 4 | 4 | 12,000 | 2,800 | 60 | 680 | 780 | <3 | |
| 05/06/11 | PER | 99.05 | | 6.98 | | 92.07 | ⁴ | 4 | 15,000 | 3,100 | 72 | 1,300 | 1,400 | <3 | |
| 08/18/11 | | 99.05 | 8.20 | 8.30 | 0.10 | 90.83 | UNABLE T | O SAMPLE I | OUE TO PRE | SENCE OF S | SPH | | - | | |
| 11/22/11 | | 99.05 | UNABLE T | O MEASUR | E DTW OR 0 | COLLECT S. | AMPLE DUE | TO PRESEN | ICE OF SPH | | 20 | | | | |
| 02/23/12 | | 99.05 | 1.55 | 1.90 | 0.35 | 97.43 | UNABLE T | O SAMPLE I | OUE TO PRE | SENCE OF S | SPH | | | | |
| 05/25/12 | | 99.05 | 7.10 | 7.85 | 0.75 | 91.80 | UNABLE T | O SAMPLE I | OUE TO PRE | SENCE OF S | SPH | | | | |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER TIDEWATER SERVICE STATION NO. 303189

7301 Martin Luther King Jr. Way South

Seattle, Washington

Concentrations reported in µg/L

| Well ID/ | Purge | TOC^2 | DTP | DTW | SPHT | GWE ³ | | Teporteum | | | | Ethyl- | Total | | Total |
|-------------------|-----------|---------|------------|-------------|---|------------------|-------------|------------|---------------------------------------|------------|-------------|---------|---------------------------|-------|----------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TOU DO | TPH-HRO | TDU CDA | Benzene | Toluene | benzene | Xylenes | МТВЕ | Lead |
| MW-2 (cont) | Methou | (11.,) | (11.) | 1 (16.) | [(IL.) | 1 (11.) | 1111-DKO | 1 arm-may | IIII-GKU | Denzene | Totalie | DCHECHE | 2xyreares | MIIDE | <u> </u> |
| 08/10/12 | | 99.05 | 8.14 | 8.34 | 0.20 | 90.87 | TINARIET | O SAMPLE I | TIE TO PRE | SENCE OF S | DН | e pr | 980 | on on | (26 (26) |
| 11/15/12 | | 99.05 | 5.92 | 6.10 | 0.18 | 93.09 | - | O SAMPLE I | | | | 80 EQ | | 50 EO | 280 |
| 02/14/13 | | 99.05 | 7.12 | | <u> </u> | L | | AMPLE DUE | | | | | 630 | GR 20 | 30 SR |
| 06/01/13 | | 99.05 | 7.06 | | *************************************** | | | MPLE DUE | · · · · · · · · · · · · · · · · · · · | * | 50 | == | | 80 80 | so #o |
| 08/22/13 | | 99.05 | • | <u> </u> | | | | DUE TO PR | · | | 9.8 | 88 | #59 | es. | Ø 681 |
| 11/22/13 | | 99.05 | 6.02 | 6.04 | 0.02 | 93.03 | | O SAMPLE D | · | | | | | 和 图 | |
| 02/26/14 | | 99.05 | 1.52 | 1.55 | 0.03 | 97.52 | 1 | O SAMPLE D | | | | 8 S | | नक सम | ia sa |
| MW-3 | | | | <u> </u> | | L <u>:</u> | 10111111111 | | | | * ^ ^ | | <u></u> | | |
| 08/31/07 | | 25 | - - | | | | 120 | <100 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | 0.055 |
| 04/24/09 | LFP | 100.00 | | 2.13 | | 97.87 | 58 | <75 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <u> </u> |
| 08/12/09 | LFP | 100.00 | gri spe | 4.47 | ~~ | 95.53 | 620 | 170 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 11/14/09 | LFP | 100.00 | | 1.60 | | 98.40 | 450 | 370 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/11/10 | LFP | 100.00 | | 1.59 | | 98.41 | 160 | 130 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 05/24/10 | LFP | 100.00 | | 1.83 | | 98.17 | 910 | 310 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/04/10 | LFP | 100.00 | | 3.84 | | 96.16 | 55 | <74 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 | < 0.5 | |
| 11/12/10 | LFP | 100.00 | | 1.62 | | 98.38 | 67 | <71 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/23/11 | LFP | 100.00 | | 1.73 | | 98.27 | 140 | <73 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | ** |
| 05/06/11 | LFP | 100.00 | | 1.85 | | 98.15 | 160 | 82 | <50 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | |
| 08/18/11 | LFP | 100.00 | | 4.38 | 00 MA | 95.62 | 56 | <74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 11/22/11 | LFP | 100.00 | | 1.58 | | 98.42 | <30 | <70 | <50 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | |
| 02/23/12 | LFP | 100.00 | | 1.65 | | 98.35 | <33 | <77 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 05/25/12 | LFP | 100.00 | | 1.30 | | 98.70 | <29 | <67 | <50 | <0.5 | < 0.5 | < 0.5 | <0.5 | <0.5 | |
| 08/10/12 | LFP | 101.00 | | 4.23 | | 96.77 | <30 | <69 | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | m es | |
| 11/15/12 | LFP | 101.00 | | 1.79 | | 99.21 | 75 | 93 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 02/14/13 | LFP | 101.00 | | 2.17 | | 98.83 | <29 | <67 | <50 | <0.5 | < 0.5 | <0.5 | <1.5 | | |
| 06/01/13 | LFP | 101.00 | | 1.66 | | 99.34 | <28 | <66 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 08/22/13 | LFP | 101.00 | | 4.22 | | 96.78 | <29 | <67 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 11/22/13 | LFP | 101.00 | | 1.66 | == | 99.34 | <30 | <70 | <50 | <0.5 | <0.5 | < 0.5 | <1.5 | | |
| 02/26/14 | LFP | 101.00 | | 1.58 | | 99.42 | <28 | <66 | <50 | 1.0 | <0.5 | 0.8 | <1.5 | | |
| B-9 ⁷ | | | | | | | | | | | | | | | |
| 05/01/02 | | (= rc | == | 444.700 | mi (p) | | 0.660 | 0.310 | 32 | 530 | <100 | 1,600 | 4,300 | | |
| B-10 ⁷ | *** ** ** | | | | | | | | | | | | or transmission accessors | | |
| 05/01/02 | | | | | | | 5.10 | < 0.063 | 26 | 240 | 110 | 240 | 330 | | ins way |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER TIDEWATER SERVICE STATION NO. 303189

