

20818 44th Ave. West, Suite 190 Seattle, Washington 98036

Telephone: (425) 563-6500

Fax: (425) 563-6599

www.CRAworld.com

| | | | | TRANS | MITTA | |
|-------------|---------------------|------------|------------------------------|----------------|-------------------|--------------------------------|
| DATE: | May 19 | , 2014 | | Refer | ENCE No.: | 241809 |
| | | | | Proje | ст Nаме: | 11700 NE 160th St, Bothell, WA |
| To: | Departi | ment of E | cology - NWRO | | | _ |
| | Attn: So | onia Fern | andez | | | _ |
| | 3190 16 | 60th Ave. | . SE | | | _ |
| | Bellevu | e, WA 98 | 8008 | | | _ |
| | - | | | | | = |
| Please find | enclosed: | | Draft Originals Prints | | Final Other | |
| Sent via: | | | Mail Overnight Couri | er 🗌 | Same Day Other | Courier |
| QUAN' | TITY | | | | DESCR | RIPTION |
| 1 | | 2013 A | nnual Groundwa | ater Monitorir | ng Report | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | a | | | | |
| - | equested our Use | | | For Review a | nd Commen | t . |
| COMMENT | ΓS: | | | | | |
| | | | | | | |
| 0 V 0 M | • | Mr. Perry | Pineda, Shell O | il Products | | / |
| Copy to: | _ | US (Liveli | nk) | | | |
| Completed | by: _ | Christine | Diel [Please Print] | | Signed: | Coll |

Filing: **Correspondence File**



www.CRAworld.com









2013 Annual Groundwater Monitoring Report

Shell Branded Wholesale Facility 11700 Northeast 160th Street Bothell, Washington

Prepared for: Shell Oil Products US

Conestoga-Rovers & Associates

20818 44th Ave. West, Suite 190 Lynnwood, Washington 98036





2013 Annual Groundwater Monitoring Report

Shell-Branded Wholesale Facility 11700 Northeast 160th Street **Bothell, Washington**

SAP Code

120531

Incident No.

92995017

Agency No.

63265631

VCP No.

NW2053

Christine Diel

Christina McClelland

Prepared by: **Conestoga-Rovers** & Associates

20818 44th Avenue West, Suite 190 Lynnwood, Washington U.S.A. 98036

Office: 425-563-6500

425-563-6599

MAY 2014

REF. NO. 241809 (18)

web: http://www.CRAworld.com

Table of Contents

| | Page |
|-------------|--|
| Section 1.0 | Introduction1 |
| | 1.1 Site Information |
| Section 2.0 | Site Activities, Findings, and Discussion1 |
| | 2.1Current Activities12.2Findings2 |
| | Z.Z Tilidings |
| | List of Figures (Following Text) |
| Figure 1 | Vicinity Map |
| Figure 2 | Groundwater Elevation and Chemical Concentration Map – September 4, 2013 |
| Figure 3 | Groundwater Elevation and Chemical Concentration Map – December 5, 2013 |
| | List of Tables (Following Text) |
| Table 1 | Summary of Groundwater Monitoring Data |
| | List of Appendices |
| Appendix A | Field Forms |



Appendix B

Laboratory Analytical Reports

Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SOPUS). This annual report includes all groundwater monitoring data collected in 2013.

1.1 Site Information

Site Address 11700 Northeast 160th Street, Bothell,

Washington

Site Use Shell-Branded Wholesale Facility

Shell Project Manager Perry Pineda

CRA Project Manager Christina McClelland

Lead Agency and Contact WDOE, Libby Goldstein

Agency Case No. 63265631

Shell SAP Code: 120531

Shell Incident No. 92995017

VCP No. NW2053

The most recent agency correspondence on record is from May 31, 2011.

Section 2.0 Site Activities, Findings, and Discussion

2.1 Current Activities

Blaine Tech Services, Inc. (Blaine) gauged and sampled wells according to the established monitoring program for this site. Additionally, Blaine developed well MW-13 on August 28, 2013.

CRA prepared a vicinity map (Figure 1) and groundwater elevation and chemical concentration maps (Figures 2 and 3). CRA prepared Table 1 summarizing groundwater monitoring data and laboratory analytical results. Field forms and the laboratory analytical report are included as Appendices A and B.

1



241809 (18) May 2014

2.2 Findings

Quarter/Date 3rd/September 4, 2013

Groundwater Flow Direction Groundwater is laterally discontinuous; no

consistent flow direction

Hydraulic Gradient N/A

Depth to Water 12.26 to 49.47 feet below top of well casing

Quarter/Date 4th/December 5, 2013

Groundwater Flow Direction Groundwater is laterally discontinuous; no

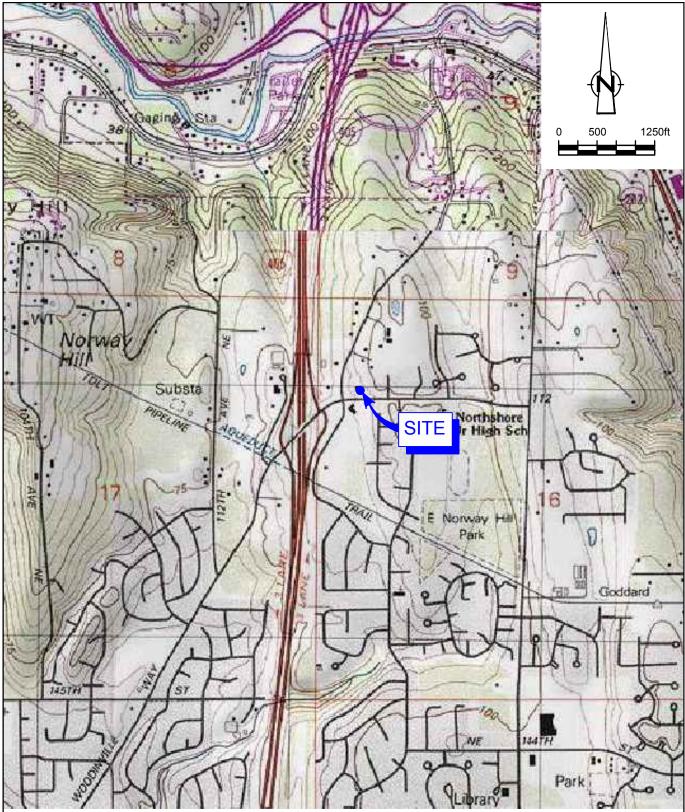
consistent flow direction

Hydraulic Gradient N/A

Depth to Water 13.06 to 50.20 feet below top of well casing

Figures



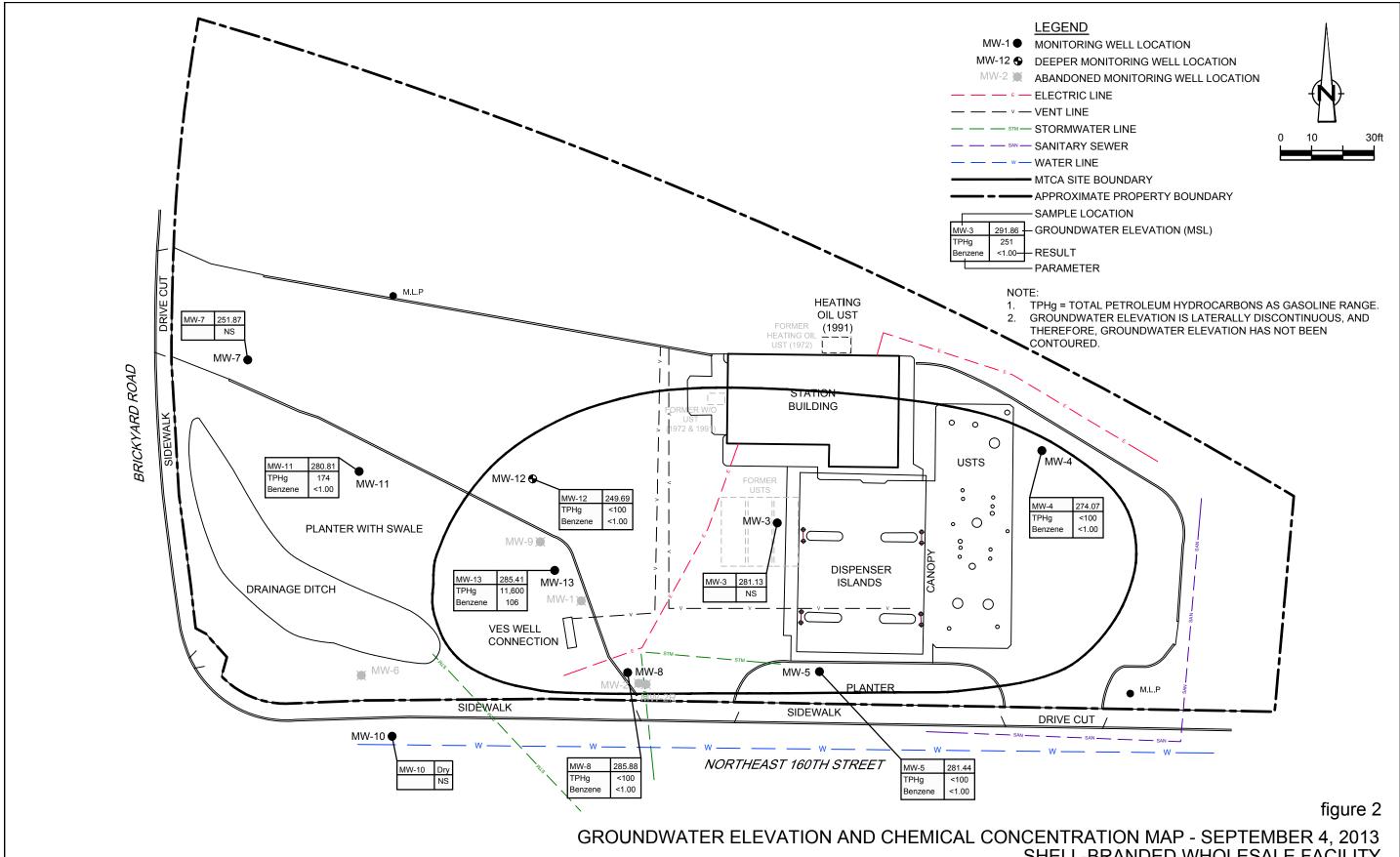


SOURCE: TOPO! MAPS.

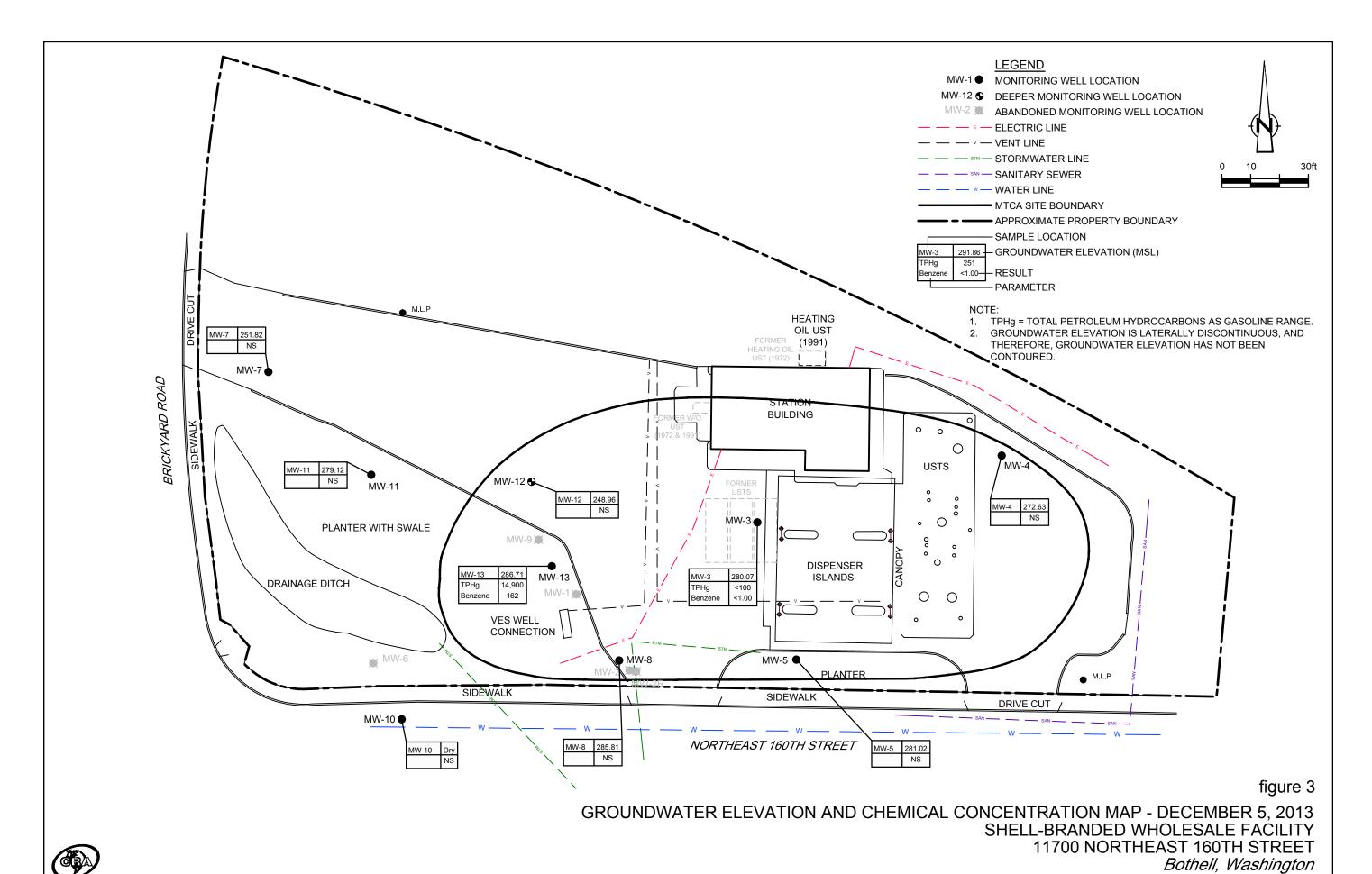
figure 1

VICINITY MAP SHELL-BRANDED WHOLESALE FACILITY 11700 NORTHEAST 160TH STREET Bothell, Washington





