Seattle Housing Authority Maint Pkg Lot Release ID: 583079 Vcp: NW 2220 Seattle (Not entered)



FEB 242011 DEPT OF ECOLOGY TCP-NWRO

RECEIVED

February 21, 2011

Ms. Olivia Skance Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, California 94583-5186

Subject:

Second Semi-Annual 2010 Groundwater Monitoring Report

Former Chevron Service Station No. 20-9335

1225 North 45th Street Seattle, Washington

Dear Ms. Skance:

SAIC Energy, Environment & Infrastructure, LLC (hereafter, SAIC), on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the second semi-annual 2010 groundwater monitoring and sampling event at former Chevron Service Station No. 20-9335 (the site) in Seattle, Washington (Figure 1).

FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on November 19, 2010. Gettler-Ryan collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in the five monitoring wells on site.

Groundwater samples were collected from four of the five monitoring wells (SPH were present in MW-7) and submitted to Lancaster Laboratories, Inc. in Pennsylvania for the following analyses:

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

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

FINDINGS

At the time of this monitoring event, groundwater elevations ranged from 170.21 feet above mean sea level (msl) in monitoring well MW-6 to 169.76 feet above msl in monitoring well MW-10. Groundwater potentially flows toward the southeast at a gradient of approximately 0.001 to 0.005 feet per foot (Figure 2). Groundwater elevations decreased an average of 0.09 foot since the previous monitoring event, which was performed on June 9, 2010.

SPH were detected in monitoring well MW-7 at a thickness of 1.26 feet.

The following analyte was detected at concentrations exceeding its Model Toxics Control Act Method A cleanup level:

Total Lead was detected in monitoring wells MW-9 and MW-10.

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

DISCUSSION

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

Petroleum-hydrocarbon constituent concentrations continue to fluctuate with seasonal changes in groundwater elevation. Lower concentrations are typically observed during the November/December sampling events. The total lead concentrations detected in monitoring wells MW-9 and MW-10 are consistent with historical data.

SPH were detected in monitoring well MW-7 at a thickness of 1.26 feet.

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

If you have any questions or comments, please contact me at (425) 482-3319 or via email at langem@saic.com.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC

Michael Lange

Project Manager

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 160th Ave SE, Bellevue, WA 98008-5452

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

Ms. Veronica Redstone – Housing Resources Group 1651 Bellevue Avenue, Seattle, WA, 98122-2014

Project File

PLEASE NOTE: In an effort to adopt practices that reduce negative impacts on the environment, SAIC is in the process of transitioning to an electronic distribution of all Groundwater Monitoring Reports. Please contact me at (425) 482-3319 or via email at langem@saic.com if you would be willing to accept an electronic copy of this report in lieu of a hard copy; in the absence of a response we will continue to provide you a hard copy.





Maps Provided by Seattle.gov



Former Chevron Service Station No. 20-9335 1225 North 45th Street Seattle, Washington FIGURE 1 Vicinity Map

FILE NAME: 20-9335 Vicinity Map.dwg

E: 01/20/2011

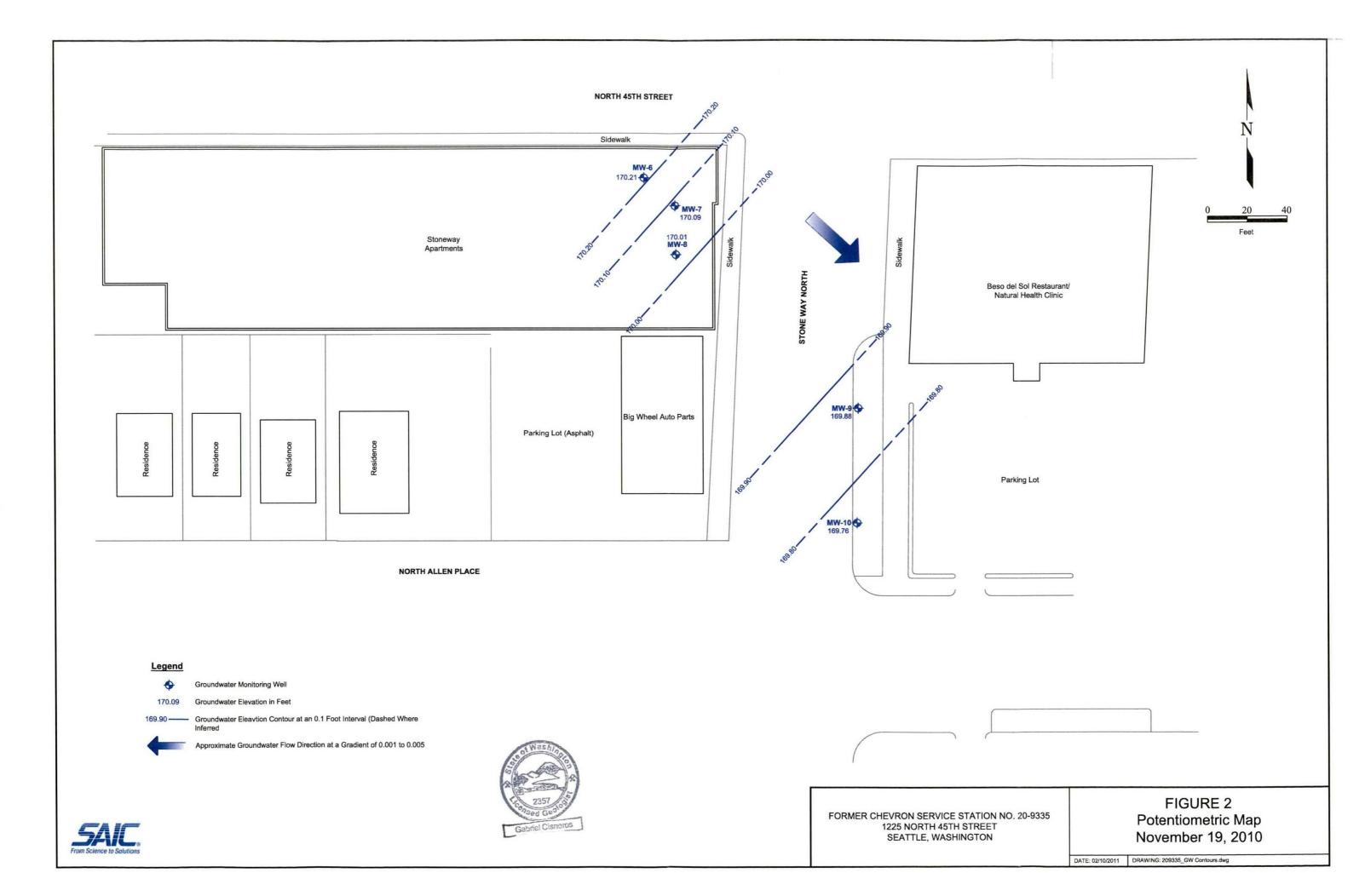


TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

| | Purge Aethod | TOC* | DTP | DTW | | | | | | | | | | | |
|-----------|-----------------|--------|---------|-------|---------------|--------------|------------------|----------------------|---------------------|-------------|---------|---------|-------------------|------|---------|
| MW-6 | rection | (ft.) | (ft.) | (ft.) | SPHT (ft.) | GWE (ft.) | TRU DRO | трн-нго | TRU CRO | n | | Ethly- | Total | | |
| | | (11.) | (11.) | (11.) | (11.) | (11.) | TPH-DRO | 1PH-HRU | TPH-GRO | Benzene | Toluene | benzene | Xylenes | MTBE | T. Lead |
| | | 197.18 | | 36.74 | 0.00 | 160.44 | 680 | 98 | 1500 | -0.5 | 0.7 | | | | |
| 05/03/07 | | 197.18 | | 36.74 | 0.00 | 160.44 | 1000 | | 1500 | <0.5 | 0.7 | 1.2 | 37 | | |
| 06/16/09 | | | INACCES | | | 100.44 | | 130 | 380 | 29 | 1 | 4 | 30 | | |
| | NP | 197.18 | INACCES | 27.46 | 0.00 | 169.72 | 270 ³ | <70 ³ | | | | | | | |
| | NP | 197.18 | | 27.55 | | | | | <50 | <0.5 | < 0.5 | < 0.5 | <1.5 | | 22.9 |
| | NP | 197.18 | | | 0.00 | 169.63 | 35 ³ | <69 ³ | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | 0.76 |
| | NP NP | 197.18 | | 26.84 | 0.00 | 170.34 | 360 ³ | <340 ^{3,12} | 5,900 ¹³ | < 0.5 | < 0.5 | < 0.5 | 350 ¹³ | | 13.2 |
| MW-7 | NP | 197.18 | | 26.97 | 0.00 | 170.21 | 240 | 81 | 750 | < 0.5 | < 0.5 | < 0.5 | 11 | | 3.7 |
| 02/09/06 | | 107.40 | 27.07 | 20.15 | 0.20 | | | | | | | | | | |
| 05/03/07 | | 197.42 | 37.87 | 38.17 | 0.30 | 159.49** | | | | | | | | | |
| | | 197.42 | 26.55 | 27.80 | 0.00 | 169.62** | | | | | | | | | |
| 06/16/09 | - | | INACCES | SIBLE | | | | | | | | | | | |
| 07/01/09 | | 197.42 | 27.39 | 10 | 10 | 10 | | | | ENCE OF SPI | | | | | |
| 12/11/09 | | 197.42 | 27.50 | 11 | 11 | 11 | | | | ENCE OF SPI | | | () | | |
| 06/09/109 | | 197.42 | 27.03 | 28.20 | 1.17 | 170.16** | | | | ENCE OF SPI | | | | | |
| 11/19/10 | | 197.42 | 27.08 | 28.34 | 1.26 | 170.09** | NOT SAMP | LED DUE TO | THE PRESI | ENCE OF SPH | I | | | | |
| MW-8 | | | | | | | | | | | | | | | |
| 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 | 940 | < 200 | 2600 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | |
| 06/16/09 | | 197.35 | INACCES | SIBLE | | | | | | | | | | | |
| 07/01/09 | NP | 197.35 | | 27.84 | 0.00 | 169.51 | 390 ³ | <700 ³ | 430 | < 0.5 | < 0.5 | < 0.5 | 2.2 | | 3.5 |
| 12/11/09 | NP | 197.35 | | 27.91 | 0.00 | 169.44 | 300 ³ | <69 ³ | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | 7.3 |
| | NP | 197.35 | | 27.21 | 0.00 | 170.14 | 280 ³ | 180^{3} | 350 | <0.5 | < 0.5 | <0.5 | <1.5 | | 16.5 |
| 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 |
| MW-9 | | | | | | | | | | | | | 1.0 | | 5.1 |
| 05/03/07 | | 208.11 | | 36.74 | 0.00 | 171.37 | <400 | <500 | <50 | <0.5 | < 0.5 | 4 | 18 | 1 | |
| 06/16/09 | | 208.11 | | 38.72 | 0.00 | 169.39 | | | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | 19.3 |
| 07/01/09 | NP | 208.11 | | 38.03 | 0.00 | 170.08 | <313 | <713 | | | | | | | 17.5 |
| 12/11/09 | NP | 208.11 | | 38.86 | 0.00 | 169.25 | 76 ³ | <69 ³ | <50 | <0.5 | < 0.5 | <0.5 | <1.5 | | 14.5 |
| 06/09/10 | NP | 208.11 | | 38.17 | 0.00 | 169.94 | 42 ³ | 1103 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | _ | 21.2 |
| 11/19/10 | | 208.11 | | 38.23 | 0.00 | 169.88 | <29 | 130 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | | 18.7 |



TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

| Well ID/ | Purge | TOC* | DTP | DTW | SPHT | GWE | | rations repo | tea in pg/2 | | | Ethly- | Total | | |
|-----------|--------|--------|---------|--------|-------|----------|------------------------|---------------------|-------------|-------------|---------|---------|---------|---------------------------------|---------------------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xvlenes | MTBE | T. Lead |
| MW-10 | | | | | | | | | | | | | | | |
| 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 | INACCES | SSIBLE | | | | | | | | | | | |
| 07/01/09 | NP | 207.29 | | 38.72 | 0.00 | 168.57 | <30 ³ | <69 ³ | < 50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | 10.9 |
| 12/11/09 | NP | 207.29 | | 35.91 | 0.00 | 171.38 | 49 ³ | <69 ³ | < 50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | 13.4 |
| 06/09/10 | NP | 207.29 | | 37.48 | 0.00 | 169.81 | 50 ³ | 88 ³ | < 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 | | 18.8 |
| MW-1 | | | | | | | | | | | | | | | |
| 10/11/001 | | 97.95 | | 34.50 | | 63.45 | | | | | | | | | |
| 12/16/00 | | 97.95 | | 35.91 | 0.00 | 62.04 | ND ^{2,3} | $ND^{2,3}$ | 74.4 | ND | ND | ND | ND | ND | ND^4 |
| 03/26/01 | | 97.95 | | 36.54 | 0.00 | 61.41 | ND ³ | ND^3 | ND | ND | ND | ND | ND | ND | |
| 06/25/01 | | 97.95 | | 36.78 | 0.00 | 61.17 | <281 ³ | <842 ³ | < 50.0 | < 0.500 | < 0.500 | < 0.500 | <1.00 | | |
| 09/24/01 | | 97.95 | | 37.14 | 0.00 | 60.81 | <250 ^{3,8} | $<500^{3.8}$ | <50.0 | < 0.500 | < 0.500 | < 0.500 | <1.00 | | |
| 12/13/01 | | 97.95 | | 37.25 | 0.00 | 60.70 | <250 ³ | $<500^{3}$ | <80.0 | < 0.500 | < 0.500 | < 0.500 | <1.00 | | 7. |
| 03/08/02 | NP | 97.95 | | 36.79 | 0.00 | 61.16 | <250 ³ | $<750^{3}$ | < 50 | < 0.50 | < 0.50 | < 0.50 | <1.5 | | |
| 05/29/02 | | 97.95 | | 36.44 | 0.00 | 61.51 | SAMPLED S | SEMI-ANNU | ALLY | | | | | | 19441 |
| 09/16/02 | NP | 97.95 | | 36.71 | 0.00 | 61.24 | $<250^3$ | $<250^{3}$ | < 50 | < 0.50 | < 0.50 | < 0.50 | <1.5 | | |
| 12/05/02 | | 97.95 | | 37.09 | 0.00 | 60.86 | SAMPLED S | SEMI-ANNU | ALLY | | | | | | () == () |
| 03/04/03 | NP | 97.95 | | 37.26 | 0.00 | 60.69 | <250 ³ | $<250^{3}$ | 100 | < 0.50 | < 0.50 | < 0.50 | <3.0 | | |
| 06/03/03 | | 97.95 | | 37.09 | 0.00 | 60.86 | SAMPLED S | SEMI-ANNU | ALLY | | | | | | |
| 10/27/03 | | 97.95 | | 37.42 | 0.00 | 60.53 | NOT SAMP | LED DUE TO |) INSUFFIC | IENT WATER | | | | | |
| 03/31/04 | NP | 97.95 | | 37.12 | 0.00 | 60.83 | <800 ³ | $<1,000^3$ | < 50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 06/28/04 | | 97.95 | | 37.14 | 0.00 | 60.81 | SAMPLED S | SEMI-ANNU | ALLY | | | | | | 9 1 |
| 09/29/04 | | 97.95 | | 37.50 | 0.00 | 60.45 | NOT SAMP | LED DUE TO |) INSUFFIC | IENT WATER | | | | | |
| 01/04/05 | | 97.95 | | 37.61 | 0.00 | 60.34 | SAMPLED S | SEMI-ANNU | ALLY | | | | | | |
| ABANDO | NED | | | | | | | | | | | | | | |
| MW-2 | | | | | | | | | | | | | | | |
| 10/11/001 | | 98.70 | | 34.50 | | 64.20 | | | | | | | | | |
| 12/16/00 | | 98.70 | | 36.46 | 0.00 | 62.24 | $1,000^3$ | ND^3 | 28,100 | 283 | 2,560 | 693 | 4,020 | ND ² | 0.00194^4 |
| 03/26/01 | | 98.70 | | 37.12 | 0.00 | 61.58 | 1,180 ^{3,5} | ND^3 | 17,000 | 143 | 1,450 | 378 | 2,180 | ² ND/ND ⁶ | |
| 06/25/01 | | 98.70 | | 37.37 | 0.00 | 61.33 | 418 ^{3,5} | <750 ³ | 11,700 | 92.3 | 547 | 181 | 1,010 | | |
| 09/24/01 | | 98.70 | | 37.72 | 0.00 | 60.98 | 4,840 ^{3,7,8} | <557 ^{3,8} | 22,100 | 120 | 1,380 | 658 | 4,100 | | |
| 12/13/01 | | 98.70 | | 37.89 | 0.00 | 60.81 | 5,540 ^{3,5} | <500 ³ | 84,000 | 185 | 3,960 | 1,590 | 9,950 | | |
| 03/08/02 | | 98.70 | 37.24 | 38.00 | 0.76 | 61.31*** | NOT SAMPI | LED DUE TO | THE PRES | ENCE OF SPI | | | | | |
| 05/29/02 | | 98.70 | 36.81 | 37.54 | 0.73 | 61.74*** | NOT SAMPI | LED DUE TO | THE PRES | ENCE OF SPI | | | | | |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

| Well ID/ | Purge | TOC* | DTP | DTW | SPHT | GWE | Concent | rations repo | rtea in µg/L | | | Ethly- | Total | T T | |
|-----------|--------|-------|-------|-------|---------|----------|---------------------|---------------------|--------------|-------------|---------|---------|---------|-------|---------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xvlenes | МТВЕ | T. Lead |
| MW-2 (co | nt) | | | | (===) | () | TITI DILO | TIN III | TH-GRO | Benzene | Toluche | Denzene | Aylenes | MIIDE | 1. Leau |
| 09/16/02 | | 98.70 | 37.19 | 37.61 | 0.42 | 61.43*** | NOT SAME | LED DUE T | O THE PRES | ENCE OF SPI | | | | I I | |
| 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 SAME | LED DUE T | O THE PRES | ENCE OF SPI | | | | | |
| 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 | | | VEHICLE | PARKED O | VER 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 SAMP | LED DUE TO | O THE PRES | ENCE OF SPH | I | | | | |
| 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*** | | | | 14-1 | | | | | |
| 10/27/03 | | 98.70 | 37.54 | 39.98 | 2.44 | 60.67** | NOT SAMP | LED DUE TO | O THE PRES | ENCE OF SPH | I | | | | |
| 11/17/03 | | 98.70 | 37.10 | 37.58 | 0.48 | 61.50** | | | | | | | (4-1) | | |
| 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 SAMP | LED DUE TO | THE PRES | ENCE OF SPH | [| | | | |
| 06/28/04 | | 98.70 | 37.32 | 39.05 | 1.73 | | | | | ENCE 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 SAMP | LED DUE TO | THE PRES | ENCE 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 SAMP | LED DUE TO | THE PRES | ENCE OF SPH | | | | | |
| 01/14/05 | | 98.70 | 37.49 | 39.02 | 1.53 | 60.90** | | | | | | | | | |
| ABANDO | NED | | | | | | | | | | | | | | |
| MW-3 | | | | | | | | | | | | | | | |
| 10/11/001 | | 98.76 | | 34.00 | | 64.76 | | | | | | | | | (==) |
| 12/16/00 | | 98.76 | | 36.39 | 0.00 | 62.37 | ND ³ | ND^3 | ND | ND | 0.612 | ND | 1.95 | ND | ND^4 |
| 03/26/01 | | 98.76 | | 37.05 | 0.00 | 61.71 | ND^3 | ND^3 | ND | ND | ND | ND | ND | ND | |
| 06/25/01 | | 98.76 | | 37.29 | 0.00 | 61.47 | <250 ³ | <750 ³ | <50.0 | < 0.500 | < 0.500 | < 0.500 | <1.00 | | |
| 09/24/01 | | 98.76 | | 37.64 | 0.00 | 61.12 | <250 ^{3,8} | <500 ^{3,8} | <50.0 | < 0.500 | < 0.500 | < 0.500 | <1.00 | | |
| 12/13/01 | | 98.76 | | 37.78 | 0.00 | 60.98 | <250 ³ | <500 ³ | <80.0 | < 0.500 | < 0.500 | < 0.500 | <1.00 | | |
| 03/08/02 | NP | 98.76 | | 37.28 | 0.00 | 61.48 | <250 ³ | <750 ³ | 320 | < 0.50 | 0.64 | 2.1 | 15 | | |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