7301 Martin Luther King Jr. Way South

Seattle, Washington

Concentrations reported in µg/L

| / | | m o o² | | | l anyon | | icenti ations | Teported II | I I | | | E4LI | Total | | Total |
|-----------------------|--------|------------------|-------|--------------|--------------|---------------------------|---------------|--------------|-----------|---------|-------------|------------|---------|-------|------------|
| Well ID/ | Purge | TOC ² | DTP | DTW | SPHT | GWE ³ | | | | _ | | Ethyl- | Total | | |
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xylenes | MTBE | Lead |
| QA/TRIP BL | ANK | | | | | | | | 4 | | | | | | |
| 04/24/09 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/12/09 | | | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 11/14/09 | | | | | | | | - | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/11/10 | | | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 05/24/10 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 08/04/10 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 11/12/10 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/23/11 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 05/06/11 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/18/11 ⁶ | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 02/23/12 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 05/25/12 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/10/12 | | | | | | - - - | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 11/15/12 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 02/14/13 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 06/01/13 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | - | |
| 08/22/13 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | - | |
| 11/22/13 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | - | |
| 02/26/14 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| | | | | Standard Lat | oratory Repo | orting Limits: | | | 50 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | | | MTCA N | Method A Cle | anup Levels: | 500 | 500 | 800/1,000 | 5 | 1,000 | 700 | 1,000 | 0.5 | 15 |
| | | | | | Curi | ent Method ⁸ : | NWTPH-Dx | x + Extended | | NWT | PH-Gx and U | SEPA 8021B | /8260B | | USEPA 7421 |

Abbreviations:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

DTP = Depth to Product

DTW = Depth to Water

(ft.) = Feet

GC/MS = gas chromatography/mas spectrometry

GWE = Groundwater Elevation

GWE = Gloundwater Elevation

LFP = Low Flow Purge

MTBE = Methyl Tertiary Butyl Ether

MTCA = Model Toxics Control Act

ND = Non-detect

PER = Peristaltic Pump

QA = Quality Assurance/Trip Blank

QC = Quality control

SPH = Separate-phase hydrocarbons

SPHT = SPH Thickness

TOC = Top of Casing

Analytical Methods:

After April 24, 2009 and prior to August 10, 2012 BTEX analysis by USEPA Method 8260B.

TPH-GRO by Method NWTPH-Gx.

TPH-DRO and TPH-HRO by Method NWTPH-Dx with silica-gel cleanup.

BTEX and MTBE by USEPA Method 8021B.

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

 $\mu g/L = Micrograms per liter$

< = The analyte was not detected at or above the reported value

-- = Not Measured/Not Analyzed



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER TIDEWATER SERVICE STATION NO. 303189

7301 Martin Luther King Jr. Way South

Seattle, Washington

Concentrations reported in µg/L

| | | | | _ | | | centrations | reported in | , pg/ 2 | | | T . | | | |
|-----------------------|--------|---------|-------------|---------------|--------------|---------------------------|-------------|--------------|-----------|---------|-------------|------------|---------|-------|------------|
| Well ID/ | Purge | TOC^2 | DTP | DTW | SPHT | GWE ³ | | | | | | Ethyl- | Total | | Total |
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xylenes | MTBE | Lead |
| QA/TRIP BL | ANK | | | | · <u> </u> | | | | | | | | | | |
| 04/24/09 | - | | - | | | | - | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/12/09 | | - | - | | | | | - | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 11/14/09 | | 1 | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/11/10 | | 1 | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 05/24/10 | | - | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/04/10 | | | - | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 11/12/10 | | - | - | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 02/23/11 | | | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 05/06/11 | - 1 | | | ** | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 08/18/11 ⁶ | | | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | < 0.5 | |
| 02/23/12 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 05/25/12 | | | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 08/10/12 | | - | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <1.5 | | |
| 11/15/12 | | - | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 02/14/13 | | - | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <1.5 | | |
| 06/01/13 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 08/22/13 | | | | · | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| 11/22/13 | | | | | | | | | <50 | < 0.5 | <0.5 | <0.5 | <1.5 | | |
| 02/26/14 | | | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | |
| | | | | Standard Lab | oratory Repo | orting Limits: | | | 50 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | | | MTCA N | Method A Cle | anup Levels: | 500 | 500 | 800/1,000 | 5 | 1,000 | 700 | 1,000 | 0.5 | 15 |
| | | | | | Curr | ent Method ⁸ : | NWTPH-Dx | + Extended | · | NWTI | PH-Gx and U | SEPA 8021B | /8260B | | USEPA 7421 |