GROUNDWATER ELEVATION AND CHEMICAL CONCENTRATION MAP - SEPTEMBER 4, 2013 SHELL-BRANDED WHOLESALE FACILITY 11700 NORTHEAST 160TH STREET Bothell, Washington



Tables



| | | | | | | HYDI | ROCARBO | ons . | | | PRIMA | RY VOCs | | | | O | XYGENAT | ES | | | LEAD | PAHs | |
|-------------------|----------------------|------------------|----------------|-------|------------------|------------------|--------------------|--------------|--------------|---------------------|-------------------|-----------------|--------------|------------|-------------|---------|---------|-------|-------|-------|-----------|-------------|-------|
| Sample ID | Date | тос | DTW | SPH | GWE | TPHg | TPHd | ТРНо | В | т | Е | Х | EDB | EDC | MTBE | TBA | DIPE | ETBE | TAME | Total | Dissolved | Naphthalene | cPAHs |
| • | Model Toxics Cor | ntrol Act Method | A Cleanup Le | evels | | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | 02/07/94 | 94.91 | 13.45 | | 81.46 | 17,000 | | | 850 | 1,600 | 460 | 3,800 | | | | | | | | 5.3 | | | |
| MW-1 ^c | 02/07/94 | 94.91 | 13.45 | | 81.46 | 18,000 | | | 860 | 1,700 | 470 | 3,900 | | | | | | | | | | | |
| MW-1 MW-1 | 06/22/94 | 94.91 | 21.78 | | 73.13 77.27 | 55,000 76,700 | | | 1,200 | 7,100 | 2,800 | 13,000 | | | | | | | | | 5.6 3 | | |
| MW-1 | 09/19/94 01/05/94 | 94.91 94.91 | 17.64 14.11 | | 80.80 | 76,700 27,000 | | | 1,137 240 | 7,650 980 | 2,740 1,400 | 12,200 6,000 | | | | | | | | | ND | | |
| MW-1 ^c | 01/05/94 | 94.91 | 14.11 | | 80.80 | 44,000 | | | 210 | 1,500 | 1,900 | 7,500 | | | | | | | | | | | |
| MW-1 | 03/23/95 | 94.91 | 11.9 | | 83.01 | 26,000 | | | 190 | 1,200 | 1,600 | 5,500 | | | | | | | | | ND | | |
| MW-1 | 06/06/95 | 94.91 | 16.93 | | 77.98 | 40,000 | | | 730 | 3,800 | 2,700 | 11,000 | | | | | | | | | ND | | |
| MW-1 | 09/12/95 | 94.91 | 17.76 | | 77.15 | 86,000 | | | 1,000 | 6,500 | 3,100 | 13,000 | | | | | | | | | 7 | | |
| MW-1 | 12/05/95 | 94.91 | 10.48 | | 84.43 | 46,000 | | | 200 | 1,400 | 1,800 | 7,400 | | | | | | | | | 3 | | |
| MW-1 | 03/21/96 | 94.91 | 13.49 | | 81.42 | 64,000 | | | 340 | 2,800 | 2,600 | 9,800 | | | | | | | | | | | |
| MW-1 ^c | 03/21/96 | 94.91 | 13.49 | | 81.42 | 64,000 | | | 300 | 2,600 | 2,500 | 9,300 | | | | | | | | | | | |
| MW-1 | 06/17/96 | | | | | | | | | ٧ | Vell inadve | rtently burie | ed during si | te constru | ction not m | easured | | | | | | | |
| MW-1 | 09/23/96 | | | | | | | | | ٧ | Vell inadve | rtently burie | ed during si | te constru | ction not m | easured | | | | | | | |
| MW-1 | 12/16/96 | | | | | | | | | V | Vell inadve | rtently burie | ed during si | te constru | ction not m | easured | | | | | | | |
| MW-1 | 06/27/97 | 91.10 | 15.15 | | 75.95 | 59,100 | | | 126 | 1,400 | 2,670 | 6,940 | | | | | | | | | | | |
| MW-1 ^c | 06/27/97 | 91.10 | 15.15 | | 75.95 | 58,700 | | | 124 | 1,460 | 2,880 | 8,880 | | | | | | | | | | | |
| MW-1 | 09/16/97 | 91.10 | 18.45 | | 72.65 | | | | | | | | | | | | | | | | | | |
| MW-1 | 01/06/98 | 91.10 | 18.26 | | 72.84 | | | | | | | | | | | | | | | | | | |
| MW-1 | 03/23/98 | 91.10 | 14.95 | | 76.15 | 47,300 | | | 160 | 1,000 | 1,660 | 6,260 | | | | | | | | | | | |
| MW-1 | 06/20/98 | 91.10 | 16.52 | | 74.58 | 43,000 | | | 110 | 474 | 2,120 | 7,310 | | | | | | | | | | | |
| MW-1 | 09/21/98 | 91.10 | 22.49 | | 68.61 | 37,200 | | | 678 | 923 | 2,150 | 7,120 | | | | | | | | | | | |
| MW-1 | 12/16/98 | 91.10 | 15.08 | | 76.02 | 37,300 | | | 221 | 790 | 1,950 | 6,270 | | | | | | | | | | | |
| MW-1 MW-1 | 04/08/99 10/07/99 | 91.10 91.10 | 16.07 22.27 | | 75.03 68.83 | 33,200 42,200 | | | 86.9 586 | 478 1,690 | 1,650 2,210 | 5,600 6,880 | | | <500 e | | | | | | | | |
| MW-1 | 03/21/00 | 91.10 | 16.74 | | 74.36 | 30,000 | | | 104 | 310 | 1,850 | 5,490 | | | | | | | | | | | |
| MW-1 | 09/30/00 | 91.10 | 22.88 | | 68.22 | 22,700 | | | 590 | 227 | 1,760 | 3,500 | | | | | | | | | | | |
| MW-1 | 02/03/01 | 91.10 | 18.57 | | 72.53 | 17,100 | | | 88.6 | 143 | 1,730 | 3,940 | | | <40.0 e | | | | | | | | |
| MW-1 | 07/10/01 | 91.10 | 18.92 | | 72.18 | 30,000 | | | 209 | 309 | 2,050 | 4,710 | | | <5.00 | | | | | | | | |
| MW-1 | 02/25/02 | 91.10 | 14.35 | | 76.75 | 17,900 | | | 78.0 | 84.1 | 1,240 | 3,150 | | | | | | | | | | | |
| MW-1 | 07/11/02 | 91.10 | 17.30 | | 73.80 | 32,000 | | | 92 | 130 | 1,700 | 2,800 | | | | | | | | | | | |
| MW-1 | 01/02/03 | 91.10 | 21.07 | | 70.03 | 46,000 | | | 240 | 180 | 2,500 | 5,460 | | | | | | | | | | | |
| MW-1 | 07/14/03 | 91.10 | 20.41 | | 70.69 | 38,000 | | | 320 | 350 | 2,200 | 5,550 | | | | | | | | | | | |
| MW-1 | 01/23/04 | 91.10 | 16.45 | | 74.65 | 19,000 | | | 77 | <1 | 880 | 1,855 | | | | | | | | | | | |
| MW-1 | 07/23/04 | 91.10 | 20.84 | | 70.26 | 24,000 | | | 180 | 250 | 2,100 | 5,030 | | | | | | | | | | | |
| MW-1 | 01/10/05 | 91.10 | 18.02 | | 73.08 | 12,000 | | | 76 | 54 | 880 | 1,638 | | | | | | | | | | | |
| MW-1 | 07/15/05 | 91.10 | 17.20 | | 73.90 | 18,000 | | | 99 | 66 | 1,300 | 2,358 | | | | | | | | | | | |
| MW-1 | 01/11/06 | 91.10 | 12.81 | | 78.29 | 11,800 | | | 74 | 17.7 | 406 | 742 | | | | | | | | | | | |
| MW-1 | 02/15/07 | 91.10 | 16.00 | | 75.10 | 1,050 | | | 5.44 | 4.09 | 28.2 | 83.4 | | | <5.00 | <50.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-1 | 09/11/07 | 91.10 | 17.44 | | 73.66 | 10,900 a,b | | | 122 | 144 | 1,160 | 2,900 | | | | | | | | | | | |
| MW-1 | 02/20/08 | 91.10 | 15.81 | | 75.29 | 15,500 | | | 59.4 | 685 | 38.4 | 1,360 | | | <5.00 | <50.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-1 | 08/12/08 | 91.10 | 18.79 | | 72.31 | 14,000 | | | 170 | 170 | 2,100 | 6,350 | | | | | | | | | | | |
| MW-1 | 02/04/09 | 91.10 | 15.11 | | 75.99 | 10,000 | | | 58 100 | 42 | 630 | 1,400 | | | <25 e | <250 | <50 | <50 | <50 | 1.71 | | | |
| MW-1 * MW-1 g | 08/13/09 02/05/10 | 299.53 299.53 | 18.80 | | 280.73 285.39 | 15,000 11,000 | 5,300 d 5,100 d | <100 <100 | 190 60 | 100 28 | 900 460 | 2,500 | <0.010 | <1.6 | <10 | <200 | <10 | <10 | <10 | 1.71 | | 360 200 | <0.1 |
| MW-1 g | 02/05/10 | 299.53 | 14.14 15.68 | | 285.39 | 11,000 10,000 | 5,100 d 6,200 d | <100 <100 | 60 45 | 28 | 460 200 | 830 430 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | 200 210 | |
| MW-1 | 03/23/11 | 299.53 | 11.58 | | 287.95 | 10,000 | 1,780 | 201 | 45 41.0 | 11.5 | 206 | 333 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | 47.9 | |
| MW-1 | 09/12/11 | 299.53 | 15.42 | | 284.11 | 10,100 | 2,290 | <248 | 138 | 33.4 | 255 | 686 | | | | | | | | | | 58.5 | |
| MW-1 | 03/07/12 | 299.53 | 11.28 | | 288.25 | 6,850 | 2,830 h | 105 | 55.6 | 12.2 | 162 | 235 | | | <1.00 | <10.0 | <1.00 | <1.00 | <1.00 | | | 38.4 | |
| MW-1 | 09/12/12 | 299.53 | 13.69 | | 285.84 | 14,700 | 2,920 | <95.2 | 97.6 | 24.1 | 588 | 947 | | | | | | | | | | 156 | |
| | | | | | | | • · · | | | | | | | | | | | | | | | | |