| Well ID/ | Purge | TOC* | DTP | DTW | SPHT | GWE | | rations repo | I | | | Ethly- | Total | | |
|-----------|--------|-------|-------|-------|-------|----------|---------------------|---------------------|-----------|-------------|---------|---------|-----------|-----------------|---------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xvlenes | MTBE | T. Lead |
| MW-3 (co | nt) | | | | | • | | | | | | | 1-71-01-0 | | |
| 05/29/02 | | 98.76 | | 36.92 | 0.00 | 61.84 | SAMPLED | SEMI-ANNU | JALLY | | | | | | |
| 09/16/02 | NP | 98.76 | | 37.21 | 0.00 | 61.55 | <250 ³ | <250 ³ | <50 | < 0.50 | < 0.50 | < 0.50 | <1.5 | | |
| 12/05/02 | | 98.76 | | 37.58 | 0.00 | 61.18 | SAMPLED | SEMI-ANNU | JALLY | | | | | | |
| 03/04/03 | NP | 98.76 | | 37.79 | 0.00 | 60.97 | <250 ³ | $<250^3$ | <50 | < 0.50 | < 0.50 | < 0.50 | <1.5 | | |
| 06/03/03 | | 98.76 | | 37.68 | 0.00 | 61.08 | SAMPLED | SEMI-ANNU | JALLY | | | | | | |
| 10/27/03 | NP | 98.76 | | 38.00 | 0.00 | 60.76 | <250 ³ | <250 ³ | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 03/31/04 | NP | 98.76 | | 37.65 | 0.00 | 61.11 | <800 ³ | $<1,000^3$ | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 06/28/04 | | 98.76 | | 37.68 | 0.00 | 61.08 | SAMPLED | SEMI-ANNU | JALLY | | | | | | |
| 09/29/04 | NP | 98.76 | | 38.01 | 0.00 | 60.75 | <250 ³ | <250 ³ | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 01/04/05 | | 98.76 | | 38.19 | 0.00 | 60.57 | SAMPLED : | SEMI-ANNU | JALLY | | | | | | |
| ABANDO | NED | | | | | | | | | | | | | | |
| MW-4 | | | | | | | | | | | | | | | |
| 10/11/001 | | 98.52 | | 35.00 | | 63.52 | | | | 0==1 | | | | | |
| 12/16/00 | | 98.52 | | 36.35 | 0.00 | 62.17 | ND ^{2,3} | $ND^{2,3}$ | 58,200 | 326 | 5,520 | 1,430 | 8,520 | ND ² | 0.01234 |
| 03/26/01 | | 98.52 | | 37.00 | 0.00 | 61.52 | 266 ^{3,5} | ND^3 | 27,200 | 178 | 2,160 | 785 | 4,160 | 2ND/ND6 | |
| 06/25/01 | | 98.52 | | 37.25 | 0.00 | 61.27 | <250 ³ | <750 ³ | 12,300 | 69.0 | 654 | 416 | 1,910 | | |
| 09/24/01 | | 98.52 | | 37.60 | 0.00 | 60.92 | <250 ^{3,8} | <500 ^{3,8} | 4,130 | 30.1 | 154 | 197 | 684 | | |
| 12/13/01 | | 98.52 | | 37.72 | 0.00 | 60.80 | <250 ³ | <500 ³ | 5,490 | 30.3 | 175 | 177 | 679 | | |
| 03/08/02 | NP | 98.52 | | 38.36 | 0.00 | 60.16 | <250 ³ | <750 ³ | 9,000 | < 50 | 150 | 170 | 710 | | |
| 05/29/02 | NP | 98.52 | | 36.86 | 0.00 | 61.66 | <250 ³ | <750 ³ | 6,700 | 22 | 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 ³ | $<250^3$ | 7,500 | 46 | 230 | 240 | 630 | | |
| 12/05/02 | NP | 98.52 | | 37.53 | 0.00 | 60.99 | <250 ³ | $<250^3$ | 14,000 | 73 | 400 | 540 | 1,500 | | |
| 03/04/03 | | 98.52 | 36.68 | 36.71 | 0.03 | 61.83*** | NOT SAMP | LED DUE TO | THE PRESI | ENCE OF SPI | Н | | | | |
| 06/03/03 | | 98.52 | 36.59 | 36.63 | 0.04 | 61.92*** | NOT SAMP | LED DUE TO | THE PRESI | ENCE OF SPI | H | | | | |
| 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 ³ | <500 ³ | 2,200 | 16 | 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 ³ | <250 ³ | 3,900 | 14 | 96 | 110 | 340 | | |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

| Well ID/ | Purge | TOC* | DTP | DTW | SPHT | GWE | Concent | rations repo | rtea in μg/L | Ι | | Ethly- | Total | Т | |
|-----------|--------|-------|---------|----------|-------|----------|-----------------------|-------------------|--------------|--------------|---------|---------|---------|---------|------------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xvlenes | MTBE | T. Lead |
| MW-4 (co | nt) | | | | | | | | | | | | 1 | | |
| 06/28/04 | NP | 98.52 | | 37.54 | 0.00 | 60.98 | <250 ³ | <250 ³ | 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 ³ | <250 ³ | 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 | 1,6003 | <250 ³ | 1,600 | 10 | 13 | 60 | 110 | | |
| 01/14/05 | | 98.52 | | 37.58 | 0.00 | 60.94 | | | | | | | | | |
| ABANDO | NED | | | | | | | | | | | | | | |
| MW-5 | | | | | | | | | | | | | | | |
| 10/11/001 | | 99.42 | | 34.50 | ~~ | 64.92 | | | | | | | | | |
| 12/16/00 | | 99.42 | | 37.18 | 0.00 | 62.24 | 5,0803 | ND^3 | 146,000 | ND^2 | 15,100 | 4,160 | 24,100 | ND^2 | 0.0200^4 |
| 03/26/01 | | 99.42 | | 37.91 | 0.00 | 61.51 | 77,900 ^{3,5} | ND^3 | 149,000 | 256 | 10,600 | 4,000 | 24,200 | 2ND/ND6 | |
| 06/25/01 | | 99.42 | | 38.14 | 0.00 | 61.28 | $109,000^3$ | $<18,100^3$ | 127,000 | 210 | 9,580 | 3,730 | 21,500 | | |
| 09/24/01 | | 99.42 | 38.40 | 38.44 | 0.04 | 61.01*** | NOT SAMP | LED DUE TO | O THE PRES | SENCE OF SPI | | | | | |
| 12/13/01 | | 99.42 | 38.55 | 38.59 | 0.04 | 60.86*** | NOT SAMP | LED DUE TO | O THE PRES | SENCE OF SPI | | | | | |
| 03/08/02 | | 99.42 | 37.96 | 38.46 | 0.50 | 61.36*** | NOT SAMP | LED DUE TO | O THE PRES | SENCE OF SPI | | | | | |
| 05/29/02 | | 99.42 | 37.60 | 38.05 | 0.45 | 61.73*** | NOT SAMP | LED DUE TO | O THE PRES | SENCE OF SPI | | | | | |
| 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 SAMP | LED DUE TO | O THE PRES | SENCE OF SPI | | | | | |
| 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 SAMP | LED DUE TO | THE PRES | SENCE OF SPI | | | | | |
| 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 SAMP | LED DUE TO | THE PRES | SENCE OF SPI | | | | | |
| 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 SAMP | LED DUE TO | THE PRES | SENCE OF SPI | | | | | |
| 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 DE | | UCTED | | | | | | | | | | |
| 11/17/03 | | 99.42 | 37.87 | 38.17 | 0.30 | 61.49** | | | | | | | | | |
| 12/31/03 | | 99.42 | WELL DE | RY/OBSTR | UCTED | | | | | | | | | | |
| 02/09/04 | | 99.42 | WELL DR | RY/OBSTR | UCTED | | | | | | | | | | |
| 03/04/04 | | 99.42 | WELL DE | RY/OBSTR | UCTED | | | | | | | | | | |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