Abbreviations:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

DTP = Depth to Product

DTW = Depth to Water

(ft.) = Feet

GC/MS = gas chromatography/mas spectrometry

GWE = Groundwater Elevation

LFP = Low Flow Purge

MTBE = Methyl Tertiary Butyl Ether

MTCA = Model Toxics Control Act

ND = Non-detect

PER = Peristaltic Pump

QA = Quality Assurance/Trip Blank

QC = Quality control

SPH = Separate-phase hydrocarbons

SPHT = SPH Thickness

TOC = Top of Casing

Analytical Methods:

After April 24, 2009 and prior to August 10, 2012 BTEX analysis by USEPA Method 8260B.

TPH-GRO by Method NWTPH-Gx.

TPH-DRO and TPH-HRO by Method NWTPH-Dx with silica-gel cleanup.

BTEX and MTBE by USEPA Method 8021B.

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

< = The analyte was not detected at or above the reported value

-- = Not Measured/Not Analyzed



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS¹ FORMER TIDEWATER SERVICE STATION NO. 30-3189

7301 Martin Luther King Jr. Way South
Seattle, Washington
Concentrations reported in µg/L

Notes:

- 1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
- 2 TOC elevations are expressed in feet relative to an arbitrary datum.
- 3 When SPH is present, GWE has been corrected using the following formula: GWE = [(TOC DTW) + (SPHT x 0.80)].
- 4 Not sampled due to insufficient water.
- 5 Laboratory report indicates the surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The TPH-DRO result for the re-extraction is 610 µg/L; the TPH-HRO result for the re-extraction is ND.
- 6 The initial analysis for GCMS volatiles could not be reported due to analytical difficulties. Since only one sample vial was submitted, the analysis was repeated using the remaining sample volume which contained headspace.
- 7 Results for wells B-9 and B-10 were provided by GeoEngineers.
- 8 Laboratory analytical methods for historical data may no be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.





March 10, 2014 G-R #385862

TO:

Ms. Ruth A. Otteman

Leidos, Inc.

18912 North Creek Parkway, Suite 101

Bothell, WA 98011

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6805 Sierra Court, Suite G

Dublin, California 94568

RE: Chevron Facility

#303189

(Former Tidewater Service Stn.) 7301 MLK Jr. Way South Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

| DESCRIPTION |
|---|
| Groundwater Monitoring and Sampling Data Package First Quarter Event of February 26, 2014 |
| |

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/303189

SETTLER-RYAN INC.

| | Facility#: | Chevron | #303189 | | Date: | 2.16.14 | Control Contro |
|--|----------------|--|--|--|--|--|--|
| | Address: | 7301 Mart | in Luther K | ing Jr. Way | / South | | No and the second |
| | City/St.: | Seattle,W/ | | | ************************************** | | |
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| VELLS: | plug, well loc | k, etc.: | | | | and the second of the second of | r, world, wor |
| | Gaskets | Bolts | Well | Well | * A A S | 88 550 | |
| Well ID | (M) Missing | (M) Missing | Plug | Lock | | oll Box er/Size/# of Bolts | Other |
| 8814 | (R) Replaced | (R) Replaced | Y/N | Y/N | | 1 | |
| MW-1 | 6000- | | | ~ > | <u> </u> | orbiex3 | |
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Standard Operating Procedure, Low-Flow Purging and Sampling

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

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

Initial Pump Discharge Test Procedures

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

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T (\pm 10%), pH (\pm 0.1 unit), and Ec (\pm 10 uS) are required to stabilize. Additional parameters that may be required are DO (\pm 0.2 mg/l) and ORP (\pm 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler,

maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

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

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



WELL MONITORING/SAMPLING FIELD DATA SHEET

| Client/Facility# | : Chevron #3031 | 89 | Job Number: | 385862 | | |
|-----------------------|----------------------|---------------------------------|-----------------|--------------------|-------------------------------------|----------------------|
| Site Address: | 7301 Martin Lu | ther King Jr. Way S | Event Date: | 2.2 | 6.14 | - (inclusive) |
| City: | Seattle,WA | | Sampler: | <u></u> | 0 | (|
| | | | Oampier. | | <u> </u> | - |
| Well ID | MW-1 | | Date Monitored: | | 1 | |
| Well Diameter | .75 in. | | | | 14.14 | - |
| Total Depth | 11.62 ft. | Volum Factor | | _ | = 0.17 3"= 0.38 = 1.50 12"= 5.80 | |
| Depth to Water | | Check if water column | | | - 1.50 12 - 5.60 | |
| | 9.63 xVI | Spraying . | | Estimated Purge Vo | nlume: — | gal. |
| Depth to Water | w/ 80% Recharge [(H | eight of Water Column x 0.20) + | DTW: 8.0 | Time Started | | _ gai. (2400 hrs) |
| | | | | Time Comple | | (2400 hrs) |
| Purge Equipment: | : | Sampling Equipment: | | Depth to Pro | duct: | |
| Disposable Bailer | | Disposable Bailer | | Depth to Wa | | ft |
| Stainless Steel Baile | er | Pressure Bailer | | | Thickness: | ft |
| Stack Pump | | Metal Filters | | Visual Confir | mation/Description: | |
| Suction Pump | | Peristaltic Pump | X | | | |
| Grundfos | | QED Bladder Pump | | | sorbant Sock (circl | |
| Peristaltic Pump | X | Other: TUBING | | Amt Remove | d from Skimmer | gal |
| QED Bladder Pump | | | | Water Remove | d from Well: | gai |
| Other: YEC M | 45 666 | | | | sferred to: | |
| | | | | | | |
| Start Time (purg | | Weather Cor | | SUN | | · |
| Sample Time/Da | | | CLEAR | _Odor: Y /N | | |
| Approx. Flow Ra | ate: <u>100</u> mlp | om Sediment De | scription: | NONE | | |
| Did well de-water | er? <u>Nó</u> If yes | , Time: Volun | ne: | gal. DTW @ Sa | mpling: | 40 |
| Time | Volume | L Conductivity | Temperature | D.O. | 000 | Gauge DTW |
| (2400 hr.) | (Liters) | H (umbos/cm-uS) | C F) | (mg/L) | ORP (mV) | as parameters |
| أسم أ | 41. | 440 | | (5.2) | 40 1 | are recorded, |
| 1220 | | 90 392 | 10.27 | 1.19 | 30,6 | 2.20 |
| 1223 | - 4.2 6 | 99 | 19.20 | <u></u> | 34.6 | 2311 |
| 1200 | <u> 4.90 @.</u> | 94 - 3600 | 10.50 | 1.00 | 36.p | 2.40 |
| | - | | | | | |
| | | LABORATORY IN | FORMATION | | | |
| SAMPLE ID | | FRIG. PRESERV. TYPE | LABORATORY | T | ANALYSES | |
| MW- | | YES HCL | LANCASTER | NWTPH-Gx/BTEX(| 8021) | |
| | 2 x 1 liter ambers | YES HCL | LANCASTER | NWTPH-Dx w/sgc | | |
| | | | | | | |
| | | | | | | |
| | <u> </u> | | | | | |
| | | | | | | |
| COMMENTS: | Donth Dumm Cat | ۸4، | | L | | |
| COMMENIA. | Depth Pump Set | ni. 7. | 9 | | | |
| | | | | | | |
| | | | | | | |
| Add/Replaced I | Lock: | Add/Replaced Plug: | | Add/Replaced I | Bolt: | |



WELL MONITORING/SAMPLING FIELD DATA SHEET

| Client/Facility#: | : Chevron #30 | 3189 | | Job Number | : 385862 | |
|---|--|--|--|--|---|--|
| Site Address: | 7301 Martin | Luther I | King Jr. Way S | Event Date: | 2.26.14 | (inclusive) |
| City: | Seattle,WA | | accessors to the second | Sampler: | 44 | () |
| Well ID | MW-1/ | | | 34-34-34 | | A CONTRACTOR OF THE PARTY OF TH |
| Well Diameter | 570 50 | •• | L | ate Monitored | 2.26.14 | |
| Total Depth | *************************************** | 00 | Yolum | | | |
| Depth to Water | | | Factor | | | 30 |
| Depui to vvater | 1.55 ft. | | Check if water column | | | |
| Donth to Water | W/ 909/ Pasharas | _xVF | | x3 case volume | = Estimated Purge Volume: | gal. |
| Deptil to vvater | w/ ou% Recharge | (Height of I | Water Column x 0.20) + | DTWJ: | <u> </u> | |
| Purge Equipment: | | 1/15 | ampling Equipment: | | Time Completed: \40\ | |
| Disposable Bailer | | • | isposable Bailer | | Depth to Product: 1,5 Depth to Water: \ .4 | |
| Stainless Steel Baile | er | | ressure Bailer | *************************************** | Hydrocarbon Thickness: | |
| Stack Pump | | N | letal Filters | | Visual Confirmation/Description | |
| Suction Pump | | þ | eristaltic Pump | | BLACKIOH . TH | |
| Grundfos | Management of the second | | ED Bladder Pump | | Skimmer / Absorbant Sock (ei | |
| Peristaltic Pump | | O | ther: | | Amt Removed from Skimmer: Amt Removed from Well: | |
| QED Bladder Pump Other: | ************************************** | | | | Water Removed: | |
| Quiet | on or the | | | | Product Transferred to: | |
| | | | | | | |
| Start Time (purge | SALVANO TO THE PARTY OF THE PAR | ************************************** | Weather Con | 6900 | | |
| Sample Time/Da | | | Water Color: | PROMPTO CONTROL OF THE PARTY OF THE PARTY. | Odor: Y / N | |
| Approx. Flow Ra | | mlpm | Sediment Des | | | |
| Did well de-wate | r?* | yes, Time: | Volum | 1e: | gal. DTW @ Sampling: | - |
| Time | Volume | The state of the s | Conductivity | Temperature | D.O. ORP | Gauge DTW |
| (2400 hr.) | (Liters) | pН | (µmhos/cm-uS) | (C/F) | D.O. ORP (mg/L) (mV) | as parameters |
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| 100000000000000000000000000000000000000 | er enterentelijerigi, in 1220 departmentelije de | space control of the state of t | *************************************** | | | |
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| | - | | | | | |
| | | | | | | |
| SAMPLEID | (#) CONTAINER | REFRIG. | _ABORATORY INF | FORMATION LABORATORY | Allalizara | |
| MW- | x voa vial | YES | HCL HCL | LANCASTER | ANALYSES NWTPH-Gx/BTEX(8021) | |
| | x 1 liter ambers | YES | HCL | LANCASTER | NWTPH-Dx w/sqc | |
| | | | | The state of the s | | |
| | | | | | | |
| | | | | | | |
| | | | | | | vi muodo |
| COMMENTS: | Depth Pump S | et At: | 5/4 | - 6 1.4 | 66 | 492aii |
| ************************************ | | - | | | | |
| | | | | | | W |
| Add/Replaced L | ock: | Add/f | Replaced Plug: | · · · · · · · · · · · · · · · · · · · | Add/Replaced Bolt: | recovered in |