| | | | | | | HYD | ROCARBO | ONS | | | PRIMAI | RY VOCs | | | | 0 | XYGENAT | ES | | | LEAD | PAHs | ; |
|-------------------|----------------------|------------------|----------------|-------|----------------|--------------|---------|-------|--------------------|-----------------|----------------|---------------|-----------|----------|--------------|------------|---------|------|------|-------|-----------|-------------|-------|
| Sample ID | Date | тос | DTW | SPH | GWE | TPHq | TPHd | ТРНо | В | т | Е | Х | EDB | EDC | MTBE | TBA | DIPE | ETBE | TAME | Total | Dissolved | Naphthalene | cPAHs |
| | Model Toxics Co | ntrol Act Method | A Cleanup L | evels | | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | 12/14/12 | 299.53 | 10.03 | | 289.50 | 5,100 | 1,100 | <96.2 | 53.3 | 6.74 | 88.9 | 98.6 | | | | | | | | | | | |
| MW-2 | 02/07/94 | 94.63 | 17.87 | | 76.76 | 4,200 | | | 230 | 16 | 400 | 870 | | | | | | | | ND | | | |
| MW-2 | 06/22/94 | 94.63 | 14.71 | | 79.92 | 4,300 | | | 180 | 15 | 370 | 670 | | | | | | | | | ND | | |
| MW-2 | 09/19/94 | 94.63 | 16.12 | | 78.51 | 1,650 | | | 79 | 4.1 | 128 | 201 | | | | | | | | | ND | | |
| MW-2 | 01/05/95 | 94.63 | 13.58 | | 81.05 | 1,900 | | | 85 | 6.4 | 220 | 320 | | | | | | | | | ND | | |
| MW-2 | 03/23/95 | 94.63 | 11.60 | | 83.03 | 1,500 | | | 74 | 5.9 | 160 | 280 | | | | | | | | | ND | | |
| MW-2 | 06/06/95 | 94.63 | 15.65 | | 78.98 | 2,800 | | | 154 | 15 | 330 | 520 | | | | | | | | | ND | | |
| MW-2 | 09/12/95 | 94.63 | 17.33 | | 77.30 | 2,300 | | | 70 | 11 | 180 | 280 | | | | | | | | | ND | | |
| MW-2 | 12/05/95 | 94.63 | 11.10 | | 83.53 | 1,300 | | | 41 | 3.5 | 130 | 150 | | | | | | | | | ND | | |
| MW-2 | 03/21/96 | 94.63 | | | | | | | | | | | | | | | | | | | | | |
| MW-2 | 06/17/96 | 94.63 | | | | | | | | | V | Well Destroy | ed During | Widening | of Northeast | 160th Stre | et | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-3 | 02/07/94 | 99.57 | 21.68 | | 77.89 | 2,500 | | | 220 | 12 | 220 | 280.0 | | | | | | | | ND | | | |
| MW-3 | 06/22/94 | 99.57 | 22.16 | | 77.41 | 5,300 | | | 270 | 26 | 400 | 270.0 | | | | | | | | | ND | | |
| MW-3 ^c | 06/22/94 | 99.57 | 22.16 | | 77.41 | 4,900 | | | 260 | 23 | 400 | 250.0 | | | | | | | | | | | |
| MW-3 | 09/19/94 | 99.57 | 23.46 | | 76.11 | 1,340 | | | 158 | 5.2 | 118 | 32.0 | | | | | | | | | 5 | | |
| MW-3 ^c | 09/19/94 | 99.57 | 23.46 | | 76.11 | 1,300 | | | 150 | 7.4 | 116 | 35.0 | | | | | | | | | | | |
| MW-3 | 01/05/95 | 99.57 | 22.72 | | 76.85 | 2,500 | | | 160 | 15 | 180 | 120.0 | | | | | | | | | ND | | |
| MW-3 ^c | 01/05/95 | 99.57 | 22.72 | | 76.85 | 2,000 | | | 130 | 8 | 150 | 77.0 | | | | | | | | | | | |
| MW-3 | 03/23/95 | 99.57 | 21.82 | | 77.75 | 2,100 | | | 120 | 13 | 150 | 84.0 | | | | | | | | | ND | | |
| MW-3 ^c | 03/23/95 | 99.57 | 21.82 | | 77.75 | 2,200 | | | 120 | 12 | 160 | 110.0 | | | | | | | | | | | |
| MW-3 | 06/06/95 | 99.57 | 22.20 | | 77.37 | 2,900 | | | 120 | 34 | 190 | 210.0 | | | | | | | | | ND | | |
| MW-3 ^c | 06/06/95 | 99.57 | 22.20 | | 77.37 | 3,100 | | | 130 | 41 | 220 | 260.0 | | | | | | | | | ND | | |
| MW-3 | 09/12/95 | 99.57 | 23.06 | | 76.51 | 1,300 | | | 62 | 8.1 | 98 | 86.0 | | | | | | | | | 56 | | |
| MW-3 ^c | 09/12/95 | 99.57 | 23.06 | | 76.51 | 1,300 | | | 61 | 8.8 | 94 | 96.0 | | | | | | | | | | | |
| MW-3 | 12/05/95 | 99.57 | 22.24 | | 77.33 | 1,800 | | | 65 | 7.7 | 95 | 90.0 | | | | | | | | | | | |
| MW-3 | 03/21/96 | 99.57 | 21.22 | | 78.35 | | | | | | | | | | | | | | | | | | |
| MW-3 | 06/17/96 | 99.57 | 21.25 | | 78.32 | 3,920 | | | 121 | 7.19 | 238 | 87.4 | | | | | | | | | | | |
| MW-3 ^c | 06/17/96 | 99.57 | 21.25 | | 78.32 | 4,290 | | | 87.5 | 6.58 | 211 | 115.0 | | | | | | | | | | | |
| MW-3 | 09/23/96 | 99.57 | 22.83 | | 76.74 | | | | | | | | | | | | | | | | | | |
| MW-3 | 12/16/96 | 99.57 | 22.66 | | 76.91 | 878 | | | 29.8 | 1.1 | 49.5 | 7.6 | | | | | | | | | | | |
| MW-3 ^c | 12/16/96 | 99.57 | 22.66 | | 76.91 | 580 | | | 29.4 | 1.6 | 41.9 | 7.3 | | | | | | | | | | | |
| MW-3 | 06/27/97 | 99.57 | 21.01 | | 78.56 | 3,580 | | | 42.5 | 3.64 | 135 | 51.4 | | | | | | | | | | | |
| MW-3 | 09/16/97 | 99.57 | 21.80 | | 77.77 | 4,010 | | | 63.3 | 4.06 | 171 | 74.6 | | | | | | | | | | | |
| MW-3 | 01/06/98 | 99.57 | 21.65 | | 77.92 | 1,160 | | | 30.3 | 1.6 | 58.8 | 16.4 | | | | | | | | | | | |
| MW-3 | 03/23/98 | 99.57 | 26.65 | | 72.92 | 4.000 | | | | | | 40.4 | | | | | | | | | | | |
| MW-3 | 06/20/98 | 99.57 | 21.65 | | 77.92 | 1,380 | | | 37.7 | 2.86 | 67.6 | 18.4 | | | | | | | | | | | |
| MW-3 | 09/21/98 | 99.57 | 23.05 | | 76.52 | | | | | | | | | | | | | | | | | | |
| MW-3 | 12/16/98 | 99.57 | 23.65 | | 75.92 | ND 050 | | | 8.96 | 0.907 | ND 40.0 | ND | | | | | | | | | | | |
| MW-3 | 04/08/99 | 99.57 | 22.66 | | 76.91 | 959 | | | 12.7 | <1.40 | 19.0 | 15.1 | | | <8.20 | | | | | | | | |
| MW-3 MW-3 | 10/07/99 | 99.57 | 24.27 | | 75.30 | <50.0 | | | 2.87 | <0.5 | <0.5 | <1.0 | | | | | | | | | | | |
| MW-3 | 03/21/00 09/30/00 | 99.57 | 23.41 | | 76.16 | 262 8.260 | | | 3.42 189 | <0.5 69.3 | 1.8 32.7 | 1.6 | | | | | | | | | | | |
| MW-3 | | 99.57 | 23.66 | | 75.91 75.46 | 8,360 | | | | | 32.7 7.10 | 1,200 | | | | | | | | | | | |
| | 02/03/01 | 99.57 | 24.11 | | 75.46 76.24 | 430 | | | 62.0 12.1 | 5.26 | | 15.7 | | | | | | | | | | | |
| MW-3 MW-3 | 07/10/01 02/25/02 | 99.57 99.57 | 23.33 23.13 | | 76.24 76.44 | <80 688 | | | 13.8 | <0.500 0.795 | <0.500 7.39 | <1.00 6.63 | | | | | | | | | | | |
| MW-3 | 02/25/02 | 99.57 | 22.56 | | 77.01 | 300 | | | 2.2 | 0.795 <1 | 3.8 | 1.7 | | | | | | | | | | | |
| MW-3 | 01/02/03 | 99.57 | 24.67 | | 74.90 | <250 | | | 41 | <1 <1 | 3.0 <1 | 1.7 <1 | | | | | | | | | | | |
| MW-3 | 07/14/03 | 99.57 | 23.73 | | 74.90 75.84 | <250 | | | 6.9 | <1 | <1 | 1.7 | | | | | | | | | | | |
| 14144-0 | 01/17/00 | 55.51 | 20.10 | | , 5.04 | ~200 | | - | 3.3 | ~1 | ~ 1 | | | | | | | | | | - | | |

| | | | | | | HYD | ROCARBO | NS. | | | PRIMAR | RY VOCs | | | | 0 | XYGENAT | FS | | | LEAD | PAHs | |
|-----------|------------------|--------|-------|------|----------------|----------|---------|------|---------|----------|---------|---------|--------|-------|--------|-------|---------|--------|-------|-------|-----------|-------------|-------|
| Sample ID | Date | тос | DTW | SPH | GWE | TPHg | TPHd | TPHo | В | т | E | X | EDB | EDC | MTBE | TBA | DIPE | ETBE | TAME | Total | Dissolved | Naphthalene | cPAHs |
| Cap.c 12 | Model Toxics Cor | | | | 0 | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | | | | | | · · | | ŭ | ŭ | | | | | | · · | | | | ŭ | ŭ | Ü | • | · |
| MW-3 | 01/23/04 | 99.57 | 23.82 | | 75.75 | <250 | | | 170 | <1 | <1 | 1.5 | | | | | | | | | | | |
| MW-3 | 07/23/04 | 99.57 | 23.98 | | 75.59 | <250 | | | <1 | <1 | <1 | <1 | | | | | | | | | | | |
| MW-3 | 01/10/05 | 99.57 | 24.25 | | 75.32 | <250 | | | <1 | <1 | <1 | <1 | | | | | | | | | | | |
| MW-3 | 07/15/05 | 99.57 | 22.99 | | 76.58 | <50 | | | <1 | <1 | <1 | <1 | | | | | | | | | | | |
| MW-3 | 01/11/06 | 99.57 | 23.47 | | 76.10 | <50 | | | < 0.500 | < 0.500 | < 0.500 | <0.1 | | | | | | | | | | | |
| MW-3 | 02/15/07 | 99.57 | 23.05 | | 76.52 | 1,230 | | | 1.96 | < 0.500 | < 0.500 | <3.00 | | | <5.00 | <50.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-3 | 09/11/07 | 99.57 | 24.63 | | 74.94 | <50.0 | | | <0.500 | < 0.500 | <0.500 | <3.00 | | | | | | | | | | | |
| MW-3 | 02/20/08 | 99.57 | 22.73 | | 76.84 | 722 | | | 1.23 | < 0.500 | <0.500 | <3.00 | | | <5.00 | <50.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-3 | 08/12/08 | 99.57 | 23.10 | | 76.47 | <100 | | | <0.5 | <1 | <1 | <1 | | | | | | | | | | | |
| MW-3 | 02/04/09 | 99.57 | 23.11 | | 76.46 | 640 | | | 0.85 | <1.400 | <1.0 | <1.0 | | | <1.0 | 14.0 | <2.0 | <2.0 | <2.0 | | | | |
| MW-3 * | 08/13/09 | 303.37 | 23.33 | | 280.04 | <100 | 170 d | <100 | < 0.50 | <0.50 | < 0.50 | <0.50 | <0.010 | <0.50 | < 0.50 | 4.0 | < 0.50 | < 0.50 | <0.50 | 2.93 | | 0.14 | <0.1 |
| MW-3 | 02/05/10 | 303.37 | 21.52 | | 281.85 | 430 | 180 d | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | | |
| MW-3 | 08/04/10 | 303.37 | 20.10 | | 283.27 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | | | | | | | | | |
| MW-3 | 03/23/11 | 303.37 | 15.55 | | 287.82 | <100 | <97.1 | 160 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-3 | 09/12/11 | 303.37 | 11.34 | | 292.03 | <100 | <98.0 | <245 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-3 | 03/07/12 | 303.37 | 11.45 | 0.04 | 291.95 | | | | | | | | | | | | | | | | | | |
| MW-3 | 03/23/12 | 303.37 | 11.22 | | 292.15 | | | | | | | | | | | | | | | | | | |
| MW-3 | 04/03/12 | 303.37 | 11.15 | | 292.22 | 423 | <97.1 | 288 | <1.00 | <1.00 | <1.00 | 7.56 | | | <1.00 | 17.5 | <1.00 | <1.00 | <1.00 | | | | |
| MW-3 | 09/12/12 | 303.37 | 11.50 | | 291.87 | 294 | 32,600 | 520 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-3 | 11/05/12 | 303.37 | 11.51 | | 291.86 | 251 | 1,860 | 97.2 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | 0.384 | |
| MW-3 | 09/04/13 | 303.37 | 22.24 | 0.02 | 281.13 | | | | | | | | | | | | | | | | | | |
| MW-3 | 12/05/13 | 303.37 | 23.30 | | 280.07 | <100 | 3,280 | 295 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-4 | 02/07/94 | 102.75 | 31.42 | | 74 22 | ND | | | ND | ND | ND | ND | | | | | | | | ND | | | |
| MW-4 | 06/22/94 | 102.75 | 31.42 | | 71.33 70.95 | ND ND | | | ND | ND ND | ND | ND | | | | | | | | | ND | | |
| MW-4 | 09/19/94 | 102.75 | 32.95 | | 69.80 | ND | | | ND | ND | ND | ND | | | | | | | | | ND | | |
| MW-4 | 09/19/94 | 102.75 | 32.84 | | 69.91 | ND | | | ND | ND | ND | ND | | | | | | | | | ND | | |
| MW-4 | 03/23/95 | 102.75 | 31.60 | | 71.15 | ND | | | ND | ND | ND | ND | | | | | | | | | ND | | |
| MW-4 | 06/06/95 | 102.75 | 31.90 | | 70.85 | ND | | | ND | ND | ND | 0.89 | | | | | | | | | ND | | |
| MW-4 | 09/12/95 | 102.75 | 32.72 | | 70.03 | ND | | | ND | ND | ND | ND | | | | | | | | | ND | | |
| MW-4 | 12/05/95 | 102.75 | 32.85 | | 69.90 | ND | | | ND | ND | ND | ND | | | | | | | | | ND | | |
| MW-4 | 03/21/96 | 102.75 | 31.20 | | 71.55 | | | | | | | | | | | | | | | | | | |
| MW-4 | 06/17/96 | 102.75 | 31.30 | | 71.45 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 09/23/96 | 102.75 | 32.62 | | 70.13 | | | | | | | | | | | | | | | | | | |
| MW-4 | 12/16/96 | 102.75 | 32.95 | | 69.80 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 06/27/97 | 102.75 | 35.35 | | 67.40 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 09/16/97 | 102.75 | 31.74 | | 71.01 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 01/06/98 | 102.75 | 31.25 | | 71.50 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 03/23/98 | 102.75 | 30.61 | | 72.14 | | | | | | | | | | | | | | | | | | |
| MW-4 | 06/20/98 | 102.75 | 31.92 | | 70.83 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 09/21/98 | 102.75 | 32.88 | | 69.87 | | | | | | | | | | | | | | | | | | |
| MW-4 | 12/16/98 | 102.75 | 33.50 | | 69.25 | ND | | | ND | ND | ND | ND | | | | | | | | | | | |
| MW-4 | 04/08/99 | 102.75 | 32.82 | | 69.93 | | | | | | | | | | | | | | | | | | |
| MW-4 | 10/07/99 | 102.75 | 33.97 | | 68.78 | | | | | | | | | | | | | | | | | | |
| MW-4 | 03/21/00 | 102.75 | 33.07 | | 69.68 | | | | | | | | | | | | | | | | | | |
| MW-4 | 09/30/00 | 102.75 | 33.39 | | 69.36 | | | | | | | | | | | | | | | | | | |
| MW-4 | 02/03/01 | 102.75 | 33.60 | | 69.15 | | | | | | | | | | | | | | | | | | |
| MW-4 | 07/10/01 | 102.75 | 32.83 | | 69.92 | | | | | | | | | | | | | | | | | | |
| MW-4 | 02/25/02 | 102.75 | 32.41 | | 70.34 | | | | | | | | | | | | | | | | | | |
| MW-4 | 07/11/02 | 102.75 | 32.45 | | 70.30 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Page 4 of 7