| Well ID/ | Purge | TOC* | DTP | DTW | SPHT | GWE | | | | | | Ethly- | Total | | |
|----------|--------|-------|---------|----------|---------------------------|--------------|------------------|------------|-----------|---------|-------------|------------|---------|------|------------|
| Date | Method | (ft.) | (ft.) | (ft.) | (ft.) | (ft.) | TPH-DRO | TPH-HRO | TPH-GRO | Benzene | Toluene | benzene | Xylenes | MTBE | T. Lead |
| MW-5 (co | nt) | | | | | | | | | | • | | | - | |
| 03/31/04 | | 99.42 | | RY/OBSTI | | | | | | | | | | | |
| 06/28/04 | | 99.42 | | RY/OBSTI | | | | | | | | | | | |
| 09/11/04 | | 99.42 | | RY/OBSTI | | | | | | | | | | | |
| 09/29/04 | | 99.42 | WELL DI | RY/OBSTI | RUCTED | | | | | | | | | | |
| 11/22/04 | | 99.42 | WELL DI | | | | | | | | | | | | |
| 01/04/05 | | 99.42 | WELL DI | RY/OBSTI | RUCTED | | | | | | | | | | |
| 01/14/05 | | 99.42 | WELL DI | RY/OBSTI | RUCTED | | | | | | | | | | |
| ABANDO | | | | | | | | | | | | | | | |
| TRIP BLA | NK | | | | | | | | | | | | | | |
| 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 | | |
| QA | | | | | | | | | | | | | | | |
| 03/31/04 | | | | | | | | | < 50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 06/28/04 | | | 4-1 | | | | | | < 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 | | | | | | | 2 44 5 (1 | | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 06/09/10 | | | | | | | | | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 11/19/10 | | | | | | | | | <50 | < 0.5 | < 0.5 | < 0.5 | <1.5 | | |
| 7 | | | Stand | | | ting Limits: | | | 50 | 0.5 | 0.5 | 0.5 | 1.5 | | 0.00100 |
| | | | | M | All and the second second | od A CULs: | 500 | 500 | 800/1,000 | .5 | 1,000 | 700 | 1,000 | 20 | |
| 15. | | | | | Curre | ent Method: | NWTPH-Dx | + Extended | | NWT | PH-Gx and U | JSEPA 8021 | | | USEPA 6020 |



GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER CHEVRON SERVICE STATION NO. 20-9335

1225 North 45th Street

Seattle, Washington

Concentrations reported in µg/L

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to December 16, 2000, were compiled from reports prepared by Delta Environmental Consultants Inc. Groundwater monitoring data and laboratory analytical results for February 9, 2006, and May 3, 2007, events were compiled from reports prepared by SAIC.

TOC = Top of Casing

TPH-DRO = TPH as Diesel-Range Organics

QA = Quality Assurance/Trip Blank

(ft.) = Feet

TPH-HRO = TPH as Heavy Oil-Range Organics

MTCA = Model Toxics Control Act Cleanup Regulations

DTP = Depth to Product

TPH-GRO = TPH as Gasoline-Range Organics

CULs = Cleanup levels

DTW = Depth to Water

MTBE = Methyl Tertiary Butyl Ether

LNAPL = Light Non-Aqueous Phase Liquid

GWE = Groundwater Elevation

T. Lead = Total Lead

 $SPH = Separate\ Phase\ Hydrocarbon$

ND = Not Detected

SPHT = Separate Phase Hydrocarbon Thickness

NP = No Purge

TPH = Total Petroleum Hydrocarbons

-- = Not Measured/Not Analyzed

- * TOC elevations provided by SAIC. TOC elevations are referenced to mean sea level.
 - TOC elevations have been provided by Delta Environmental Consultants, Inc. referenced to an assumed datum in feet.
- ** GWE has been corrected for the presence of SPH; correction factor = [(TOC DTW) + (SPHT x 0.80)]
- *** GWE has been corrected for the presence of SPH; correction factor = [(TOC DTP SPHT) + (SPHT x 0.80)]; Historical data has been altered to correct error in original reporting of depth to product as depth to water.
- Data provided by Delta Environmental Consultants, Inc.
- 2 Detection limit raised. Refer to analytical reports.
- 3 Analyzed with silica-gel cleanup.
- 4 Filtered at the laboratory.
- 5 Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.
- 6 MTBE by USEPA Method 8260.
- 7 Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- 8 Laboratory report indicates the sample was prepared outside of the method established holding time.
- 9 Skimmer in well.
- 10 Interface probe could not detect LNAPL/Groundwater Interface, unable to gauge hydrocarbon thickness and calculate corrected GWE. From visual confirmation estimate thickness to be approximately 1.5 feet.
- 11 Interface probe could not detect LNAPL/Groundwater Interface, unable to gauge hydrocarbon thickness and calculate corrected GWE. From visual confirmation estimate thickness to be approximately 2.25 feet.
- 12 Laboratory report indicates due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.
- 13 Laboratory confirmed result.



Attachment A: Groundwater Monitoring and Sampling Data Package



December 1, 2010 G-R #386750

TO:

Mr. Michael Lange

SAIC

18912 North Creek Parkway, Suite 101

Bothell, WA 98011

FROM:

Deanna L. Harding

Project Coordinator

Gettler-Ryan Inc. 6747 Sierra Court, Suite J

Dublin, California 94568

RE: Former Chevron Service Station

#209335

1225 North 45th Street Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES

DESCRIPTION

VIA PDF

Groundwater Monitoring and Sampling Data Package Second Semi-Annual Event of November 19, 2010

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

| | CHEVRON - S | ITE CHE | CKILICT | | |
|--------------------------------------|-----------------------------------|--|-------------|---------------|---------------|
| | OHEARON - 3 | | ~V F12.1 | | |
| Facility#: | Chevron #209335 | | Date: //- | 10-10 | |
| Address: | 1225 N. 45Th Street | | - Julio. 11 | 14-10 | |
| City/St.: | Seattle, WA | | | - | |
| Status of Site: | APARTMENT GARAGE | /Str | EWAI | | - |
| Please list belo location of drun | M YER DIVOINIO (SIG. 1.6., CITIL | n description | , condition | , labeling, c | ontents, |
| # | Description | Condition | Labeling | Contents | Location |
| | 1/0 | | | | |
| | 770 | | | | |
| | DRUM5 | | | | |
| Please check the | Le condition of ALL WELLS @ s | ite: i.e., well | box condit | ion, well plu | g, well lock, |
| Well ID | Well Box | Bolts | Well Plug | Well Lock | Other |
| MW-6 | 01/ | OK | OV | OK | |
| MW-7 | | | 1 | 1 | |
| MW-8 | | - | | | |
| MW-9 MW-10 | | | -(// | | |
| 10104-10 | | V | | V | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | - <u>-</u> |
| | | | | | |
| | | | | | |
| | | | | | _ |
| | | | | | |
| dditional Comm | ents/Observations: | <u></u> | | | |
| | | | | | |
| | | | | | |

DRUMS:

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.

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.



| | 1225 N. 45Th Seattle, WA MW- 6 2 in. 38,35 ft. 26,97 ft. ×/ 80% Recharge [(f | Voi Fac Check if water colu | Event Date: Sampler: Date Monitored: Jume 3/4"= 0. ctor (VF) 4"= 0. Jumn is less then 0.5 | .02 1"= 0.04 2"= 0.17 : .66 5"= 1.02 6"= 1.50 1: | (inclusive) 3"= 0.38 2"= 5.80 |
|---|---|---------------------------------------|---|---|-------------------------------------|
| Well ID Well Diameter Total Depth Depth to Water Depth to Water | MW-6 2 in. 38,35 ft. 26,97 ft. | Check if water colu | Sampler: Date Monitored: lume 3/4"= 0. ctor (VF) 4"= 0. umn is less then 0.5 | | 3"= 0.38 |
| Well Diameter Total Depth Depth to Water Depth to Water w | 2 in. 38,35 ft. 26,97 ft. | Check if water colu | Date Monitored: dume 3/4"= 0. ctor (VF) 4"= 0. umn is less then 0.5 | .02 1"= 0.04 2"= 0.17 : .66 5"= 1.02 6"= 1.50 1: | |
| Well Diameter Total Depth Depth to Water Depth to Water w | 2 in. 38,35 ft. 26,97 ft. | Check if water colu | tume 3/4"= 0. ctor (VF) 4"= 0. umn is less then 0.5 | .02 1"= 0.04 2"= 0.17 : .66 5"= 1.02 6"= 1.50 1: | |
| Total Depth Depth to Water Depth to Water w | 38,35 ft. 26,97 ft. | Check if water colu | tume 3/4"= 0. ctor (VF) 4"= 0. umn is less then 0.5 | .02 1"= 0.04 2"= 0.17 : .66 5"= 1.02 6"= 1.50 1: | |
| Depth to Water | 76,97 ft. | Check if water colu | ctor (VF) 4"= 0. umn is less then 0.5 | .66 5"= 1.02 6"= 1.50 12 | |
| Depth to Water w | 76,97 ft. | Check if water colu | umn is less then 0.5 | 1.00 | z – 5.60 j |
| Depth to Water w | x\ | VF=_ | | | |
| | # 80% Recharge [(i | | X3 case volume : | = Estimated Purge Volume: | gal. |
| Purge Equipment: | | deight of Water Column x 0.20 | 0) + DTWJ: | Time Started: | /0.400 |
| | | Sampling Equipmen | nt- | Time Completed: | (2400 hrs) |
| Disposable Bailer | , | Disposable Bailer | " ~ | Depth to Product: | ft |
| Stainless Steel Bailer | / | Pressure Bailer | | Depth to Water: | ft |
| Stack Pump | | | | Hydrocarbon Thickness: | |
| Suction Pump | / | Discrete Bailer | | Visual Confirmation/Des | cription: |
| Grundfos | / | Peristaltic Pump QED Bladder Pump | | Skimmer / Absorbant So | als (alsola ana) |
| Peristaltic Pump | -/ | | | Amt Removed from Skirr | umer sal |
| QED Bladder Pump | -/ | Other: | | Amt Removed from Well | gal gal |
| Other: | | | | Water Removed: | |
| Outer | | | | Product Transferred to: | |
| Approx. Flow Rate Did well de-water? Time (2400 hr.) | Volume | | Description: ume: Temperature (C) / F) | gal. DTW @ Sampling: | |
| | | <u></u> | | | |
| | | + — | | | |
| | | | | | |
| SAMPLE ID | (#) CONTAINER RE | LABORATORY II EFRIG. PRESERV. TYPE | | 1 | |
| | ~ | YES HCL | | ANALYSES NWTPH-Gx/BTEX(8021) | |
| | | YES HCL | | NWTPH-Dx w/sgc | |
| MW- (a | x 1 liter ambers | · ; ; ; iou | | 1 1. 22 mage | |
| MW- (o | | ,,,, | | TOTAL LEAD (ICP/MS 6020) | |
| MW- (a | " | | | TOTAL LEAD (ICP/MS 6020) | |
| MW- (a | " | ,,,, | | TOTAL LEAD (ICP/MS 6020) | |
| MW- (a | " | ,,,, | | TOTAL LEAD (ICP/MS 6020) | |
| MW-6 | x 500ml poly | YES HNO3 | | TOTAL LEAD (ICP/MS 6020) | |
| MW-6 | " | YES HNO3 | | TOTAL LEAD (ICP/MS 6020) | |
| MW-6 | x 500ml poly | YES HNO3 | | TOTAL LEAD (ICP/MS 6020) | |
| MW-6 | x 500ml poly | YES HNO3 | | TOTAL LEAD (ICP/MS 6020) | |