WELL MONITORING/SAMPLING FIELD DATA SHEET

| Client/Facility# | : Chevron #30 | 03189 | | Job Number: | 385862 | | | |
|-----------------------------------|--------------------|---------------------|----------------------------|-----------------|--------------------|--|---------------------------------------|----|
| Site Address: | 7301 Martin | Luther K | ing Jr. Way S | Event Date: | 1 | 6.14 | - (inclusive) | |
| City: | Seattle,WA | · ·········· | | Sampler: | | 0 | _ (11101001110) | |
| | | | | Sampler. | | 1.k | _ | |
| Well ID | MW-3 | | [| Date Monitored: | | - 1 | | |
| Well Diameter | .75 in | _ _ | | | · | 26.14 | - | |
| Total Depth | 0.37 ft | | Volum Factor | | | = 0.17 3"= 0.38 | | |
| Depth to Water | | - | theck if water colum | • • | | = 1.50 12"= 5.80 | | |
| | 7.79 | | | | Estimated Purge Vo | nlume: — | _ gal. | |
| Depth to Water | w/ 80% Recharge | € [(Height of V | Vater Column x 0.20) ⊀ | DTWI: 5.13 | Time Started | | (2400 hrs) | |
| | _ | | ŕ | | Time Comple | | (2400 hrs) | |
| Purge Equipment: | : | S | ampling Equipment: | | Depth to Pro | | ft | |
| Disposable Bailer | | D | isposable Bailer | | Depth to Wa | ter: | ft | |
| Stainless Steel Bail | er | Pi | ressure Bailer | | | Thickness: | ft | |
| Stack Pump | | | etal Filters | | Visual Confir | mation/Description | : | |
| Suction Pump | | | eristaltic Pump | | Chinamas / Al | | | |
| Grundfos | | | ED Bladder Pump | | | osorbant Sock (circ d from Skimmer: | | |
| Peristaltic Pump QED Bladder Pump | | O ₁ | ther: TUBING | | Amt Remove | d from Well: | gal | |
| Other: 767 M | | | | | Water Remo | | | |
| Outer. 707 TVI | SES | | | | Product Tran | sferred to: | | |
| Start Time (purg | -11 - 4 - 4 | | 14/ | **** | | | | |
| Sample Time/Da | | 4 4/2 1/1 | Weather Cor | | 20N | | | |
| • | | 1.110.14 | Water Color: | | Odor Y N | mus | · · · · · · · · · · · · · · · · · · · | |
| Approx. Flow Ra | | _mlpm | Sediment De | | NONE | | - | |
| Did well de-wate | er? | yes, Time: | | ne: | gal. DTW @ Sa | mpling: | .97 | |
| Time | Volume | -11 | Conductivity | Temperature | D.O. | ORP | Gauge DT | |
| (2400 hr.) | (Liters) | pН | (pmhee/em p3) | (C) / F) | (mg/L.) | (mV) | as paramete are recorde | |
| しろして | 3.10 | 10.006 | . 321 | 11 11 | 1.60 | -98.6 | 1.7d | ;u |
| 1320 | 11.7 | 6.9010 | 310 | 120 | 150 | -43.7 | 1.10 | |
| 1323 | 4.6 | 6.904 | .310 | 1.29 | 1.46 | -95.2 | 1.97 | |
| | | | | | | | | |
| | | | ABODATODY IN | CODMATION | | | | |
| SAMPLE ID | (#) CONTAINER | REFRIG. | ABORATORY IN PRESERV. TYPE | LABORATORY | l | ANALYSES | | |
| MW- 2 | n x voa vial | YES | HCL | LANCASTER | NWTPH-Gx/BTEX(| | | |
| | 2 x 1 liter ambers | YES | HCL | LANCASTER | NWTPH-Dx w/sgc | | | |
| | | | | | | | | |
| | ļ | | | | | | | |
| | <u> </u> | | | | | * | | |
| | | | | | | | | |
| COMMENTS: | Depth Pump S | Set At | 4- | 7 | | | | |
| | _ opin i dimp C | | | | | | · · · · · · · · · · · · · · · · · · · | |
| | | | | | | | | |
| Add/Replaced | l ock: | // A ما ما | Replaced Plug: | | A-1-1/D-1-1-1-1 | | • | |
| Augusta Spieles | LUCK. | AUG/I | NEDIBLEO PILIO: | | Add/Replaced I | KOIT. | | |