| Part | | | | | | | HYD | ROCARBO | ONS | | | PRIMAR | Y VOCs | | | | 0) | KYGENAT | ES | | | LEAD | PAHs | |
|---|-----------|----------|------------------|--------------|-------|--------|----------|---------|-------|---------|---------|---------|--------|------|------|-------|-------|---------|-------|-------|-------|------|------|------|
| Part | Sample ID | Date | тос | DTW | SPH | GWE | | | | В | Т | | | EDB | EDC | MTBE | | | | TAME | Total | | | |
| Mort O17003 10775 34.31 | | | ntrol Act Method | A Cleanup Le | evels | | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| MAY-4 0725M 16276 33.27 68.38 - 6 0.7 - 7 | | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| MAY-4 0725M 16276 33.27 68.38 - 6 0.7 - 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mary | | | | | | | | | | | | | | | | | | | | | | | | |
| Mile | | | | | | | | | | | | | | | | | | | | | | | | |
| MAY-4 071065 10275 32.96 68.81 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-4 O/1680 10276 20276 10276 20276 | | | | | | | | | | | | | | | | | | | | | | | | |
| MM-4 | | | | | | | | | | | | | | | | | | | | | | | | |
| MAY-4 | | | | | | | | | | | | | | | | | | | | | | | | |
| MM-4 081197 102.75 34.77 67.88 58.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| MM-4 | | | | | | | | | | < 0.500 | <0.500 | | <3.00 | | | | | | | | | | | |
| MW-4 0817208 102.75 32.01 68.72 4100 0 | | | | | | | | | | | | | | | | <5.00 | | | | | | | | |
| MW-4 026,049 02.75 03.13 0.882 0.10 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-4 081309 30.58 32.58 2.78 2.72 2.72 2.70 0.0 100 100 100 1.0 | | | | | | | | | | | | | | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | | |
| MM-4 020/510 306.58 32.67 273.82 4100 4100 40.50 41.00 41.00 4.00 41.00 4.00 | | | | | | | | <100 | <100 | | | | | | | | | | | | 4.91 | | | |
| MW-4 0022111 306.58 31.60 274.68 41.00 4 | MW-4 | 02/05/10 | | 32.76 | | 273.82 | <100 | <100 | | < 0.50 | <1.0 | <1.0 | <1.0 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | | |
| MW-4 90/1211 306.58 32.1 32.2 37.48 4100 49.8 49.8 41.00 | MW-4 | 08/04/10 | 306.58 | 32.67 | | 273.91 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | | | | | | | | | |
| MW-4 007/12 306.58 31.86 774.72 100 63.0 43.0 43.0 41.0 41.00 | MW-4 | 03/23/11 | 306.58 | 31.60 | | 274.98 | <100 | <98.0 | <98.0 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-4 0812912 305.58 31.86 274.72 100 495.2 455.2 1.00 1.00 1.00 2.00 | MW-4 | 09/12/11 | 306.58 | 32.12 | | 274.46 | <100 | <96.2 | <240 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-4 1205/13 306.58 32.51 - 274.07 < 100 < 63.5 273 < 1.00 < 1.00 < 2.00 < | MW-4 | 03/07/12 | 306.58 | 31.95 | | 274.63 | <100 | <94.3 | <94.3 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <10.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-4 1205/13 306.58 33.96 . 272.63 | MW-4 | 09/12/12 | 306.58 | 31.86 | | 274.72 | <100 | <95.2 | <95.2 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MMV-5 03/2196 94.76 20.99 74.97 ND ND ND ND ND ND | MW-4 | 09/04/13 | 306.58 | 32.51 | | 274.07 | <100 | <93.5 | 213 | <1.00 | <1.00 | <1.00 | <2.00 | | | | | | | | | | | |
| MW/5 08/2398 94.76 22.87 | MW-4 | 12/05/13 | 306.58 | 33.95 | | 272.63 | | | | | | | | | | | | | | | | | | |
| MW/5 08/2398 94.76 22.87 | | | | | | | | | | | | | | | | | | | | | | | | |
| MMV-5 092396 94.76 22.87 71.89 ND ND ND ND ND ND N | MW-5 | 03/21/96 | 94.76 | 20.79 | | | | | | | ND | | ND | | | | | | | | | | | |
| MV-5° 092296 94.76 22.87 71.88 ND | MW-5 | 06/17/96 | 94.76 | 20.69 | | 74.07 | ND | | | | 0.647 | | ND | | | | | | | | | | | |
| MW-5 12/16/96 94.76 21.90 72.86 ND ND ND ND ND ND ND N | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 06/27/97 94.76 21.84 72.92 ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 09/1697 94.76 21.84 72.92 ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5° 09/16/97 94.76 21.84 72.92 ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 01/06/98 94.76 21.65 - 73.11 ND - ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 03/23/98 94.76 21.53 73.23 ND ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 06/20/98 94.76 21.53 - 73.23 ND - ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 09/21/98 94.76 23.46 71.30 ND ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 12/16/98 94.76 22.96 71.80 ND ND ND ND ND ND | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 04/08/99 94.76 21.63 - 73.13 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 03/21/00 94.76 22.69 72.07 | | | | | | | | | | | | | ND | | | | | | | | | | | |
| MW-5 09/30/00 94.76 22.69 72.07 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 09/30/00 94.76 24.12 70.64 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 02/03/01 94.76 23.58 71.18 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 07/10/01 94.76 22.56 72.20 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 02/25/02 94.76 21.54 73.22 <50 <- <- <- <- > <- <- <- <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- <-> <- | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 07/11/02 94.76 22.14 72.62 | | | | | | | <50 | | | < 0.500 | < 0.500 | < 0.500 | <1.00 | | | | | | | | | | | |
| MW-5 01/02/03 94.76 24.68 70.08 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 07/14/03 94.76 23.15 71.61 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 01/23/04 94.76 21.73 73.03 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 07/23/04 94.76 21.87 72.89 | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 07/15/05 94.76 22.04 72.72 | | | | | | | | | | | | | | | | | | | | | | | | |
| | MW-5 | 01/10/05 | 94.76 | 22.95 | | 71.81 | | | | | | | | | | | | | | | | | | |
| NN F 04/4/00 04.70 40.00 74.00 | MW-5 | 07/15/05 | 94.76 | 22.04 | | 72.72 | | | | | | | | | | | | | | | | | | |
| MW-0 U1/11/U0 94./0 19.8U /4.96 | MW-5 | 01/11/06 | 94.76 | 19.80 | | 74.96 | | | | | | | | | | | | | | | | | | |

| | | | | | | HYE | ROCARBO | NS | | | PRIMAR | Y VOCs | | | | O | XYGENAT | ES | | | LEAD | PAHs | |
|-----------|----------|----------------------|-------|-----|--------|----------|----------|-------|---------|---------|----------|-------------|------------|-------------|--------------|--------|---------|--------|--------|-------|-----------|-------------|-------|
| Sample ID | Date | тос | DTW | SPH | GWE | TPHg | TPHd | ТРНо | В | т | Ε | Х | EDB | EDC | MTBE | TBA | DIPE | ETBE | TAME | Total | Dissolved | Naphthalene | cPAHs |
| | | Control Act Method A | | | | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | | | | | | | | | | - 3 | | - 3 | | | | | | | | | | | |
| MW-5 | 02/15/07 | 94.76 | 21.54 | | 73.22 | | | | | | | | | | | | | | | | | | |
| MW-5 | 09/11/07 | 94.76 | 23.03 | | 71.73 | <50.0 | | | < 0.500 | < 0.500 | <0.500 | <3.00 | | | | | | | | | | | |
| MW-5 | 02/20/08 | 94.76 | 20.70 | | 74.06 | <50.0 | | | < 0.500 | <0.500 | <0.500 | <3.00 | | | <5.00 | | | | | | | | |
| MW-5 | 08/12/08 | 94.76 | 22.18 | | 72.58 | <100 | | | <0.5 | <1 | <1 | <1 | | | | | | | | | | | |
| MW-5 | 02/04/09 | 94.76 | 20.68 | | 74.08 | <100 | | | < 0.50 | <1.0 | <1.0 | <1.0 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | | |
| MW-5 * | 08/13/09 | 303.22 | 21.89 | | 281.33 | <100 | <100 | <100 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.010 | < 0.50 | < 0.50 | <10 | < 0.50 | < 0.50 | < 0.50 | 3.93 | | <0.1 | <0.1 |
| MW-5 | 02/05/10 | 303.22 | 20.36 | | 282.86 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | | |
| MW-5 | 08/04/10 | 303.22 | 21.15 | | 282.07 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | | | | | | | | | |
| MW-5 | 03/23/11 | 303.22 | 17.52 | | 285.70 | <100 | <94.3 | 117 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-5 | 09/12/11 | 303.22 | 18.73 | | 284.49 | <100 | <98.0 | <245 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-5 | 03/07/12 | 303.22 | 17.73 | | 285.49 | <100 | <94.3 | <94.3 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <10.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-5 | 09/12/12 | 303.22 | 18.03 | | 285.19 | <100 | <95.2 | <95.2 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-5 | 09/04/13 | 303.22 | 21.78 | | 281.44 | <100 | <93.5 | <93.5 | <1.00 | <1.00 | <1.00 | <2.00 | | | | | | | | | | | |
| MW-5 | 12/05/13 | 303.22 | 22.20 | | 281.02 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-6 | 03/21/96 | Not surveyed | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-6 | 06/17/96 | | | | | | | | | | Well Des | troyed Duri | ng Widenir | ng of North | east 160th S | Street | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-7 | 05/21/97 | Not surveyed | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-7 | 08/13/09 | 291.70 | 39.80 | | 251.90 | | | | | | | | | | | | | | | | | | |
| MW-7 | 03/23/11 | 291.70 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-7 | 09/12/11 | 291.70 | 39.63 | | 252.07 | <100 | | | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-7 | 03/07/12 | 291.70 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-7 | 09/12/12 | 291.70 | 39.91 | | 251.79 | | | | | | | | | | | | | | | | | | |
| MW-7 | 09/04/13 | 291.70 | 39.83 | | 251.87 | | | | | | | | | | | | | | | | | | |
| MW-7 | 12/05/13 | 291.70 | 39.88 | | 251.82 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-8 * | 08/13/09 | 299.31 | 15.33 | | 283.98 | <100 | <100 | <100 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.010 | < 0.50 | < 0.50 | <10 | < 0.50 | < 0.50 | < 0.50 | <1.00 | | <0.1 | <0.1 |
| MW-8 | 02/05/10 | 299.31 | 9.95 | | 289.36 | 13,000 | 6,000 d | <100 | 40 | 46 | 580 | 1,500 | | | <2.0 | <20 | <4.0 | <4.0 | <4.0 | | | | |
| MW-8f | 03/11/10 | 299.31 | 13.30 | | 286.01 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | | |
| MW-8 | 08/04/10 | 299.31 | 12.96 | | 286.35 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | | | | | | | | | |
| MW-8 | 03/23/11 | 299.31 | 9.12 | | 290.19 | <100 | <98.0 | 193 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-8 | 09/12/11 | 299.31 | 9.91 | | 289.40 | <100 | <99.0 | <248 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-8 | 03/07/12 | 299.31 | 8.47 | | 290.84 | <100 | <94.3 | <94.3 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <10.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-8 | 09/12/12 | 299.31 | 7.31 | | 292.00 | <100 | 96.2 | <95.2 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | | |
| MW-8 | 09/04/13 | 299.31 | 13.43 | | 285.88 | <100 | <93.5 | <93.5 | <1.00 | <1.00 | <1.00 | <2.00 | | | | | | | | | | | |
| MW-8 | 12/05/13 | 299.31 | 13.50 | | 285.81 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-9 * | 08/13/09 | 299.13 | 19.30 | | 279.83 | 37,000 | 21,000 d | <500 | 34 | 530 | 1,600 | 10,000 | <0.010 | <2.0 | <12 | <250 | <12 | <12 | <12 | 1.64 | | 570 | <0.1 |
| MW-9 g | 02/05/10 | 299.13 | 12.50 | | 286.63 | <100 | <100 | <100 | < 0.50 | <0.50 | < 0.50 | < 0.50 | <0.010 | <0.50 | <1.0 | <10 | <2.0 | <10 | <10 | | | <10 | |
| MW-9 f, g | 03/11/10 | 299.13 | 10.73 | | 288.40 | 14,000 | 6,300 | <100 | 22 | 28 | 380 | 890 | | | <1.0 | <10 | <2.0 | <2.0 | <2.0 | | | 79 | |
| MW-9 g | 08/04/10 | 299.13 | 16.10 | | 283.03 | 41,000 | 22,000 d | <500 | 32 | 290 | 1,700 | 7,000 | | | | | | | | | | 380 | |
| MW-9 | 03/23/11 | 299.13 | 9.26 | | 289.87 | 19,000 | 2,890 | 191 | 51.8 | 30.5 | 551 | 857 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | 42.0 | |
| MW-9 | 09/12/11 | 299.13 | 18.02 | | 281.11 | 59,800 | 5,440 | 271 | 94.8 | 424 | 2,380 | 12,200 | | | | | | | | | | 51.3 | |
| MW-9 | 03/07/12 | 299.13 | 9.46 | | 289.67 | 15,700 j | 5,030 i | 238 | 169 | 46.0 | 513 | 971 | | | 27.0 | <10.0 | <1.00 | <1.00 | <1.00 | | | 75.4 | |
| MW-9 | 09/12/12 | 299.13 | 15.01 | | 284.12 | 40,700 | 8,670 | <95.2 | 119 | 151 | 1,260 | 4,850 | | | | | | | | | | 128 | |
| MW-9 | 12/14/12 | 299.13 | 8.70 | | 290.43 | 11,700 | 2,960 | <96.2 | 111 | 32.8 | 333 | 444 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MW-10 | 01/29/10 | 294.78 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-10 | 02/05/10 | 294.78 | 24.30 | | 270.48 | | | | | | | | | | | | | | | | | | |