| Client/Facility#; | Cnevron #209335 | | Job Number: | 386750 | | |
|------------------------|--------------------------|------------------------------|--------------------------------|-------------------|---|---------------|
| Site Address: | 1225 N. 45Th Stre | et | Event Date: | 11-10- | 10 | (imply-sis-s) |
| City: | Seattle, WA | | Sampler: | | · | - |
| | | | | | | _ |
| Well ID | MW/ | | Date Monitored: | 11-19- | 10 | |
| Well Diameter | 2 in. | Volur | 248 24 | | | - |
| Total Depth | 41.62 ft. | | ne 3/4"= 0.0 r (VF) 4"= 0.6 | | 2"= 0.17 3"= 0.3 6"= 1.50 12"= 5.8 | - (|
| Depth to Water | 28.34 ft. | Check if water colum | | | - 1.55 12 - 5.61 | 1 |
| | xVF_ | | | | Volume: — | |
| Depth to Water v | v/ 80% Recharge [(Height | of Water Column x 0.20) | + DTW]: | _confolice dige | Volume: | _gal. |
| | | | | Time Start | | (2400 hrs) |
| Purge Equipment: | | Sampiing Equipment: | | Time Com | pleted: | (2400 hrs) |
| Disposable Bailer | / | Disposable Bailer | | Depth to V | roduct: <u>27.00</u> /ater: <u>28.34</u> | f |
| Stainless Steel Bailer | | Pressure Bailer | | Hydrocarb | on Thickness: | 76 ft |
| Stack Pump | | Discrete Baller | | Visual Con | firmation/Description | |
| Suction Pump | | Peristallic Pump | | BROW | <i>i N</i> | Į. |
| Grundfos | -/ | QED Bladder Pump | | Şkimmer/ | Absorbant Back (circ | e one) |
| Peristaltic Pump | / | Other: | | Amt Remo | ved from Skimmer:_ ved from Well: | |
| QED Bladder Pump | | | | Water Rem | oved: | gal |
| Other: | · | | | Product Tra | insferred to: | |
| Chart Time (| | | | | | |
| Start Time (purge) | | _ Weather Cor | | | | |
| Sample Time/Date | | _ Water Color: | | Odor: Y / N | | |
| Approx. Flow Rate | | Sediment De | scription: | - | | |
| Did well de-water? | If yes, Tig | ne: Volur | ne: | gal. DTW@S | ampling: | |
| Time | Volume | Conductivity | | 1 | _ | |
| (2400 hr.) | (gal.) pH | Conductivity (µmhos/cm - µS) | Pemperature (C/F) | D.O. (mg/L) | ORP | |
| ` / | | | (- / , / | (""9"2) | (mV) | |
| | | | . | -\ | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SAMPLE ID | (#) CONTAINER REFRIG | LABORATORY IN | FORMATION LABORATORY | · | ANALYSES - | |
| MW- | x voa vial XES | HCL HCL | | NWTPH-GWBTEX | ANALYSES | |
| | YAS YAS | HCL | LANCASTER | NWTPH-Dx w/sgc | ,0021) | |
| | x 500ml poly YES | HNO3 | | TOTAL LEAD (ICP | MS 6020) | |
| | | | Z IIVO, IO I Z IV | / CALVETTE (101) | 10020) | - |
| | | | | | | |
| | | | | | | |
| | 701/ 100 | | | | | |
| COMMENTS: | 3PH - NO | SKIMME | R PRES | ENT I | N WEL | L - |
| | , t | | | | | |
| | | | | | | |
| Add/Replaced Loc | ck: Add | d/Replaced Plug: | | Add/Replaced I | Polt. | |
| - | | | | ruwnepiaced i | DOIC . | |



| Disposable Baller Staintess Steel Bailer Stack Pump Discrete Bailer Suction Pump Grundfos Grundfos Grundfos Grundfos Grindfos Grindfos Grundfos Gru | Client/Facility#: | Chevron #2093 | 35 | job Number | : 386750 | |
|--|-------------------|----------------------|-------------------------|----------------|---|---|
| Math | Site Address: | 1225 N. 45Th S | treet | Event Date: | 11-19-10 | (inclueixo) |
| Volume | City: | Seattle, WA | | | | (inclusive) |
| Volume | Well ID | MW-8 | | Date Monitored | 11-10-10 | |
| Total Depth Volume Volume | Well Diameter | | ; | | | |
| Depth to Water 27.34 ft. Check if water column is less then 0.50 ft. x/F = x3 case votume = Estimated Purge Volume: gal. Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): Time Sampling Equipment: Disposable Bailer Stack Pump Disposable Bailer Stack Pump Discrete Bailer Double In Mark Pump Discrete Bailer Stack Pump Discrete Bailer Double In Mark Pump Discrete Bailer Stack Pump Discrete Bailer Double In Mark Pump Discrete Bailer Double In Mark Pump Discrete Bailer Stack Pump Discrete Bailer Double In Mark Pump Di | Total Depth | | | _ | 44 | |
| Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): Time Started: (2400 hr.) Disposable Bailer Disposabl | • | | Check if water | | | 2"= 5.80 |
| Purge Equipment: Disposable Bailer Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Grundfos Grundfos Geb Bladder Pump Other: Start Time (purge): Star | | xVI | F | x3 case volume | | gal. |
| Purge Equipment: Disposable Baller Disposable Baller Disposable Baller Stainless Steel Baller Stack Pump Discrete Baller Stack Pump Discrete Baller Stack Pump Discrete Baller Stack Pump Other. Peristatilic Pump QED Bladder Pump Other. Start Time (purge): Sample Time/Date: Sample Time/Date: Did well de-water? Wolume (2400 hr.) SAMPLE ID SAMPLE | Depth to Water | w/ 80% Recharge ((He | eight of Water Column x | 0.20) + DTWJ: | 7 N N N N N N N N N N N N N N N N N N N | ه د د د د د د د د د د د د د د د د د د د |
| Disposable Bailer Stairless Steel Bailer Stariless Steel Bailer Stack Pump Discrete Bailer Suction Pump Grundfos Grundfo | Purge Equipment: | | Samoling Equip | ment: | | (2400 hrs) |
| Stainless Steel Baller Stack Pump Discrete Baller Discrete Bal | Disposable Bailer | / | | | Depth to Product: | |
| Stack Pump Suction Pump Grundfos Grundf | | · / | | · —— | Depth to Water: | A |
| Suction Pump Grundfos Peristatific Pump QED Bladder Pump Other. Start Time (purgs): Sample Time/Date: Approx. Flow Rate: Did well de-water? Volume (gal.) PH Conductivity (gal.) PH Conductivity (gmhos/cm - µS) Time (2400 hr.) SAMPLE ID SAMPL | _ | /- | | | Hydrocarbon Thickness: | <u></u> ft |
| Grundfos Peristaltic Pump QED Bladder Pump Other. Start Time (purge): Sample Time/Date: Did well de-water? Volume (2400 hr.) SAMPLE ID SAM | • | / | | _ | Visual Confirmation/Des | cription: |
| Peristatic Pump QED Bladder Pump Other. Start Time (purge): Sample Time/Date: Approx. Flow Rate: gpm. Sediment Description: Uolume: (2400 hr.) SamPLE ID SAM | • | / | • | | Shirman (About 10) | |
| GED Bladder Pump Other: Start Time (purge): Sample Time/Date: Approx. Flow Rate: Did well de-water? Volume (2400 hr.) Sample ID (#) CONTAINER REFRIG. REFRIG. REFRIG. REFRIG. REFRIG. RESERV. TYPE LABORATORY (NFORMATION SAMPLE ID (#) CONTAINER REFRIG. REFRIG. REFRIG. REFRIG. REFRIG. RESERV. TYPE LABORATORY REFRIG. REFRI | | / | - | · | Amt Removed from Skin | ck (circle one) |
| Other: Start Time (purge): Sample Time/Date: Approx. Flow Rate: gpm. Sediment Description: Volume: [2400 hr.] Sample ID Water Color: | • | | Other | | Amt Removed from Well | nmer:gar |
| Start Time (purge): Sample Time/Date: Did well de-water? Sediment Description: Conductivity Sediment Description: Conductivity Temperature D.O. ORP (2400 hr.) (gal.) PH Conductivity Temperature Conductivity (mg/L) (mV) SAMPLE ID | | | | | Water Removed: | · gar |
| Sample Time/Date: | Other: | | | • | | |
| SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 0 3 x voa vial YES HCL LANCASTER NWTPH-Gx/BTEX(8021) Z x 1 liter ambers YES HCL LANCASTER NWTPH-Dx w/sgc / x 500ml poly YES HNO3 LANCASTER TOTAL LEAD (ICP/MS 6020) | Time | Volume | H Conductivity | Temperature | D.O. ORP | • |
| MW- 6 3 x voa vial YES HCL LANCASTER NWTPH-Gx/BTEX(8021) Z x 1 liter ambers YES HCL LANCASTER NWTPH-Dx w/sgc / x 500ml poly YES HNO3 LANCASTER TOTAL LEAD (ICP/MS 6020) | SAMPLE ID | (#) CONTAINED DE | LABORATOR | YINFORMATION | | |
| Z×1 liter ambers YES HCL LANCASTER NWTPH-05/BTEX(8021) (x 500ml poly YES HNO3 LANCASTER TOTAL LEAD (ICP/MS 6020) | | | | | | , |
| / x 500ml poly YES HNO3 LANCASTER TOTAL LEAD (ICP/MS 6020) | | | | | NW PH-Gx/BTEX(8021) | |
| | | | , | | | |
| COMMENTO. 10 DIDGG | | X South poly Y | ES HNO3 | LANCASTER | TOTAL LEAD (ICP/MS 6020) | |
| COMMENTO. 10 DIDGG | | | | | | |
| COMMENTO. 10 DIDGG | | | | | | |
| COMMENTS: 110 PURSE | COMMENTS: | NO PURC | ne | | | |
| Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt: | Add/Replaced Lo | ck: | Add/Replaced Plus | 1. | Add/Parland Date: 1977 | |