Chevron Northwest Region Analysis Request/Chain of Custody

| ಳ್ಳಿ eurofins Lancast Laborate | | | Ac | xct. # | ******************************* | *************************************** | a producer som the same that a same group on | _ Gro | up#_ | urofina ions on r | | | Sa | mple : | # | | | | | ************ | | A State of the Sta | District of the second | |
|--|--|---|--|---------------------------|---|---|--|--|--|---|---|---|--|---|---|----------------|--|--|----------------------------|------------------------------|---|--|---|---|
| (1) Client Ir | nformation | ************** | territat talanan dan da | ********** | T. | 4) | Watri | X X | Ti- | (5) | 1207/2008/SS | 5002312552 | A | nalys | ses l | Real | uest | ed | 92233838 | 277 24440 | | and the second s | Co-manufactus | |
| Facility # SS\$203189-OML G-R3 | %385662 W | BS | | SCHOOL SHOW | *************************************** | SSO MAN | MEN I COME CANADA | | | | ********** | enications. | T T | | CONTRACTOR INCOME. | 5895 VAN | | , market 1884 | CORRECTOR | 1 | | SCR#: | | |
| Site Address 7301 Martin Luther Kin | ig Jr. Way S | South, | SEATTL | e, W | <u> </u> | - 1 | Ø |] | 000000 | | | | | | et et et e | | | | | | | Results in Dry We | w | a |
| Chevron PM MHO LEIC | DOSRO | ad Consu | ltant Rut | h Otto | i | men | Ground | aca | | Napl | | | | Ø | 9 8 | | Method | | | | | J value reporting Must meet lowest | detection | |
| Chevron PM: MHO LEIC Consultant/Office Gettler-Ryan, Inc., 8805 | 5 Sierra Co | urt. Su | ite G. D | ublin. | CA S | Dog Que | Š | 3 | of Containers | 8260 Naphth | | | | NWTPH-Dx with Silica Gel Cleanup | NWTPH-Dx without Silica Gel Cleanup | , | (mount) | | | | | limits possible for compounds | | |
| Consultant Project Mgr. | The state of the s | - Maria All Hamilton (MILIA) | Terrain New Yorkship (1997) | Promotoral etysphistopic | - | | | | l g | ľZ | 1 | y) | | D D | a Ge | | Diss. | | | | 0000 | Confirm MTBE + | | ıø |
| Deanna L. Harding, (de Consultant Phone # | anna@grir | ic.com |) | etristra araz man | - | | | - 1 | Š | 8021 | | Oxygenates | | ica | Silic | WA EPH | | | | | | Confirm highest h | it by 8260 | |
| (925) 551-7444 x180 | | | | r | | | Potable None | | | | | xyge | | 100 H | thout | 3 | L | | | | 2000 | Confirm all hits by | | e hais |
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Attachment B: Laboratory Analysis Report

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601

Chevron 6001 Bollinger Canyon Road L4310 San Ramon CA 94583

March 14, 2014

Project: 303189

Submittal Date: 02/28/2014 Group Number: 1456163 PO Number: 0015144853 Release Number: HOPKINS/HORNE State of Sample Origin: WA

Client Sample Description Lancaster Labs (LL) # OA Water 7378129 MW-1 Grab Groundwater 7378130 MW-3 Grab Groundwater 7378131

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

ELECTRONIC

Gettler-Ryan Inc.

Attn: Gettler Ryan

COPY TO

ELECTRONIC

SAIC

Attn: Jamalyn Green

COPY TO

SAIC

Attn: Ruth Otteman

amek Carts

ELECTRONIC

COPY TO

Amek Carter Specialist

Respectfully Submitted,

(717) 556-7252

Analysis Report

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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: QA Water

Submitted: 02/28/2014 09:10

Facility# 303189 Job# 385862

7301 Martin Luther King Jr Way S - Seattle, WA

LL Sample # WW 7378129

LL Group # 1456163 Account # 11260

Project Name: 303189

Collected: 02/26/2014

Chevron

6001 Bollinger Canyon Road

L4310

Reported: 03/14/2014 09:15 San Ramon CA 94583

| CAT No. | Analysis Name | | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|------------|---------------------|-----------|------------|-----------------------|--|--------------------|
| GC Vo | latiles | ECY 97-60 | 2 NWTPH-Gx | ug/l | ug/1 | |
| 08274 | NWTPH-Gx water C7-C | 12 | n.a. | N.D. | 50 | 1 |
| GC Vo | latiles | SW-846 80 |)21B | ug/l | ug/l | |
| 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 |

General Sample Comments

State of Washington Lab Certification No. C457

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 Tim | ne | Analyst | Dilution Factor |
|------------|--------------------------|-------------------|--------|-----------|--------------------------|-------|-------------------------|--------------------|
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH- | 1 | 14063A53A | 03/05/2014 | 14:31 | Marie D Beamenderfer | 1 |
| 02102 | Method 8021 Water Master | SW-846 8021B | 1 | 14063A53A | 03/05/2014 | 14:31 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 14063A53A | 03/05/2014 | 14:31 | Marie D Beamenderfer | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-1 Grab Groundwater