| | | | | | | HYD | ROCARBO | ONS | | | PRIMAR | RY VOCs | | | | 0 | KYGENAT | ES | | | LEAD | PAHs | <i>i</i> |
|----------------|-----------------|------------------|--------------|-------|--------|----------------|------------|--------|--------|-------|--------|---------|------|------|-------|-------|---------|-------|-------|-------|-----------|-------------|----------|
| Sample ID | Date | TOC | DTW | SPH | GWE | TPHg | TPHd | ТРНо | В | Т | E | Х | EDB | EDC | МТВЕ | TBA | DIPE | ETBE | TAME | Total | Dissolved | Naphthalene | cPAHs |
| | Model Toxics Co | ntrol Act Method | A Cleanup Le | evels | | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| MW-10 | 08/04/10 | 294.78 | 24.40 | | 270.38 | | | | | | | | | | | | | | | | | | |
| MW-10 | 03/23/11 | 294.78 | 23.63 | | 271.15 | <100 | <97.1 | <97.1 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | | |
| MW-10 | 09/12/11 | 294.78 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-10 | 03/07/12 | 294.78 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-10 | 09/12/12 | 294.78 | 24.55 | | 270.23 | | | | | | | | | | | | | | | | | | |
| MW-10 | 09/04/13 | 294.78 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-10 | 12/05/13 | 294.78 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-11 | 01/29/10 | 293.07 | 14.04 | | 279.03 | | | | | | | | | | | | | | | | | | |
| MW-11 g | 02/05/10 | 293.07 | 12.32 | | 280.75 | 810 | 420d | <100 | 1.0 | 2.3 | <1.0 | 4.5 | | | <1.0 | <10 | <2.0 | <10 | <10 | | | 12 | |
| MW-11 | 08/04/10 | 293.07 | 19.90 | | 273.17 | Insufficient 1 | Water - No | Sample | | | | | | | | | | | | | | | |
| MW-11 | 03/23/11 | 293.07 | 13.53 | | 279.54 | 665 | 155 | <105 | 1.14 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | 0.814 | |
| MW-11 | 09/12/11 | 293.07 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-11 | 03/07/12 | 293.07 | Dry | | | | | | | | | | | | | | | | | | | | |
| MW-11 | 09/12/12 | 293.07 | 11.76 | | 281.31 | 213 | 162 | <95.2 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | 0.456 | |
| MW-11 | 09/04/13 | 293.07 | 12.26 | | 280.81 | 174 | <93.5 | <93.5 | <1.00 | <1.00 | <1.00 | <2.00 | | | | | | | | | | 0.802 | |
| MW-11 | 12/05/13 | 293.07 | 13.95 | | 279.12 | | | | | | | | | | | | | | | | | | |
| MW-12 | 10/12/10 | 299.16 | 50.20 | | 248.96 | | | | | | | | | | | | | | | | | | |
| MW-12 | 10/19/10 | 299.16 | 50.09 | | 249.07 | <100 | <100 | <100 | < 0.50 | <1.0 | <1.0 | <1.0 | | | | | | | | | | <10 | |
| MW-12 | 03/23/11 | 299.16 | 49.24 | | 249.92 | <100 | <98.0 | <98.0 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <20.0 | <1.00 | <1.00 | <1.00 | | | < 0.0990 | |
| MW-12 | 09/12/11 | 299.16 | 49.61 | | 249.55 | <100 | <98.0 | <245 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | 1.43 | |
| MW-12 | 03/07/12 | 299.16 | 49.73 | | 249.43 | <100 | <94.3 | <94.3 | <1.00 | <1.00 | <1.00 | <3.00 | | | <1.00 | <10.0 | <1.00 | <1.00 | <1.00 | | | < 0.0943 | |
| MW-12 | 09/12/12 | 299.16 | 49.80 | | 249.36 | <100 | <95.2 | <95.2 | <1.00 | <1.00 | <1.00 | <3.00 | | | | | | | | | | <0.100 | |
| MW-12 | 09/04/13 | 299.16 | 49.47 | | 249.69 | <100 | <93.5 | <93.5 | <1.00 | <1.00 | <1.00 | <2.00 | | | | | | | | | | < 0.0935 | |
| MW-12 | 12/05/13 | 299.16 | 50.20 | | 248.96 | | | | | | | | | | | | | | | | | | |
| MM 42 | 08/28/13 | 200.77 | 14.45 | | 205.22 | | | | | | | | | | | | | | | | | | |
| MW-13 MW-13 | 08/28/13 | 299.77 | 14.45 | | 285.32 | 11 600 | 2 760 | -02 E | 106 | 52.3 | 190 | 1.060 | | | | | | | | | | 77 1 | |
| MW-13 | 12/05/13 | 299.77 299.77 | 14.36 | | 285.41 | 11,600 | 3,760 | <93.5 | 106 | | 180 | 1,060 | | | | | | | | | | 77.1 | |
| 10100-13 | 12/05/13 | 299.17 | 13.06 | | 286.71 | 14,900 | 3,400 | <106 | 162 | 21.1 | 339 | 738 | | | | | | | | | | 93.4 | |

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet above mean sea level; before August 13, 2009, relative to arbitrary benchmarks

TOC = Top of Casing in feet above mean sea level; before August 13, 2009, relative to arbitrary benchmarks

All results are in micrograms per liter (µg/L) unless otherwise indicated

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-Gx unless otherwise noted. The higher value is based on the assumption that

no benzene is present in the groundwater sample. If any detectable amount of benzene is present in the groundwater sample, then the lower TPHg cleanup level is applicable.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH-Dx with silica gel cleanup unless otherwise noted.

TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH-Dx with silica gel cleanup unless otherwise noted.

VOCs = Volatile organic compounds

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.

Total Xylenes = o-xylene + m,p-xylene

EDB = 1,2-Dibromoethane analyzed by EPA Method 8011

EDC = 1,2-Dichloroethane analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TBA = Tertiary-butanol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

| | | | | | | HYDI | ROCARBO | DNS | | | PRIMAF | RY VOCs | | | | 0 | KYGENAT | ES | | | LEAD | PAHs | |
|--|------|-----|-----|-----|-----|----------|---------|------|------|------|--------|---------|------|------|------|------|---------|------|------|-------|-----------|-------------|-------|
| Sample ID | Date | TOC | DTW | SPH | GWE | TPHg | TPHd | TPHo | В | T | E | X | EDB | EDC | MTBE | TBA | DIPE | ETBE | TAME | Total | Dissolved | Naphthalene | cPAHs |
| Model Toxics Control Act Method A Cleanup Levels | | | | | | 800/1000 | 500 | 500 | 5 | 1000 | 700 | 1000 | 0.01 | 5 | 20 | NE | NE | NE | NE | 15 | 15 | 160 | 0.1 |
| | | | | | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Total Lead analyzed by EPA Method 6020 unless otherwise noted.

PAH = polycyclic aromatic hydrocarbons analyzed by EPA Method 8270C-SIM

cPAHs = carcinogenic polycyclic aromatic hydrocarbons analyzed by EPA Method 8270C-SIM

NE = Not established

<x = Not detected at laboratory reporting limit x

--- = Not analyzed

Concentrations in bold type indicate the analyte was detected above the Model Toxics Control Act (MTCA) Method A cleanup level

- a = Initial analysis within holding time. Re-analysis for the required dilution was past holding time.
- b = Sample container contained headspace
- c = duplicate sample
- d = The sample chromatographic pattern for TPH does not match the specified standard. Quantitation of the unknown hydrocarbon was based upon the specified standard.
- e = Laboratory reporting limit (RL) in excess of the MTCA Method A cleanup level.
- f = Monitoring well was re-sampled due to a suspected field error
- g = Naphthalene analyzed by EPA Method 8260B
- h = The hydrocarbon pattern most closely resembles a gasoline & diesel product.
- i= The contamination did not match any standards in our library.
- j = The hydrocarbon pattern most closely resembles a gasoline product.
- * = Sample also analyzed for one or more of the following: carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by 8270C-SIM, polychlorinated biphenyls (PCBs) by EPA Method 8082, and halogenated volatile organic compounds (HVOCs) by EPA Method 8260B. For those constituents analyzed, no concentrations exceeded the laboratory method detection limits. Please see applicable laboratory report(s) for more information.

Appendix A

Field Forms



WELL GAUGING DATA

| Project #_ | 13082 | 28-LB1 | | Date | 8/28/13 | Client | CRA |
|------------|-------|--------|------------------|------|---------|--------|-----|
| Site | 11700 | NE I | 60 TH | ST | BOTHELL | WA | |

| Well ID | Time | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TO6 | Notes |
|---------|------|---|-----------------|--|---|----------------------|----------------------------|---|---------------------------------------|
| MW-13 | 0825 | 2 | | • | | 14.45 | 24.56 | Ţ | |
| **** | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | | · | |
| | | | | | | | | | |
| | | | | | | - | | ************************************** | |
| | | | | | | | , in | | * |
| | | | | | | | | | |
| | | | | | | | | *************************************** | |
| | | | | | | | | | |
| | | | | | | | | | - |
| | | | | | | | | | , |
| | | *************************************** | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| - | | | | | | | | | |
| | | | | | | | | | |
| | · | | | | | | | | |
| | | | | | | | | | |

WELL DEVELOPMENT DATA SHEET

| Project #: | 130828 | 3-121 | | Client: | CRA | |
|--|--------------------|---|--|---|--------------------|--------------------|
| Developer | | - 13 | | Date Deve | | 5/28/13 |
| Well I.D. | Mw-13 | | | | | one) Ø 3 4 6 _ |
| Total Wel | | moon no commission mate | | Depth to W | | |
| Before z | - | After 24. | S 1 | Before 14. | | 23.95 Er -24. |
| Reason no | | | | | duct, thickr | |
| Additiona | | | 16.47 | | | |
| $\begin{cases} 12 \times (4 + 1) \\ \text{where} \\ 12 = \text{in } / (4 + 1) \end{cases}$ | neter (in.) 416 |): | Well dia. VC 2" = 0.1 0.2 3" = 0.3 0.4 4" = 0.6 0.6 6" = 1.4 10" = 4.0 12" = 6.8 0.8 | 56 57 55 57 77 | | |
| 7 | | X | <i>l</i> o | | | <u>Zo</u> |
| 1 Case V | Volume | | Specifie | d Volumes | This is | gallons |
| Purging De | vice: | Bailer Middleburg Type of Insta | | Electric Subr Suction Pum | p | |
| | | Other equipm | Cond. | SUPER BLO | | |
| TIME | TEMP (F) | pН | (mS or as) | TURBIDITY (NTUs) | VOLUME REMOVED: | NOTATIONS: |
| 0630 | | Surg | EO WELL | w/ sup | SE BLOCK | FOR 10 MEN. |
| 0843 | | STAR | | @ 0.5 | GPM = | |
| 0847 | 62.6 | 7.52 | 2852 | 71000 | 2 | VERY SELTY , BROWN |
| 0851 | 59.9 | 7.35 | 1860 | >1000 | 4 | SILTY |
| 0855 | 59.0 | 7.27 | 1842 | >1000) | 6 | SILIY |
| | | WELL | DEWATERED | 0, 6 | GALLONG | : DTw: 24. 22 |
| 0900 | | CONTRACTOR OF THE PROPERTY OF | | | | DINE 23.78 |
| 6205 0910 | | | CONTROL TO BE AN AD THE SECOND CONTROL OF TH | | | DTW: 22.71 |
| 0920 | | | AND AND DOOR OF THE PROPERTY O | | | pw: 21.98 |
| 0930 | | | | | | DTW: 21,83 |
| 1660 | | | | West State of the | | DTW: 20.94 |
| 1001 | | Su | egeo hic | er W/ | SURGE BO | oge FOR BOWEN |
| 195 | | i | | 0 6.25 | | |
| Did Well Dew | ater? | If ves, note abov | | Gallons Actually | | K |

WELL DEVELOPMENT DATA SHEET

| Well I.D. | Mw-13 | PAGE 2 OF 2 | |
|------------|-------------|-------------|--|
| Project #: | 130828- 481 | Client: CPA | |

| TIME | TEMP (F) | рН | Cond. (mS or (1S)) | TURBIDITY (NTUs) | VOLUME REMOVED: | NOTATIONS: |
|--|----------|----------|-----------------------|---------------------|--------------------|-------------|
| loze | 59.1 | 6.64 | 1859 | >1000 | 8 | SELTY BROWN |
| 1032 | 59.3 | 6.81 | 1843 | >1000 | \$ 10 | Say |
| | | | DEWATERLY | 0 C_ | 10 GAL | |
| January Control of the Control of th | | DEVEZUPI | | COMPLETE | | bm: 23.95 |
| | | | | | | TWO 2 24.61 |
| : | | | | - | | ` |
| | | | | | | |
| : | | | | | | |
| | | | | | | |
| : | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| : | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| : | | : | | | <u></u> | |
| | | | | | | |
| | | | | | | |
| : | | | | | | |
| | | | | | | |
| <u>.</u> | | | | | | |
| : : | | | | | | |
| : | | | | | | |
| | | | | | | |

| | , | | 1 |
|------|---|----|---|
| Page | , | of | , |

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT# DATE:

ADDRESS

1700 NE 160TH ST

CITY & STATE

BOTHELL WA

| | | | | | | AND ASSESSMENT OF THE PARTY OF | vations U | lpon Arri | val | | | | | | Note Repairs Made | Dhai | os of | Repair Date |
|--|-------------------------------|-------------------------|---------|------------|-------------------------|---|----------------------------|-----------|------------------------|------------|------------------------------|--------|--------------------------|-------------------------|---|----------|-------------------------|---|
| .Well ID | Manwa | ıy Caver, | Type, C | ondition | & Size | Pai | abeled / nted perly* | (Gri | Cap pper) dition | Well L | ock Cor | dition | Sur | Pad / face dition | Detailed Explanation of Maintenance Recommended and Performed | W | elf iition | and PM Initials |
| MW-13 | Standpipe | Flush | © | Р | Size (inch) | B | N | 6 | R | G | R | ₩C | <u>ق</u> | Р | | Y | (A) | |
| | Standpipe | Flush | G | Р | Size (inch) | Y | N | G | R | G | R · | NL | G | Р | | Y | N | |
| | Standpipe | Flush | G | P | Size (inch) | Υ | N | G | R | G | R | NL | G | Р | | Y | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Υ | N | G | R | G | R | NL | G | Р | | Υ | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Υ | N | G | R | G | R | NL | G | Р | | Υ | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Y | N | G | R | G | R | NL | G | Р | | Υ | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Y | N | G | R | G | R | NL | G | Р | | Υ | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Y | N | G | R | G | R | NL | G | Р | | Y | N | |
| | Standpipe | Flush | G | Р | Size (Inch) | Y | N | G | R | G | R | NL. | G | Р | | Υ | N | · |
| | Standpipe | Flush | G | Р | Size (inch) | Y | N | G | R | G | R | NL | G | Р | | Υ | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Y | N | G | R | G | R | NL | G | Р | | Υ | N | |
| | | | | | тот | AL # CAI | S REPL | ACED = | 0 | | ١ | = TOTA | L#OFLO | OCKS RE | EPLACED | <u> </u> | l | |
| Condition of Abando | Soll Boring F oned Monitor | | G | Р | 6 | II. | POOR, 80 | rings/Wel | I IDs or L | ocation De | scription | | | | | Y | N | |
| revenue a partir de la companya de l | n Compound exes that app | | Cond | ition of E | nclosure | | lon of Are Enclosure | | Com | pound Se | curity | Emerg | ency Con Visible | | Cleaning / Repairs Recommended and Conducted | | tos of dition | Repair Date and PM Initials |
| NA Buildir Building w/ Fer Fenced Con Traile | nce Comp. npound | × | G | P | N/A | G | Р | N/A | G | Р | N/A | Y | N | N/A | | Y | N | |
| Number of Drums On-site | Does the Source | Label Rev of the Cor | | Labeled | Correctly as Legible | nd Writing | On | um Condi | flon | Relai | n Drums led to nmental | | s Located less Interi | | Detailed Explanation of Any Issues Resolved | O. | tos of rum dition | Date Drums Removed from Site and PM initials |
| 3 | Ø) | N | N/A | 8 | N | N/A | ىق | Р | N/A | 8 | N | 8 | N | N/A | 20 (17 april 17 april 18 april | Y | E | n is a street speech of the large (1994). |

G = Good (Acceptable) R = Replaced

Note: All repairs other than locks and grippers require Shell PM approval prior to repair,

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

LEE BURES, Print or type Name of Field Personnel & Consultant Company

P = Poor (needs attention) NL = No Lock Required

^{* =} Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

SOURCE RECORD BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72^{ND} Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

| 9299501 | 7 | | Perry Pineda | | | | |
|---------------|----|-----------|--------------|----------------|-----|-------|--|
| INCIDENT # | | | | Shell Engineer | | | |
| 11700 | ME | 16074 | ST. | BOTHELL | WIA | | |
| street number | | street na | | city | | state | |

| WELL I.D. GALS. | WELL I.D. GALS. |
|--|--------------------------------|
| MW-13 / 10 | |
| | |
| | |
| | |
| | |
| | |
| | |
| | 1 |
| added equip. rinse water <u>/</u> i | any other adjustments / |
| TOTAL GALS. RECOVERED | loaded onto BTS vehicle #88 |
| BTS event # tir | ne date |
| signature /30626-48/ | 1040 8 / 28 / 13 |
| oignature | 2 |
| ****** | ****** |
| RECEIVED AT | time date |
| BTS Kent | |
| unloaded by signature | |
| | |

Revision No.: 1.0

| | | Job Clearan | ce Porm | | |
|---|---|---|--|---|--|
| WICHTHANDSKIP CONTROL OF THE STATE OF MICHAEL | ABANANT ANUT HIGGS CANDING TO SEE DO NATE LINE OF THE | de alla et moi por alle de des volt (1825 et 1921) de | and the about of all such such services | e or the Text to be performed in the polarital in | MY CORPORE TO COME THE PROPERTY OF THE PROPERT |
| alon# 1299500 Station Address: 1170 | O NE 160TH ST B | STHELL WA | Work Order Number: | 130828-181 | Ome: 8/28/13 |
| BLACINE TECH SERVICES | ONE 160TH ST B Continuous person in change (print remaje LEE BURE | Number of Warlase: | JBA Paterince Humber: ([[required] | Start Time: End Time: | Labor: Travel Litror Travel Distances: |
| oblem/Work Description: | | | | 1000 5.0 | |
| D-10-0 | | | | | Return Calk yea/ no |
| DEVELOP GI | ROUNDWATER W | ELL MW-13 | | | Damage Claim: yes/no |
| | | COLUMN THEORET CHECKAND | OR GICLBLANK SPACER | | |
| SAFETY VEST | ▼ HARD HAT | SHOES & BOOTS | Service - | G PROTECTION | RESPIRATOR |
| PROTECTIVE CLOTHING | XGLOVES | SAFETY GLASSES/GOOGL | ES WELDIN | IQ PPE | OTHER |
| | Confraelor to complete this s | ction below if direcurratances on site or specific the JSJ | to this job, may ganerate additions | l hazards, tratare not described in | |
| BOOK DE CONTROL CONTROL VANCOUED AND CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CO | | (Nacarda (Patenya) | design the management of the second s | S Havis and the | akoral minakanak anakokappe (a kowom 🦠 🚐 |
| | | | | | |
| SEE JSA | | NA | | | NA |
| | | | MARKET STATE OF THE STATE OF TH | | |
| | | | V. | | |
| | | | | | |
| Work documentation requirements: | Lower Risk - m JSA required | Madium Hisk/ Higher Risk teak | L - 18A required | Higher Rick - JSA required & appropriate that | :kilst completed (use below) |
| | | | ☐ Hotwork ☐ LPG syste | orlined spaces (e.g. tark, Interceptor or deep m with risk of product or vepor lightlen em degessing, Installation or meinterance | antile artry) |
| SIGN IN | | Signatura | | SIGN OUT | Contractor elignature |
| erating sites: b be signed by the Site Representative n-operating at ba: to be eigned by Contractor Representative | LEEBURS > | | GENERAL SAFETY CH | | |
| ORY GENERAL SAFETY CHECKS | LEWIS - | | Has the work erea been left day and a Are site personnel ewere of status of | | |
| Have all site personnel been informed ? | Ste representative name | | remaining ladation? Are changes to equipment documents | | nama Gignature |
| Has the delivery service bean informed? | In the distance of the second section with comme | | Al incidents, near Incidents , unsale s | · | Contains (pilet) per secon |
| sa tid delivery due? | Mad. Carra | 1// | Other | 1 | |
| Have leokation procedures been egreed - lock out/tag out? Answork ereas combined of to protect workers, site staff & | Jack Cooper | Jack tur | | jack | (ooper fuch for |
| public? Other | | | | | |
| TIS - Ordered, Replaced and/or Disposed Of (include model o | | | at see | | |
| | | | National Control | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| e contractor forcught is authorized representative shall sign, la sue | and be solely responsible for all lob clearance for | ns and the oblications arising there under applical | de to fre work. | | |

| TO 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - 4 |
|--|-------|
| BLAIN | |
| | |
| TECHLOCK | 4000 |
| TECH SER | ハバヘドシ |
| | |

Daily Tailgate Safety Meeting Checklist & Hazard Mitigation Form

TGSM

| Site Add | Iress: 11700 NE 1607# S7. T | BOTHELL WA | | Date: 8/28/13 | | |
|-----------|--|---|--|--------------------|--|--|
| Check-l | n with site representative completed? | 701" | | Yes N/A | | |
| | elivery scheduled for today? | | | Yes X No N/ | | |
| ļ | ncy pump cut-off switch located? | <u> </u> | | Yes N/A | | |
| | kit located and confirmed ready-to-us | se? | | Yes | | |
| | inguisher located and confirmed ready | | | Yes | | |
| | sh located and confirmed ready-to-use | | \$2.00 pp. 100 | Yes | | |
| | Emergency Services information lo | | Yes | | | |
| | Hospital map & route located and re | eviewed? | | Yes | | |
| HASP | Special Hazard Notice section review | ewed? | | ∑ Yes | | |
| ПАЗР | Site Status confirmed or amended, | dated and initialed? | | ∑ Yes | | |
| | Emergency Response procedures | reviewed with all work o | rew members? | Yes | | |
| | Compliance Roster signed by all we | ork crew members? | | | | |
| Site wal | k has been performed to locate wells a | and identify additional h | azards? | Yes | | |
| | ety Analysis (JSA) for each task locat | | | Yes Yes | | |
| <u> </u> | rea Plans reviewed for suitability and e | | | Yes N/A | | |
| | Control Plans reviewed for suitability g | ······································ | | Yes 🔼 N/A | | |
| Stop Wo | ork Authority reviewed and understoo | d by all work crew mem | ibers? | X Yes | | |
| • Re | rocedures and/or JSA's or impede the safe ontrol Plan(s). eport unaddressed hazards and adverse contified or conditions change throughout the ONOT COMMENCE OR RESTART WOR | onditions to the Project Ma e workday. | anager during Pre-Start Call-In | and as hazards are | | |
| Time | Hazard or Adverse Condition | PM Initials | Hazard Contro | ol Measure | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | resentative briefed on planned work ac | Plans? | Yes N/A | | | |
| | arance Form completed? | | | X Yes | | |
| | t Call in completed and approval to sta | | | | | |
| Printed N | t Call-In completed and approval to sta | Signature Signature | Project Manager? | Yes Time | | |

WELL GAUGING DATA

| Project # | 130 | 1904- | LBI | Dat | e <u>9/4/1</u> | 3 | | Client | CRA | |
|-----------|-------|-------|-------|-----|----------------|---|-----|--------|---------|------|
| Site | 11700 | NE | 1007# | ST | BOTHELL | , | WIA | | | |

| Well ID | Time | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Surv Poi TOE | nt: 3 or | Notes |
|---------|------|-----------------------|-----------------|--|---|---|----------------------|----------------------------|--------------------|-------------|-------|
| Mw-3 | 0820 | 4 | OPOR | 27.22 | 0.02 | | 22.24 | | | | |
| MW-4 | 0801 | 4 | | | | | 32.51 | 39.11 | | | |
| Mw-5 | 0609 | 4 | | | | | 21.78 | 24.63 | | | |
| MW-7 | 0748 | 4 | | | | | 39.83 | 39.95 | | | |
| MW-8 | 0615 | 2 | | | | | 13.43 | 24.61 | | | |
| MW-10 | 1340 | て | | | | | DR/ | 24.74 | | | |
| MW-11 | 0828 | 2 | | | | | 12.26 | 19.63 | | | |
| MW-12 | 0755 | 2 | | | | | 49.47 | 59.45 | | | |
| Mw-13 | 0635 | 2 | | | | | 14.36 | 24.53 | | | |
| | | | | | | | | | l. | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | · | | |

| | | | | | | | | | | | |
|---|---|-------------------------|--|---------------------------------------|--|--|---------------------------------------|----------------------|--|--|--|
| Project #: | 13090 | 04 - LBI | : | Client: CRA | | | | | | | |
| Sampler: | LB | | | Gauging D | Gauging Date: 9/4/13 | | | | | | |
| Well I.D. | : Mw.3 | | | Well Diameter (in.): 2 3 4 6 8 | | | | | | | |
| Total We | ll Depth (f | t.): | Supplied Control of the Control of t | Depth to W | Vater (ft.) | 27.2 | 24 | | | | |
| Depth to | Free Produ | ıct: 27 | . 22 <u> </u> | Thickness | Thickness of Free Product (feet): 0.02 | | | | | | |
| Reference | ed to: | PVC | Grade | Flow Cell | Type: | | | | | | |
| Purge Methors Sampling Months Start Purge | | 2" Grundfo Dedicated | / . | | Peristaltic P New Tabing | | Bladder Pump Other_ Pump Depth: | | | | |
| Time | Temp. | рН | Cond. (mS/cm or µS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or mL) | Depth to Water (ft.) | | | |
| e*move. | AND | | 0.02 | OF SPA | DETEC | TEO | ni | | | | |
| | | | TAIR | RFACE | PROBE | | | | | | |
| | | - VER | FIED V | A BAIL | ER SH | ock B | ACK | | | | |
| | | | DOWN | 1 | | Control of the Substitute of t | | | | | |
| | | | | | | | | | | | |
| | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | No San | IPLE TAI | rEn/ | | | | | | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 17.22 | | | | | | | |
| | | | | | | | | | | | |
| | | <u></u> | | <u> </u> | | L, | | | | | |
| Did well | dewater? | Yes | No / | | Amount a | actually e | evacuated: | | | | |
| Sampling | g Time: | | | | Sampling | Date: | | | | | |
| Sample I | .D.: | | | | Laborato | ry: | | | | | |
| Analyzed | l for: | 7РН-G | BTEX MTI | BE TPH-D | | Other: | | | | | |
| Equipme | nt Blank L | 6.: | @ Time | | Duplicate | : I.D.: | | | | | |