| Client/Facility#: | Chevron #20933 | <u> </u> | Job Number | : 386750 | |
|---|-----------------------------|-----------------------------------|-------------------------------|---|-------------------------------|
| Site Address: | 1225 N. 45Th St | reet | Event Date: | 11-19-10 | (inclusive) |
| City: | Seattle, WA | | Sampler: | ml | |
| Well ID | MW-9 | | Date Monitored | : 11-19-10 | |
| Well Diameter | 2 in. | Ĺ. | /olume 3/4"= 0 | | 17 81 8 8 |
| Total Depth | 41.51 ft. | | actor (VF) 4"= 0 | | |
| Depth to Water | | Check if water co | | | |
| Depth to Water | xVF w/ 80% Recharge [(He | ght of Water Column x 0. | x3 case volume 20) + DTW]: | = Estimated Purge Volume | gal. |
| Purge Equipment: | | Sampling Equipm | | Time Started: | (2400 hrs) |
| Disposable Bailer | / | Disposable Bailer | X | Depth to Product | <u></u> ft |
| Stainless Steel Baile | · | Pressure Bailer | | | |
| Stack Pump | | Discrete Bailer | - | Hydrocarbon Thic Visual Confirmation | :kness:ft |
| Suction Pump | | Peristaltic Pump | | # | • |
| Grundfos | -/ | QED Bladder Pump | | Skimmer / Absort | ant Sock (circle one) |
| Peristaltic Pump | | Other: | | Amt Removed fro | m Skimmer: gal m Well: gal |
| QED Bladder Pump | | | | Water Removed: | m vveii: gal |
| Other: | | | | Product Transferre | ed to: |
| Approx. Flow Rat Did well de-water Time (2400 hr.) | | Time:V | Temperature | gal. DTW @ Sampli | ng: <u>38.23</u> ORP (mV) |
| SAMPLE ID | (#) CONTAINER REF | LABORATORY RIG. PRESERV. TYP | INFORMATION PE LABORATORY | | Voge |
| MW- 9 | 3 x voa vial YE | | LANCASTER | NWTPH-Gx/BTEX(8021) | YSES |
| | Z x 1 liter ambers YE | | | NWTPH-Dx w/sgc | |
| | / x 500ml poly YE | S HNO3 | LANCASTER | TOTAL LEAD (ICP/MS 60 | 20) |
| COMMENTS: | NO PLA | DEN | | | |
| Add/Replaced Lo | | Add/Replaced Plug: | | Add/Replaced Bolt | |



| Client/Facility#: | Chevron #209335 | <u> </u> | Job Number | : 386750 | |
|---|-------------------------------------|---|-----------------------------|--|------------------|
| Site Address: | 1225 N. 45Th Stre | et | Event Date: | 11-19-10 | — (inclusive) |
| City: | Seattle, WA | | Sampler: | ML | (mordaive) |
| Well ID | MW- //2 | | Date Monitored | | - |
| Well Diameter | 2 in. | | · | : 11-19-10 | = , |
| Total Depth | 38. 6 ft. | Volur Facto | πe 3/4"= 0 or (VF) 4"= 0 | | |
| Depth to Water | 37,53 ft [| Check if water colun | | | 80 |
| | xVF_ | | | = Estimated Purge Volume: | 1 |
| Depth to Water v | // 80% Recharge [(Heigh | t of Water Column x 0.20) | + DTW]: | Louisace Targe Volume. | gal. |
| | | | • | Time Started: | (2400 hrs) |
| Purge Equipment: Disposable Bailer | | Sampling Equipment: | ~ | Time Completed: Depth to Product: | (2400 hrs) |
| Stainless Steel Bailer | | Disposable Bailer | | Depth to Water: | ft |
| Stack Pump | / - | Pressure Bailer Discrete Bailer | | Hydrocarbon Thickness: | ft |
| Suction Pump | | Peristaltic Pump | | Visual Confirmation/Description | n: |
| Grundfos | | QED Bladder Pump | | Skimmer / Absorbant Sock (ci | rcle one) |
| Peristaltic Pump | | Other: | | Amt Removed from Skimmer: | gal |
| QED Bladder Pump | | | | Amt Removed from Well: Water Removed: | |
| Other: | | | | Product Transferred to: | |
| Start Time (purge) Sample Time/Date Approx. Flow Rate Did well de-water? Time (2400 hr.) | e: <u>//55 / //- 19-</u> gpm. | Weather Cor Water Color Sediment De me: Volur Conductivity (µmhos/cm - µS) | Clar escription: | Odor: Y (N) Odor: Y (N) Odor: Y (N) gal. DTW @ Sampling: 37 D.O. ORP (mg/L) (mV) | 53 |
| 04401 5 (5 | | LABORATORY IN | FORMATION | | |
| | (#) CONTAINER REFRIC | | LABORATORY | ANALYSES | |
| | x voa vial YES x 1 liter ambers YES | HCL HCL | LANCASTER LANCASTER | NWTPH-Gx/BTEX(8021) NWTPH-Dx w/sgc | |
| | x 500ml poly YES | HNO3 | LANCASTER | TOTAL LEAD (ICP/MS 6020) | |
| | | | | , | |
| | | | | | |
| | | | | | |
| COMMENTS: | NO PUL | 19E | | | |
| Add/Replaced Loc | ck: Ad | d/Replaced Plug: | | Add/Replaced Bolt: | |

Chevron Northwest Region Analysis Request/Chain of Custody

For Lancaster Laboratories use only

CCD#



| vvnere quality is a science. | | | | | | | | | | | A | naly | ses | Req | ues | ted | | | | | | |
|---|-------------------|-------------------------------|------------------|--------------|-------------------|---------|----------------------------|--|----------------|------------|---|------------------------------|--------------|----------------|-------------|-------|----|-------|----|--|---|--------------------------------------|
| Facility #: 55#209335-OML G-R#386 Site Address: 1225 N. 45th Street, SEA Chevron PM: Lead | TLE, WA | SAICPC | Cat | ten | Matr | ix | | H | | | H | rese | rvat | lon | Cod | les | | | | Preserv H = HCl N = HNO ₃ S = H ₂ SO ₄ | T = Thic B = NaC O = Oth | sulfate OH |
| Consultant/Office: G-R, Inc., 6747 Sierra Consultant Prj. Mgr.: Deanna L. Harding (de Consultant Phone #: 925-551-7555 Sampler: MILL LOVIDA & | annawymin | COHIT | 899 | | Potable In Nappes | Oil Air | Total Number of Containers | BTEX + MTBE 8021 X 8260 □ Naphth | l scan | Oxygenates | \ / II | WWAPH & D Silica Gel Cleanup | 8 | | WIPH H HCID | | | | | J value repor Must meet lo possible for 8 8021 MTBE Co Confirm MTB Confirm high | ting neede west detect 3260 comp nfirmation E + Napht est hit by 8 | d etion limits ounds halene |
| Sample Identification | Date Collected | Time Collected | Grab | Comi | Soil | Oil | Total | BTEX + | 8260 full scan | | OUL | NEV | Lead Total (| УРН/ЕРН | HALMN | | | | | Run ox | | |
| MW-6 Alw-8 Mw-9 Mw-10 | 11.19-10 | 1055 1030 1135 1155 | X X X X | | X | | 1966 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | X X X X | × | | | | | | | Please forwardirectly to the | rd the lab r | |
| Turnaround Time Requested (TAT) (please circles STD. TAT 72 hour 48 hour 24 hour 4 day 5 day | a) | Relinqui | 12 | | | | | | | 1/-1 | ate ate | 16 | ime ime | 1 | | ved b | | | | | Date | Time |
| Data Package Options (please circle if required) QC Summary Type i - Fuil Disk / EDD Standard Format Other. | EDP/ED | Relinqui Relinqui UPS Tempera | shed b | y Co FedE | x | Ott | ner | | • | Da | ate | T | ime | Re | eceiv | ved b | y: | intac | t? | Yes No | Date | Time |

Acct. #:

Attachment B: Laboratory Analysis Report



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

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

December 03, 2010

Project: 209335

Submittal Date: 11/20/2010 Group Number: 1222290 PO Number: 0015061199 Release Number: SKANCE State of Sample Origin: WA

| Client Sample Description | Lancaster Labs (LLI) # |
|---------------------------|------------------------|
| QA Water Sample | 6147108 |
| MW-6 Grab Water Sample | 6147109 |
| MW-8 Grab Water Sample | 6147110 |
| MW-9 Grab Water Sample | 6147111 |
| MW-10 Grab Water Sample | 6147112 |