Facility# 303189 Job# 385862

7301 Martin Luther King Jr Way S - Seattle, WA

LL Sample # WW 7378130

LL Group # 1456163 Account # 11260

Project Name: 303189

Collected: 02/26/2014 12:31

Submitted: 02/28/2014 09:10

Reported: 03/14/2014 09:15

by JP

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

MLKS1

| CAT No. | Analysis Name | | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--------------|--|------------------------|-----------------------|-----------------------|--|--------------------|
| GC Vo | latiles | ECY 97-602 | NWTPH-Gx | ug/l | ug/l | |
| 08274 | NWTPH-Gx water C7-C | 12 | n.a. | N.D. | 50 | 1 |
| GC Vo | latiles | SW-846 802 | 1B | ug/l | ug/l | |
| 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 |
| | troleum carbons w/Si | ECY 97-602 modified | NWTPH-Dx | ug/l | ug/l | |
| 12005 | DRO C12-C24 w/Si Ge | 1 | n,a. | N.D. | 30 | 1 |
| 12005 The | HRO C24-C40 w/Si Ge reverse surrogate, ca | | n.a. present at <1 | N.D. %. | 70 | 1 |

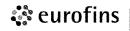
General Sample Comments

State of Washington Lab Certification No. C457

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 Ti | me | Analyst | Dilution Factor |
|------------|---------------------------------|----------------------------------|--------|------------|-------------------------|-------|-------------------------|--------------------|
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH- Gx | 1 | 14063A53A | 03/05/2014 | 21:39 | Marie D Beamenderfer | 1 |
| 02102 | Method 8021 Water Master | SW-846 8021B | 1 | 14063A53A | 03/05/2014 | 21:39 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 14063A53A | 03/05/2014 | 21:39 | Marie D Beamenderfer | 1 |
| 12005 | NWTPH-Dx water w/ 10g Si Gel | ECY 97-602 NWTPH- Dx modified | 1 | 140650016A | 03/11/2014 | 04:58 | Christine E Dolman | 1 |
| 12007 | NW Dx water w/ 10g column | ECY 97-602 NWTPH- Dx 06/97 | 1 | 140650016A | 03/07/2014 | 10:15 | Anna E Stager | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: MW-3 Grab Groundwater

Facility# 303189 Job# 385862

7301 Martin Luther King Jr Way S - Seattle, WA

LL Sample # WW 7378131

LL Group # 1456163

Account # 11260

Project Name: 303189

Submitted: 02/28/2014 09:10

Reported: 03/14/2014 09:15

Collected: 02/26/2014 13:28 by JP Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

MLKS3

| CAT No. | Analysis Name | | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|------------|----------------------|------------------|---------------|-----------------------|--|--------------------|
| GC Vo | latiles | ECY 97-602 | NWTPH-Gx | ug/l | ug/l | |
| 08274 | NWTPH-Gx water C7-C | 12 | n.a. | N.D. | 50 | 1 |
| GC Vo | latiles | SW-846 802 | :1B | ug/l | ug/l | |
| 02102 | Benzene | | 71-43-2 | 1.0 | 0.5 | 1 |
| 02102 | Ethylbenzene | | 100-41-4 | 0.8 | 0.5 | 1 |
| 02102 | Toluene | | 108-88-3 | N.D. | 0.5 | 1 |
| 02102 | Total Xylenes | | 1330-20-7 | N.D. | 1.5 | 1 |
| | troleum | ECY 97-602 | NWTPH-Dx | ug/l | ug/l | |
| Hydro | carbons w/Si | ${\tt modified}$ | | | | |
| 12005 | DRO C12-C24 w/Si Ge | 1 | n.a. | N.D. | 28 | 1 |
| 12005 | HRO C24-C40 w/Si Ge | 1 | n.a. | N.D. | 66 | 1 |
| The | reverse surrogate, c | apric acid, is | present at <1 | ÷ . | | |

General Sample Comments

State of Washington Lab Certification No. C457

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 Tim | e | Analyst | Dilution Factor |
|------------|---------------------------------|----------------------------------|--------|------------|--------------------------|-------|-------------------------|--------------------|
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH- Gx | 1 | 14063A53A | 03/05/2014 | 22:06 | Marie D Beamenderfer | 1 |
| 02102 | Method 8021 Water Master | SW-846 8021B | 1 | 14063A53A | 03/05/2014 | 22:06 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 14063A53A | 03/05/2014 | 22:06 | Marie D Beamenderfer | 1 |
| 12005 | NWTPH-Dx water w/ 10g Si Gel | ECY 97-602 NWTPH- Dx modified | 1 | 140650016A | 03/13/2014 | 09:15 | Christine E Dolman | 1 |
| 12007 | NW Dx water w/ 10g column | ECY 97-602 NWTPH- Dx 06/97 | 1 | 140650016A | 03/07/2014 | 10:15 | Anna E Stager | 1 |