| Project #: | 1309 | 04-481 | | Client: | CRA | | | | | |
|-------------|------------------|--|------------------------------|--------------------------------|----------------------------------|-------------|-----------------------------|---|--|--|
| Sampler: | LB | | | Gauging Date: 9/4/3 | | | | | | |
| Well I.D. | : Mw-4 | | | Well Diam | Well Diameter (in.): 2 3 (4) 6 8 | | | | | |
| Total We | ll Depth (f | t.): 39 |). _I | Depth to V | Vater (ft.) | : 32.5 |) | | | |
| Depth to | Free Produ | uct: | | Thickness | of Free Pr | oduct (fe | eet): | | | |
| Reference | ed to: | PODE | Grade | Flow Cell | Туре: у | SI 556 | | | | |
| | | 2" Grund(Dedicated | Pubing | Peristaltic Pump New Tubing | | | Bladder Pump Other | | | |
| Start Purge | Time: <u>093</u> | <u>o</u> | · | 100 mL/ | INTIV | | Pump Depth: | 38′ | | |
| Time | Temp. | рН | Cond. (mS/cm or µG/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or mt) | Depth to Water (ft.) | | |
| 0939 | 16.16 | 663 | 274 | 13 | 1.26 | 938 | 900 | 32 <i>, 5</i> 9 | | |
| 0942 | 16-21 | 662 | 784 | 12 | 1.26 | 90.4 | 1200 | 37.62 | | |
| 0945 | 16.26 | 6.61 | 287 | 11 | 1.25 | 863 | 1∞∞ | 32.65 | | |
| 0948 | 16.28 | 6.59 | 288 | 10 | 1.24 | 85.2 | 18∞ | 32.68 | | |
| 0951 | 16.29 | 6.58 | 290 | 10 | 1.23 | 84.3 | 2100 | 32.71 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Did well o | l dewater? | Yes | No. | | Amount | etuelly e | vaquotod: - | | | |
| | | ······································ | MQ. | | | | vacuated: 21 | _ | | |
| Sampling | | 0952 | | | Sampling | Date: | 9/4/13 | | | |
| Sample I. | D.: 6W- | 241809. | 090413.18 | -MW-4 | Laborator | ry: 7 | 4 | *************************************** | | |
| Analyzed | for: | TPH-B | BOEX MTE | BE TPHO | | Other: Se | ECOC | | | |
| Equipmen | nt Blank I. | D.: | @ Time | Duplicate I.D.: | | | | | | |

| Project #: | 13090 | 04-4BI | | Client: | CRA | | | | | |
|--|--------------------|----------|------------------------------|----------------------|---|----------------|--|---|--|--|
| Sampler: | LB | | | Gauging Date: 9/4/13 | | | | | | |
| Well I.D.: | : Mk1-5 | | | Well Dian | Well Diameter (in.): 2 3 (6 8 | | | | | |
| Total We | ll Depth (f | it.): 24 | 163 | Depth to W | Vater (ft.) | : 21.7 | გ | | | |
| Depth to] | Free Produ | | ! | Thickness | of Free Pr | | | | | |
| Reference | ed to: | P℃ | Grade | Flow Cell | | | | | | |
| Purge Method: 2" Grundfos Pump Sampling Method: Dedicated Jubing | | | Bubing | | Peristatic Pump Bladder Pump New Dubing Other | | | | | |
| Start Furge | Time: <u>/62</u> 7 | <u> </u> | Flow Rate: | 100 mL/ | MAN T | | Pump Depth: | 23.51 | | |
| Time | Temp. | pH | Cond. (mS/cm or µ8/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or mt) | Depth to Water (ft.) | | |
| 1033 | 15.63 | 648 | 440 | /1 | 1.65 | 944 | 600 | 21.61 | | |
| 1036 | 15.69 | 6.47 | 443 | 10 | 1.53 | 91.1 | 900 | 2182 | | |
| 1039 | 15.68 | 6.46 | 444 | 10 | 1.51 | 86.9 | 1200 | 21.82 | | |
| 1042 | 15.67 | 6.46 | 445 | 9 | 1.50 | 853 | 1500 | 21.83 | | |
| 1045 | 15.66 | 6.45 | 446 | 8 | 1.49 | 84.5 | 1800 | 21.83 | | |
| | | <u> </u> | | | | | | | | |
| | | | | | | | , | | | |
| | | | | | | | | | | |
| | | <u> </u> | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Did well | dewater? | Yes | Pa | - | Amount a | actually e | evacuated: | 1.8 L | | |
| Sampling | Time: | 1046 | | | Sampling | ; Date: | 9/4/13 | | | |
| Sample I. | D.: Gw- | .Z41609· | 090413 · LB - | -MW-5 | Laborator | ry: <i>す</i> / | A | | | |
| Analyzed | | TRH-G | BYEN MIB | | | Other: 56 | ====================================== | | | |
| Equipmer | nt Blank I. | D.: | @ Time | | Duplicate | | | *************************************** | | |

| | | | 2011 112 | AND THE OTHER | | ****** | | | |
|--|--------------|---------|------------------------------|----------------------------------|----------------------------|-------------|-----------------------------|--|--|
| Project #: | : 13090 | 34- LBJ | | Client: CRA | | | | | |
| Sampler: LB | | | | Gauging Date: مراط Gauging Date: | | | | | |
| | | | | Well Diar | neter (in.) | | 6 8 | | |
| Total We | ell Depth (f | t.) : | 39.95 | Depth to | Water (ft.) | : 39.8 | 3 | | |
| Depth to | Free Produ | | | Thickness | of Free Pr | | | | |
| Reference | | PXC | Grade | } | Type: 1/2 | | | | |
| Purge Method: 2" Grundfos Pump Sampling Method: Dedicated Tubing | | | | | Peristakto P New Yubing | 'ump | Bladder Pump Other | / | |
| Start Purge | Time: | / | Flow Rate: | | | | Pump Depth: | | |
| Time | Temp. | рН | Cond. (mS/cm or µS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or mL) | Depth to Water (ft.) | |
| | | | INSUFFER | TENT | WATER | 10 | SAMPLE - | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | 1 1/6 | SAMPLE | TAKEN | | | | |
| | | | | | | | | | |
| Did well | dewater? | Yes | Ng | | Amount a | actually | vacuated: | | |
| Sampling | g Time: | / | / | | Sampling | ; Date: | | ······································ | |
| Sample I | .D.: | | | | Laborato | y : | | | |
| Analyzed | l for: | TPH-G | втех мт | BE TPH-D | | Other: | | | |
| Equipme | nt Blank I. | D.: | @ Time | Duplicate I.D.: | | | | | |

| Project #: | 1369 | 04-431 | | Client: | CRA | | | |
|----------------------------|-------------|---|------------------------------|---------------------|---|-------------|---------------------------------|----------------------|
| Sampler: | LB | | | Gauging D | ate: 9 | 14/13 | | |
| Well I.D.: | | *************************************** | | Well Diam | eter (in.): | <i>O</i> 3 | 4 6 8 | |
| | | | | Depth to W | /ater (ft.) : | 1343 | | |
| Depth to Free Product: | | | | Thickness | of Free Pr | oduct (fe | et): | |
| Reference | ed to: | PVE | Grade | Flow Cell | Туре: | VSI 653 | 6 | |
| Purge Metho Sampling Me | | 2" Grundfo Dedicated | - | | Peristatue Pump Bladder Pump New 20bing Other | | | |
| , 0 | | | Flow Rate: _ | 100 ML | MIN | ****** | Pump Depth: | 16. |
| Time | Temp. | pН | Cond. (mS/cm or µS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or net) | Depth to Water (ft.) |
| 1119 | 16.65 | 6.25 | 35) | 13 | 1.92 | 95.1 | 600 | 13.51 |
| 1122 | 16 64 | 624 | 350 | 11 | 1.88 | 91.6 | 900 | 13.53 |
| 1125 | 16.59 | 6.23 | 347 | 10 | 1.81 | 89.5 | 1200 | 13.56 |
| 1128 | 16.58 | 6.22 | 3477 | 9 | 1.80 | 863 | 1500 | 13.58 |
| 1131 | 16.57 | 621 | 346 | 8 | 1.79 | 85.5 | 1800 | 13.61 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Did well | dewater? | Yes | N6) | | Amount | actually | evacuated: / | BL |
| Sampling | g Time: | lızz | | | Sampling | g Date: | 9/4/13 | |
| Sample I. | | ······································ | 190413- LB- | Mu/-9 | Laborato | ry: TA | | |
| Analyzed | | 79FFG | BEEX MT | | | ,,, | EE COL | |
| | nt Blank I. | | @ Time | | Duplicate | , | | |

| | | ~~ | | | | | | | | | |
|-------------------------------|-------------|------------------------|------------------------------|----------------------|--|-------------|---|--|--|--|--|
| Project #: | 130804 | 1-LB/ | | Client: | CRA | | | | | | |
| | | | | Gauging Date: 9/4/13 | | | | | | | |
| Well I.D. | : Mw-, | 10 | | Well Dian | neter (in.): | 6 3 | 3 4 6 8 | | | | |
| Total Well Depth (ft.): 24.74 | | | | Depth to V | | | | • | | | |
| Depth to | Free Produ | | | | Thickness of Free Product (feet): | | | | | | |
| Reference | | P (C) | Grade | Flow Cell | | | | | | | |
| Purge Metho Sampling M | | 2" Grundf Dedicated | | | Peristaltic Pamp Bladder Pump New Tubing Sther | | | | | | |
| Start Purge | Time: | | Flow Rate: _ | | | Pump Depth: | | | | | |
| Time | Temp. | pН | Cond. (mS/cm or µS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or mL) | Depth to Water (ft.) | | | |
| | | | WELL | IS DR | <u> </u> | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| - | | | No SAM | IPLE - | TAKEN | | gg grant and procedure and september 2002 to the respective and the state of the section of the | † | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| D:411 | da | <u> </u> | <u> </u> | <u> </u> | A | 2002112 | <u> </u> | <u> </u> | | | |
| | dewater? | Yes | N/S | | | / | evacuated: | | | | |
| Sampling | | / | | | Sampling | | | · | | | |
| Sample I | | $-\!\!\!/-$ | | | Laborato | ry: | | | | | |
| Analyzed | l for: | TPH-G | BTEX MT | BE TPH-D | | Other: | | ······································ | | | |
| Equipme | nt Blank I. | .D.: | @ Time | | | e I.D.: | | | | | |

| | | | | ····· | | | | | | |
|--|-------------|------------|------------------------------|------------------------|---|--------------|------------------|-------------------------|--|--|
| Project #: | 13090 | 41-481 | | Client: | CRA | | | | | |
| Sampler: | LB | | | Gauging Date: $9/4/13$ | | | | | | |
| Well I.D.: | : MW-11 | | | Well Diameter (in.): | | | | | | |
| | | | | Depth to V | Vater (ft.) | : 12.26 | | | | |
| | Free Produ | | | | Thickness of Free Product (feet): | | | | | |
| Reference | | P V | Grade | Flow Cell | Type: 1/5 | I 656 | | | | |
| Purge Method: 2" Grundfos Pump Sampling Method: Dedicated Tubing | | | | | Peristable Pump Bladder Pump New Tubing Other | | | | | |
| | | | | 100 mx/ | MIN | transference | Pump Depth: 15 ' | | | |
| Time | Temp. | pН | Cond. (mS/cm or µ8/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed | Depth to Water (ft.) | | |
| 1213 | 1662 | 6.95 | 326 | 11 | 1.10 | -15.3 | 600 | 12.31 | | |
| 1215 | 1672 | 6.96 | 326 | 10 | 0.97 | -17.3 | 960 | 12,34 | | |
| 1218 | 6.78 | 6.97 | 327 | 10 | 0.95 | -18.1 | 1200 | 1236 | | |
| 1221 | 16.77 | 6.98 | 327 | 9 | 0.94 | -19.8 | /5∞ | 12.39 | | |
| 1224 | 16.76 | 6.99 | 328 | 10 | 0.93 | -20.4 | 1800 | 1241 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | 1 | | | | | | | |
| Did well | dewater? | Yes | <u> </u> | | Amount | actually 6 | evacuated: / | ·8L | | |
| Sampling | Time: | 1225 | | | Sampling | g Date: | 9/4/13 | | | |
| Sample I. | D.: 6W-2 | 41609-0 | 190413-LB-1 | MW-11 | Laborato | ry: 7/ | 4 | | | |
| Analyzed | | | BIEX MI | _ | | Other: 50 | EL COC | | | |
| Equipmen | nt Blank I. | | @ Time | | Duplicate I.D.: | | | | | |

| Project #: | 13 | 0904-LE | S) | Client: | CRA | | | | | |
|-------------------------------|--------------------|------------------------|------------------------------|---|-----------------------------------|--|------------------------------|----------------------|--|--|
| Sampler: | L | В | | Gauging D | ate: 9 | 1/4/13 | | | | |
| Well I.D. | : MW-12 | • - | | Well Diameter (in.): 2 3 4 6 8 | | | | | | |
| Total Well Depth (ft.): 59,45 | | | Depth to V | Vater (ft.) | : 49.47 | 7 | | | | |
| Depth to | Free Produ | | : | Thickness | Thickness of Free Product (feet): | | | | | |
| Reference | ed to: | PYC | Grade | Flow Cell | Type: | YSI 556 | | | | |
| Purge Metho Sampling M | | 2" Grunde Dedicated | , . | | Peristaltic P | - | Bladder Pump Other_ | | | |
| Start Purge | Time: <u>084</u> . | 3 | Flow Rate: _ | 100 1 | LIMEN | are and the second seco | Pump Depth: | 55′ | | |
| Time | Temp. | pН | Cond. (mS/cm or µS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or nat) | Depth to Water (ft.) | | |
| <i>ે</i> 852 | 16.15 | 6.39 | 424 | 15 | 1.87 | 84.4 | - 1800 900 | 49.58 | | |
| 08 55 | 15.62 | 640 | 425 | 12 | 1.78 | 62Z | 1200 | 49.61 | | |
| 0858 | 15.45 | 6.43 | 426 | 12 | 1.72 | 80.4 | 1500 | 49.64 | | |
| 0901 | 15.43 | 6.44 | 424 | 11 | 1.71 | 79.2 | 16e | 49.67 | | |
| 6904 | 15.42 | 645 | 425 | 10 | 1.70 | 786 | 2100 | 49.69 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| D'111 | 1 , 0 | 1 | | | | | <u> </u> | | | |
| Did well | | Yes | <u> </u> | *************************************** | Amount | actually 6 | evacuated: z. | 16 | | |
| Sampling | Time: | 0905 | | | Sampling | Date: | 9/4/13 | | | |
| Sample I. | D.: 6W- | 241809- | 090413. LB | -MX-12 | Laborato | ry: T | 1 | | | |
| Analyzed | for: | TPH-0 | BZEX MTE | BE TEH-D | | Othern S | ice ca | | | |
| Equipmen | nt Blank I. | D.: | @ Time | Duplicate I.D.: | | | | | | |