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

ELECTRONIC

SAIC c/o Gettler-Ryan

Attn: Rachelle Munoz

COPY TO

SAIC

ELECTRONIC COPY TO

Attn: Mike Lange



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

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

Respectfully Submitted,

Sarah M. Snyder Senior Specialist



Longenecker

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

Page 1 of 1

Sample Description: QA Water Sample

Facility# 209335 1225 N. 45th Street - Seattle, WA LLI Sample # WW 6147108 LLI Group #,1222290 # 11260 Account

Project Name: 209335

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

Collected: 11/19/2010

Submitted: 11/20/2010 09:15 Reported: 12/03/2010 12:55

45SQA

| 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/1 | 1 |
| 08274 | NWTPH-Gx water C | 7-C12 | n.a. | N.D. | 50 | 1 . |
| GC Vo | latiles | SW-846 | 8021B | ug/1 | ug/1 | |
| 05879 | Benzene | | 71-43-2 | N.D. | 0.5 | 1 |
| 05879 | Ethylbenzene | | 100-41-4 | N.D. | 0.5 | 1 |
| 05879 | Toluene | | 108-88-3 | N.D. | 0.5 | 1 |
| 05879 | Total Xylenes | | 1330-20-7 | N.D. | · 1.5 | 1 |
| | | | | | | • |

General Sample Comments

State of Washington Lab Certification No. C259

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

| | | Taboraco | гу ра | шрте мияту | sis kecord | | |
|------------|-----------------------|-------------------------|--------|------------|---------------------------|--------------------------|--------------------|
| CAT No. | Analysis Name | Method I | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH- Gx | 1 | 10327B53A | 11/24/2010 18:55 | Katrina T Longenecker | 1 |
| 05879 | BTEX Water | SW-846 8021B | 1 | 10327B53A | 11/24/2010 18:55 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10327B53A | 11/24/2010 18:55 | Katrina T | 1 |



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

Page 1 of 1

Sample Description: MW-6 Grab Water Sample

Facility# 209335 Job# 386750 1225 N. 45th Street - Seattle, WA LLI Sample # WW 6147109 LLI Group # 1222290 Account # 11260

Project Name: 209335

Collected: 11/19/2010 10:55

Submitted: 11/20/2010 09:15

Reported: 12/03/2010 12:55

by ML

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

45S06

| 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-C12 | n.a. | 750 | 50 | 1 |
| GC Vo | latiles SW-846 | 8021B | ug/l | ug/l | |
| 05879 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 05879 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 05879 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 05879 | Total Xylenes | 1330-20-7 | 11 | 1.5 | 1 |
| GC Ex | tractable TPH ECY 97- | 602 NWTPH-Dx | ug/l | ug/l | |
| w/Si | Gel modifie | d | | - | |
| 02211 | DRO C12-C24 w/Si Gel | n.a. | 240 | 31 | 1 |
| 02211 | HRO C24-C40 w/Si Gel | n.a. | 81 | 71 | 1 |
| Metal | SW-846 | 6020 | ug/l | ug/l | |
| 06035 | Lead | 7439-92-1 | 3.7 | 0.052 | 1 |

General Sample Comments

State of Washington Lab Certification No. C259

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

| Laboratory | Sample | Analysis | Record |
|------------|--------|----------|--------|
|------------|--------|----------|--------|

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | | Analyst | Dilution |
|------------|-----------------------------------|----------------------------------|--------|---------------|-------------------------|-------|--------------------------|-------------|
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 10327B53A | 11/24/2010 | 23:46 | Katrina T Longenecker | Factor 1 |
| 05879 | BTEX Water | SW-846 8021B | 1 | 10327B53A | 11/24/2010 | 23:46 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10327B53A | 11/24/2010 | 23:46 | Katrina T Longenecker | 1 |
| 02211 | NWTPH-Dx water w/Si Gel | ECY 97-602 NWTPH- Dx modified | 1 | 103330022A | 12/01/2010 | 11:10 | Melissa McDermott | 1 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH- Dx 06/97 | 1 | 103330022A | 11/30/2010 | 06:30 | Roman Kuropatkin | 1 |
| 06035 | Lead | SW-846 6020 | 1 | 103266050001A | 11/30/2010 | 09:45 | Choon Y Tian | 1 |
| 06050 | ICP/MS SW-846 Water Digest | SW-846 3010A modified | 1 | 103266050001 | 11/22/2010 | 20:30 | Mirit S Shenouda | 1 |



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

Page 1 of 1

Sample Description: MW-8 Grab Water Sample

 LLI Sample # WW 6147110 LLI Group # 1222290 Account # 11260

Project Name: 209335

Collected: 11/19/2010 10:30

Submitted: 11/20/2010 09:15

Reported: 12/03/2010 12:55

by MI

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

45S08

| CAT No. | Analysis Name | | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|------------|------------------|---------|--------------|-----------------------|--|--------------------|
| | latiles | | 602 NWTPH-Gx | ug/l | ug/l | • |
| 08274 | NWTPH-Gx water C | 7-C12 | · n.a. | 94 | 50 | 1 |
| C Vo | latiles | SW-846 | 8021B | ug/l | ug/l | |
| 05879 | Benzene · | | 71-43-2 | N.D. | 0.5 | • |
| 05879 | Ethylbenzene | | 100-41-4 | N.D. | 0.5 | 1 |
| 05879 | Toluene | | 108-88-3 | N.D. | 0.5 | 1 |
| 05879 | Total Xylenes | | 1330-20-7 | N.D. | 1.5 | 1 |
| | tractable TPH | | 602 NWTPH-Dx | ug/l | ug/l | |
| 7/Si | Gel | modifie | d. | | | |
| 02211 | DRO C12-C24 w/Si | | n.a. | 320 · | 31 | 1 |
| 02211 | HRO C24-C40 w/Si | Gel | n.a. | 120 | . 72 | 1 |
| (etal: | 5 | :SW-846 | 6020 | ug/l | ug/1 | |
| 06035 | Lead | | 7439-92-1 | 3.4 | 0.052 | 1 |

General Sample Comments

State of Washington Lab Certification No. C259

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

| | : | Laborato | ry Sa | umple Analysi | s Record | | , | |
|------------|-----------------------------------|----------------------------------|-------|---------------|-------------------------|-------|--------------------------|--------------------|
| CAT No. | Analysis Name | Method T | rial# | Batch# | Analysis Date and Ti | me | Analyst | Dilution Factor |
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH- Gx | 1 | 10327B53A | 11/25/2010 | 00:10 | Katrina T Longenecker | 1 |
| 05879 | BTEX Water | SW-846 8021B | 1 | 10327B53A | 11/25/2010 | 00:10 | Katrina T Longenecker | 1 |
| 01146 | | SW-846 5030B | 1 | 10327B53A | 11/25/2010 | 00:10 | Katrina T Longenecker | 1 |
| 02211 | NWTPH-Dx water w/Si Gel | ECY 97-602 NWTPH- Dx modified | 1 | 103330022A | 12/01/2010 | 11:53 | Melissa McDermott | 1 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH- Dx 06/97 | 1 | 103330022A | 11/30/2010 | 06:30 | Roman Kuropatkin | 1 |
| 06035 | Lead . | SW-846 6020 | 1. | 103266050001A | 11/30/2010 | 09:47 | Choon Y Tian | 1 |
| 06050 | ICP/MS SW-846 Water Digest | SW-846 3010A modified | 1 | 103266050001 | 11/22/2010 | 20:30 | Mirit S Shenoùda | ī |



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

Page 1 of 1

Sample Description: MW-9 Grab Water Sample

Facility# 209335 Job# 386750 1225 N. 45th Street - Seattle, WA LLI Group # 1222290 Account # 11260

LLI Sample # WW 6147111

Project Name: 209335

Collected: 11/19/2010 11:35

Submitted: 11/20/2010 09:15

Reported: 12/03/2010 12:55

by ML

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

45S09

| 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 | -C12 | n.a. | N.D. | 50 | 1 | |
| GC Vo | latiles | SW-846 | 8021B | ug/l | ug/l | | |
| 05879 | Benzene | | 71-43-2 | N.D. | 0.5 | 1 | |
| 05879 | Ethylbenzene | | 100-41-4 | N.D. | 0.5 | 1 | |
| 05879 | Toluene | | 108-88-3 | N.D. | 0.5 | 1 | |
| 05879 | Total Xylenes | | 1330-20-7 | N.D. | 1.5 | 1 | |
| GC Ex | tractable TPH | ECY 97 | -602 NWTPH-Dx | ug/l | ug/l | | |
| w/Si | Gel | modifi | ed | | | | |
| 02211 | DRO C12-C24 w/Si | Gel | n.a. | N.D. | 29 | 1 | |
| 02211 | HRO C24-C40 w/Si | Gel | n.a. | 130 | 68 | ī | |
| Metal | S | SW-846 | 6020 | ug/l | ug/l | | |
| 06035 | Lead | | 7439-92-1 | 18.7 | 0.052 | 1 | |
| | | | | | | | |

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

| CAT | Analysis Name | Method | Trial# | Batch# | Analysis | | Analyst | Dilution |
|-------|-----------------------------------|---------------------------------|--------|---------------|-------------|-------|--------------------------|----------|
| No. | | | | | Date and Ti | .me | | Factor |
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH Gx | - 1 | 10327B53A | 11/25/2010 | 00:34 | Katrina T Longenecker | 1 |
| 05879 | BTEX Water | SW-846 8021B | 1 | 10327B53A | 11/25/2010 | 00:34 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10327B53A | 11/25/2010 | 00:34 | Katrina T Longenecker | 1 |
| 02211 | NWTPH-Dx water w/Si Gel | ECY 97-602 NWTPH Dx modified | - 1 | 103330022A | 12/01/2010 | 12:14 | Melissa McDermott | 1 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH Dx 06/97 | - 1 | 103330022A | 11/30/2010 | 06:30 | Roman Kuropatkin | 1 |
| 06035 | Lead | SW-846 6020 | 1 | 103266050001A | 11/30/2010 | 09:49 | Choon Y Tian | 1 |
| 06050 | ICP/MS SW-846 Water Digest | SW-846 3010A modified | 1 | 103266050001 | 11/22/2010 | 20:30 | Mirit S Shenouda | 1 |