Analysis Report

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Page 1 of 2

Quality Control Summary

Client Name: Chevron

Group Number: 1456163

Reported: 03/14/14 at 09:15 AM

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

| Analysis Name | Blank Result | Blank <u>MDL</u> | Report <u>Units</u> | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--------------------------|-----------------|---------------------|------------------------|-------------|--------------|--------------------|-----|---------|
| Batch number: 14063A53A | Sample numbe | er(s): 737 | 8129-7378 | 131 | | | | |
| Benzene | N.D. | 0.2 | ug/l | 102 | 100 | 80-120 | 2 | 30 |
| Ethylbenzene | N.D. | 0.2 | ug/l | 103 | 101 | 80-120 | 2 | 30 |
| NWTPH-Gx water C7-C12 | N.D. | 50. | ug/l | 109 | 110 | 75-135 | 1 | 30 |
| Toluene | N.D. | 0.2 | ug/l | 103 | 102 | 80-120 | 2 | 30 |
| Total Xylenes | N.D. | 0.2 | ug/l | 106 | 104 | 80-120 | 2 | 30 |
| Batch number: 140650016A | Sample numbe | er(s): 737 | 8130-7378: | 131 | | | | |
| DRO C12-C24 w/Si Gel | N.D. | 30. | ug/l | 55 | 49 | 32-117 | 13 | 20 |
| HRO C24-C40 w/Si Gel | N.D. | 70. | ug/l | | | | | |

Surrogate Quality Control

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

Analysis Name: Method 8021 Water Master

Batch number: 14063A53A

| | Trifluorotoluene-P | Trifluorotoluene-F | |
|---------|--------------------|--------------------|--|
| 7378129 | 75 | 68 | |
| 7378130 | 76 | 68 | |
| 7378131 | 76 | 75 | |
| Blank | 75 | 68 | |
| LCS | 75 | 77 | |
| LCSD | 74 | 76 | |
| Limits: | 51-120 | 63-135 | |

Analysis Name: NWTPH-Dx water w/ 10g Si Gel

Batch number: 140650016A

Orthoterphenyl

| 7378130 | 75 |
|---------|----|
| 7378131 | 84 |
| Blank | 69 |
| LCS | 76 |
| LCSD | 70 |

*- 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.



Analysis Report

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Page 2 of 2

Quality Control Summary

Client Name: Chevron

Group Number: 1456163

Reported: 03/14/14 at 09:15 AM

Surrogate Quality Control

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

🗱 eurofins

Lancaster Laboratories

| Acct. | # | Ì | į | 2 | 6 | 0 |
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For Eurofins Lancaster Laboratories use only
Group # 145 6 16 3 Sample # 737 8 1 2 9 - 3 |
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| Client Information | | B. A. andreina | NAME OF TAXABLE PARTY. | | 6600 5006 535 | anderstander ist | A se sele | | E'\ | | | NO RECORD | anna a | |
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| SS#303189-OML G-R#385862 | | | | _ | , | | | | | | | | | |
| Site Address 7301 Martin Luther King Jr. Way South, SEATTLE, WA Chevron PM Lead Consultant | | | | Naphth [| 1 | | | | | Method | | | | Results in Dry Weight J value reporting needed Must meet lowest detection |
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| Consultant/Office |) ed | Ground Surface | | N 8260 | M | | aunit | . Sea | | | | | | compounds |
| Gettler-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA | 94! | 568 | | 826 | | | Se Se | jej (| | υj | | | | 8021 MTBE Confirmation |
| Consultant Project Mgr. | | | | 8021 | (| တ္ဆ | e. | l g | ᇤᅵ | Diss. | | | | ☐ Confirm MTBE + Naphthalene |
| Deanna L. Harding, (deanna@grinc.com) | | m (n) | | 2 /2 | | nate | ca (| ₩ | WA EPH | | | | | Confirm highest hit by 8260 |
| Consultant Phone # | 4 | Potable NPDES | | 802 | | Oxygenates | 75 | of t | | | | | | Confirm all hits by 8260 |
| (925) 551-7444 x180 | _ | I I | | | <u>_</u> | ŏ | Marit. | 1 \$ | 1_1 | Total | | | | Runoxy's on highest hit |
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| (7) Turnaround Time Requested (TAT) (please circle) Relinquishe | d by | 70 / | | Date | | T | ime , | | Receiv | ed by | CONTRACTOR SECTION | | en e | Date Time 9 |
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| According to the contract of t | emp | erature U | pon R | eceip | 3 | 3.2 | _°C | ************************************** | Cũ | stody | Seals | Intact | t? | (Yes No |



Lancaster Laboratorie

Explanation of Symbols and Abbreviations

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

| RL | Reporting Limit | BMQL | Below Minimum Quantitation Level |
|----------|-----------------------|----------|----------------------------------|
| N.D. | none detected | MPN | Most Probable Number |
| TNTC | Too Numerous To Count | CP Units | cobalt-chloroplatinate units |
| IU | International Units | NTU | nephelometric turbidity units |
| umhos/cm | micromhos/cm | ng | nanogram(s) |
| С | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| μg | microgram(s) | mg | milligram(s) |
| mL | milliliter(s) | L | liter(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| | | pg/L | picogram/liter |

- < 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.
- > greater than
- ppm 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 per liter of gas.
- ppb parts per billion
- Dry weight basis 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 ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

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

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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