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

Page 1 of 1

Sample Description: MW-10 Grab Water Sample

 LLI Sample # WW 6147112 LLI Group # 1222290 Account # 11260

Project Name: 209335

Collected: 11/19/2010 11:55

by ML

Chevron

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

reported. 12/0

Submitted: 11/20/2010 09:15 Reported: 12/03/2010 12:55

45S10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|------------|------------------------|-------------|-----------------------|--|--------------------|
| GC Vo | latiles ECY 97-6 | 02 NWTPH-Gx | ug/l | ug/l | |
| 08274 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 50 | 1 |
| GC Vo | latiles SW-846 8 | 021B | ug/l | ug/l | |
| 05879 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 05879 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 05879 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 05879 | Total Xylenes | 1330-20-7 | N.D. | 1.5 | 1 |
| C Ex | tractable TPH ECY 97-6 | 02 NWTPH-Dx | ug/l | ug/l | |
| /Si | | | | • | |
| 02211 | DRO C12-C24 w/Si Gel | n.a. | N.D. | 29 | 1 |
| 02211 | HRO C24-C40 w/Si Gel | n.a. | 74 | 67 | 1 |
| Metal | SW-846 6 | 020 | ug/l | ug/l | |
| 06035 | Lead | 7439-92-1 | | | |
| 00000 | Dodd | 1439-92-1 | 18.8 | 0.052 | 1 |

General Sample Comments

State of Washington Lab Certification No. C259

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

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | .me | Analyst | Dilution Factor |
|------------|-----------------------------------|----------------------------------|--------|---------------|-------------------------|-------|--------------------------|--------------------|
| 08274 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH Gx | - 1 | 10327B53A | 11/25/2010 | 00:58 | Katrina T Longenecker | 1 |
| 05879 | BTEX Water | SW-846 8021B | 1 | 10327B53A | 11/25/2010 | 00:58 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10327B53A | 11/25/2010 | 00:58 | Katrina T Longenecker | 1 |
| 02211 | NWTPH-Dx water w/Si Gel | ECY 97-602 NWTPH- Dx modified | - 1 | 103330022A | 12/01/2010 | 12:36 | Melissa McDermott | 1 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH- Dx 06/97 | 1 | 103330022A | 11/30/2010 | 06:30 | Roman Kuropatkin | 1 |
| 06035 | Lead | SW-846 6020 | 1 | 103266050001A | 11/30/2010 | 09:51 | Choon Y Tian | 1 |
| 06050 | ICP/MS SW-846 Water Digest | SW-846 3010A modified | 1 | 103266050001 | 11/22/2010 | 20:30 | Mirit S Shenouda | 1 |



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

Page 1 of 2

Quality Control Summary

Client Name: Chevron

Reported: 12/03/10 at 12:55 PM

Group Number: 1222290

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

Laboratory Compliance Quality Control

| Analysis Name | Blank <u>Result</u> | Blank MDL | Report <u>Units</u> | LCS %REC | LCSD <u>%REC</u> | LCS/LCSD <u>Limits</u> | RPD | RPD Max | |
|-----------------------------|---|--------------|------------------------|--------------|---------------------|---------------------------|--------|----------|--|
| Batch number: 10327B53A | Sample number(s): 6147108-6147112 | | | | | | | | |
| Benzene Ethylbenzene | N.D. N.D. | 0.5 | ug/l | 105 | 105 | 80-120 | 0 | 30 | |
| NWTPH-Gx water C7-C12 | N.D. | 0.5 50. | ug/l ug/l | 105 91 | 105 91 | 80-120 75-135 | 0 0 | 30 30 | |
| Toluene Total Xylenes | N.D. N.D. | 0.5 1.5 | ug/1 | 105 110 . | 105 108 | 80-120 80-120 | 0 | 30 | |
| local Aylenes | N.D. | 1.5 | ug/l | 110. | 108 | 80-120 | 2 | 30 | |
| Batch number: 103330022A | Sample numb | er(s): 614 | 7109-6147 | 112 | | | | | |
| DRO C12-C24 w/Si Gel | N.D. | 30. | ug/l | 86 | 90 | 50-100 | 4 | 20 | |
| HRO C24-C40 w/Si Gel | N.D. | 70. | ug/l | | | • | | | |
| Batch number: 103266050001A | Batch number: 103266050001A Sample number(s): 6147109-6147112 | | | | | | | | |
| Lead | N.D. | 0.052 | ug/l | 103 | | 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

| Analysis Name | MS <u>%REC</u> | MSD %REC | MS/MSD <u>Limits</u> | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | | Dup RPD Max |
|---|--|------------------|--|--------------|------------|--------------|----------------------|------------|-----|----------------|
| Batch number: 10327B53A Benzene Ethylbenzene NWTPH-Gx water C7-C12 Toluene Total Xylenes | Sample 110 115 85 110 115 | number(s) | 80-152 80-133 57-157 80-133 80-148 | -614713 | .2 UNSP | K: P147099, | P147100 | | | |
| Batch number: 103266050001A Lead | Sample 102 | number(s) 101 | : 6147109 83-120 | -614711 2 | 2 UNSP | K: P144063 1 | BKG: P144063 0.19 | 22* | (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.

Analysis Name: BTEX Water Batch number: 10327B53A

Trifluorotoluene-P

Trifluorotoluene-F

^{*-} 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.



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

Page 2 of 2

Quality Control Summary

| | Name: Chevron | | Group Number: 1222290 |
|----------|------------------|------------|---------------------------|
| Reporte | ed: 12/03/10 a | at 12:55 E | M |
| | | | Surrogate Quality Control |
| 6147108 | 86 | 65 | - |
| 6147109 | 86 | 63 | |
| 6147110 | 84 | 63 | |
| 6147111 | 86 | 63 | |
| 6147112 | 86 | 64 | |
| Blank | 86 | 66 | |
| LCS | 86 | 70 | |
| LCSD | 86 | 72 | |
| MS | 86 | 66 | |
| Limits: | 58-146 | 63-135 | |
| | Name: NWTPH-Dx | | el |
| Batch nu | mber: 103330022A | | |
| | Orthoterphenyl | | |
| 6147109 | 103 | | |
| 6147110 | 100 | | |
| 6147111 | 95 | | |
| 6147112 | 88 | | |
| Blank | 107 | | |
| LCS | 115 | | |
| LCSD | 121 | | |
| 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 #: 6147108-12 SCR#: | For Lancas Sample #: 615 | ter Laboratories use of | only SCR#: |
|---|-----------------------------|-------------------------|---------------|
|---|-----------------------------|-------------------------|---------------|

| · | | | | | | | | | | | A | naly | 8 e s | Requ | ested | | | C# 1223 | 7746 |) |
|---|---|-------------|---------------------------------|---------|-------|--------|--|---------------------------------|--------|------------|---|------------------------------------|---------------------------------|--------------------------------------|------------|-------|---|--|---|--|
| Site Address: | Street, SEAT | TLE, WA | | _ | | Matrix | : | 17 1 | | | | И | M | on C | odes | - | | $N = HNO_3$ | T = Thios B = NaOl | ulfate H |
| Chevron PM: OS Consultant/Office: G-R, Inc., 6 Consultant Prj. Mgr.: Deanna L Consultant Phone #:925-551-7 Sampler: My L Service Order #: Sample Identification | 3747 Sierra Co . Harding (de 1555 | anna@grinc. | Dublin, CA | | 8 | 1 75 1 | Oil ☐ Air ☐ Total Number of Containers | BTEX + 2 8021 X 8260 □ Naphth □ | LE SCB | Oxygenates | Ж она ///// | Extended Rng. Silica Gel Cleanu | Lead Total XOIss. Method 6020 | VPH/EPH NWTPH H HCID Toughtification | | | | S = H ₂ SO ₄ J value reporti Must meet low possible for 82 8021 MTBE Confirm MTBE Confirm higher Confirm all hits Run oxy Run oxy | rest detecti 160 compo firmation E + Naphth st hit by 82 s by 8260 s on highe | on limits unds alene 60 st hit |
| | QA MW-6 MW-8 MW-10 | | 055 030 1135 1155 | XXXXXXX | | XXXX | | 2 > 3 > 3 > | | | $\times \times $ | XXXX | XXXX | | | | | Please forwar directly to the and d | d the lab re | |
| Turnare und Time Requested (STD. Tea 72 hour 24 hour 4 day | | a) . | Refinquis Refinquis | | _ | 4 | _ | | _ | 1/- | Date Date | 10/1 | ime | <u> </u> | elved by: | | / | | Date Date | Time Time |
| Data Package Options (please QC Summary Type I - Type VI (Raw Data) Disk / EI WIP (RWQCB) Disk | Full | EDF/EDI | Relinquis Relinquis UPS Tempera | hed by | Commo |) | Other | | C° | <u> </u> | Date | - | Fime | Re K | ceived by: | 1/1/V | _ | Harl Yes (No) | Date Date | Time Time |
| | | | | | | | | _= | | | | | | <u> </u> | ,u | | _ | | | |

3468 Rev. 8/6/01



Explanation of Symbols and Abbreviations

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

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

- 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
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- 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 of gas per liter of gas.

Inorganic Qualifiers

- 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.

U.S. EPA CLP Data Qualifiers:

Organic 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 |
| E | 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 |
| Ü | 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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.