| , | ····· | | | | | | ····· | | |
|--|-------------|-------|--------------------|---|----------------|-------------|-----------------------------|----------------------|--|
| Project #: 130904 -481 | | | Client: | CRA | | | | | |
| Sampler: | | | | Gauging Date: 9/4/13 | | | | | |
| Well I.D. | <u></u> | | | Well Diameter (in.): (2) 3 4 6 8 | | | | | |
| Total Well Depth (ft.): Z4.63 | | | | Depth to W | Vater (ft.) | : 14.30 |) | | |
| Depth to Free Product: | | | | Thickness of Free Product (feet): | | | | | |
| Reference | | PÓ | Grade | Flow Cell | Type: 🎉 | 5I 53G | | | |
| Purge Method: 2" Grundfos Pump Sampling Method: Dedicated Tubing | | | | Peristalic Pump Bladder Pump New Rubing Other | | | | | |
| • | | | | 100 mL/ | NEN | | Pump Depth: | 17' | |
| Time | Temp. | pН | Cond. (mS/cm or | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or ML) | Depth to Water (ft.) | |
| 1256 | 16.11 | G.45 | 1051 | 13 | 1.21 | - 10.4 | 600 | 14.41 | |
| 1254 | 16.09 | 646 | 1052 | 13 | 1.15 | -14.5 | 900 | 14. 44 | |
| 1302 | 16.07 | 653 | 1059 | 11 | 1. 14 | -21.9 | 1200 | 14.47 | |
| 1305 | 16.06 | 654 | 1058 | 10 | 1.13 | -22.7 | 1500 | 14.49 | |
| 1308 | 16.05 | 6.55 | 1057 | 9 | 1.12 | -23.6 | 1800 | 14.51 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | <u> </u> | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Did well | dewater? | Yes | 160 1 | | Amount : | actually 6 | levacuated: /.8 | <u>↓</u> 3∠ | |
| Sampling | 2 Time: | 1309 | | *************************************** | Sampling | | 9/4/13 | | |
| Sample I | | | <i>C</i> 20 A | 12 | Laborato | | | | |
| Analyzed | | | 090413-18- | | 2001010 | · / / | | | |
| | | TeH-O | @ MTI | BE Tett-D | D1: | Other: 5 | E CO(| | |
| Equipme | nt Blank I. | .D.: | Time | | Duplicate | e I.D.: | | | |

| | LAB (LOCATION) |) | | | | | 6 | | ; | Shell | l Oil | Pro | odu | cts | s Ct | nair | 10 | f C | ust | ody | | | | | | | | | | | |
|---|--|---|--|--|-------------------------------------|--------------|----------------|---|------------------|--------------|---|----------|-------------------|--------------------------|--|-----------------|-------------------|-------------|------------|------------------------|---------|-------|------------------------|-------------|-----------|-----------|----------|-----------------|--------------|-------------------------------|--|
| CALSCIENCE (| | | | | Please (| Check A | pprot | riate B | ox: | | | Pri | nt Bill | To | Conta | ct Na | me: | | | | INC | IDENT | # (E | NV : | - | ****** | | | | IDENT # APPL | IES |
| SPL Houston | (| | ENV. SE | VICES | 1 | | MOTIVA R | RETAIL | | SHELL F | RETAIL | Chi | ristina | Mc | Clella | nd - 2 | 24180 | 9.20 | 12.02 | | 9 | 2 9 | 9 9 | 5 | 0 | 1 | 7 | DAT | re: <u>9</u> | 14/13 | |
| XENCO (| | | MOTIVA | SD&CM | | | CONSULT | ANT | | LUBES | | | | | | PO | | | | | | | military. | P# | | | | | | , | Y |
| ▼ TEST AMERIC | ZA (|) | | | ; } | - | Оотн | | L | | | 200 | 1 T | T | <u> </u> | <u> 18165.1</u> | T | T | | T | 1 | | T | T | 6 | | 4 | PAG | 3E: | /_ ot | <u>/</u> |
| OTHER (| | | SHELL PI | PELINE |] | | LOGCOOE | :к | | | | 8176 | Annes | S: Sne | eet and Ci | <u></u> | <u> </u> | | L | | State | | 12 | O BAL DA | 5 | 3 | 1 | | | | |
| Blaine Tech S | orvicas | | | | | | 100 0000 | • | | | | 111 | 700 N | NE 1 | 160th | , Bo | thell | | | | WA | | NA | | | | | | | | |
| ADDAESS: | | | | | | | l | | | | | EOF O | ELIVERABLE | TO Ph | vne, Compar | y, Office L | ocasion): | | ŧ | NE NO.: 25-563- | | E-M | i. | | | | | | | CONSULTANT | PROJECT NO.: |
| | w Avenue, Carson, tectopy or POF Report to): | CA 90746 | | | | | | | | | | CR/ | A, Seatt | lle, W | /A | | | | 4 | 5-563- | | Sh | all-US | -LabE | ataM | anaga | ment | @CR/ | Aworld.com | 130 | 704-1BI |
| Lorin King | ···· | FAY: | | T E-MAL: | | | | | | | | - | | | - | | | | | | | | | | | | -7" | | | | |
| (310) 885- | 4455 x 108 | (310) 637-58 | 302 | | | <u>lkin</u> | q@blain | etech.co | <u>m</u> | | | <u> </u> | LE | £ . | Bup | <u>'ES</u> | | | | | | | | | | | | | | | |
| TURNAROUND T | TIME (CALENDAR DAYS 4 DAY) S DAYS | | □ 2 DAY | ; <u> </u> |] 24 HOURS | | | RESUL | TS NEEDEC | ON WEEK | END | | , | | | | · | — | | | REQU | ESTE | ANA (| LYS | IS | | | | | | |
| ☐ LA - RWQCB | REPORT FORMAT | UST AGENCY: | | | | | | | | | , | - | | 88 | | | | | | | | | | | | | | l | TEMPER | ATURE ON I | RECEIPT Cº |
| Please uplo (http://cralabec LabDataManag the EOD by inc final PDF repo Copy final rep | STRUCTIONS OR Noted the "CRA EQUIS dupload.craworld.crawo | i 4-file EDD" to the Com/equis/default.as; .com email folder. ded to CRA website abDataManagemen lling@craworld.com | px) and/or se 2) Please in in the body t@CRAworld | nd it to the S dicate that you of the email l.com email | ou have up used to de folder, | oliver the | □s □s □s | HELL CONTI TATE REIMI DD NOT NE ECEIPT VEF | BURSEMEN EDED | T RATE APP | | | Gel Cleanup | E. TBA, DIPE, TAME, ETBE | | | | | | IB) | | | SIM) | | | | | | , | | Mary de la company de la compa |
| 1 | gement@CRAwork o Shell.Lab.Billing@ | | | | | J | | | | MIC Invel | ace water | 1 | | MTBE | | | 2 | | | 20 | | | 5.5 | | | | | | | | - |
| See Laboratory | PM for WA Dept. of | Ecology MTCA Meth | nod A cleanu | levels for | | WP (dr | inking v | ra (groui rater soui | rce), W (T | rip or Te | mp Blank) | Ί | is/x | G 8 | | | 905 | | SIM | 15 | | | 8(8) | | I | x | | | | | |
| minimum detec | ction limits. | SAMPLE ID | | | T | 1 | T | PRESE | RYATIVE | |] | ğ | ğ | 250 90at |)B) | (8011) | pac | 3082 | 3070 | 5 8 | | | lene | | 1 5 | ÷ Ep | | | | | |
| £AB USE | PROJECT NUMBER | DATE (MMDDYY) | SAMPLER • INITIALS | WELL IO | TIME | MATRIX | П | | | | NO, OF CONT, | NWTPH-Gx | NWTPH-Dx w/Silica | BTEX (8250E | (8260B) EDC (8260B) | EDC (8 | Total Lead (6020) | PCBs (8082) | PAHs (8070 | VOCs Full list (825UB) | | | Napthalenes (8270-SIM) | TPH-0 | имтрн-урн | NWTPH-EPH | | | | tainer PID Re Laboratory i | |
| ONLY | | 40 | LB | | 0952 | | HCL H | NO3 H2SC | 04 NONE | OTHER | 8 | _ | ×× | | <u>' </u> | += | ╁ | | _ | | 1-1 | _ | ╅ | × | ╁ | †= | | | | ···· | |
| GW - | 241809 - | 090413 | | MW-4 | 1 | | \hat{\chi} | | | | 8 | 1'x | 1 | - | | - | +- | \vdash | \dashv | _ | 1 | _ | + | 1 | 1 | 1 | Н | | | | |
| 6W - | 241809 - | 090413 | LB | MX+5 | 1046 | | | | | | 2 | | + | | | ╫ | + | \vdash | | | +-1 | | ╫ | ₩ | \vdash | - | \vdash | \vdash | | | |
| G~- | 241809 - | ०व०५७ | LB | MW-8 | 1132 | W6 | | | | ļ | | | X | | | | ┼ | \vdash | | | 1-1 | | - | +- | ┼ | | | - | | | |
| 6w- | 24180A - | 090413 | LB. | MW-11 | 1225 | W6 | X | _ | Y | ļ | 10 | × | XX | <u> </u> | - | | | | _ | - - | \perp | | | X | | | | $\vdash \vdash$ | | | |
| Gw- | 241809 - | 090413 | LB. | - MW-12 | 025 | WB | x | | λ | | 10 | × | X | × | | | | | | | | | × | × | _ | | | | | | |
| GN | 241809 - | 090413 | _ LB | M7+13 | 1309 | WES | 7 | | × | | 10 | × | X) | × | | | | | | | | | > | × | | | | | | | |
| | _ | | _ | | | | | | | | | Į | | | | | | | | | | | \perp | | | | | | | | |
| | | | | - | | | | | | | | T | П | T | | | | | | | | | | | 1 | | | | | | |
| - | <u> </u> | | | - | | ╂ | ╂╌╂╴ | | | | | ╫ | 1 | \dashv | | + | +- | \vdash | - | \dashv | 1 | | + | _ | \dagger | + | | | | | |
| - | | | _ | - | | | | | | | ļ | | 1_1 | | | | | | | _ _ | _ | | 4 | 4 | 1_ | - | | | | | |
| | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Refinquished by: (5 | Signature) | | | I | | Received | by: (Signal | ture) | | | | | <u> </u> | | | | | | | | | ام | ite: | | | | | Time: | | | |
| | The second second | - | | | | | | SHE | PPED | 14 | a FEL | SE | × | | | | | | | | | | C | 7/4 | 1/2 | 3 | | | | | • |
| Relinquished by: (5 | Signature) | | <u> </u> | | 1 | Received | by: (Signat | luro) | | <u>Y Z</u> _ | , , <u>, , , , , , , , , , , , , , , , , </u> | - | | | | | | | | | | 0. | ale; | | | | | Time. | | | *************************************** |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (5 | Signature) | | | | | Received | by: (Signa | ture) | | | | | | | | | | | ····· | | | D | ato: | | | | | Time; | | | |

INCIDENT#

92995017

ADDRESS

11700 NE 160TH ST

DATE:

9/4/13

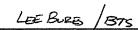
CITY & STATE

BOTHELL, WA

| | | | | | | Observ | rations L | pon Arri | val | | | | | | | | , | |
|--|-------------------------------|-------------------------|-------------|-------------|-------------------------|------------|----------------------------|-----------------------|------------|------------|----------------------------|-----------------------------|--------------------------|--------------------------|---|---|-------------------------|---|
| Well ID | Manwa | y Cover, | Type, C | ondition | & Size | Pair | ibeled / nted ierly* | Well (Grij Cond | oper) | Well L | .ock Cor | ndition | Sur | Pad / face lition | Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed | W | os of ell dition | Repair Date and PM Initials |
| Mw-3 | Standpipe | Plush | 6 | Р | Size (Inch) | 0 | N | 6) | R | 8 | R | NL | ණ | Р | | Y | (8) | |
| MW-H | Standpipe | Plusi | @ | Р | Size (inch) | 0 | N | Ō | R | 6 | R | NL | Q | Р | | Y | 1 | |
| MW-5 | Standpipe | Plush | 0 | P | Size (inch) | Ø | N | Ó | R | © | R | NL | (e) | Р | | Y | 6 | |
| MW-7 | Standplpe | Plugh | @ | Р | Size (Inch) | 05 | N | 6) | R | ම | R | NL | G | Ð | CRACKED APPON | Y | Ø | |
| Mw-8 | Standpipe | Flush | © | Р | Size (Inch) | 0 | N | 6 | R | © | R | NL | Œ | Ρ | | Y | ტ | |
| MW-10 | Standpipe | Plus | 6 | Р | Size (inch) | Ø | N | © | R | 0 | R | NL | Ø | Р | | Y | ூ | |
| MW-11 | Standpipe | Flush | න | Р | Size (Inch) | Ø | N | © | R | 6 | R | NL | 0 | P | | Y | ტ | |
| Mw-12 | Standpipe | Elis ji | © | Р | Size (inch) | Ø | N | 6 | R | 6 | R | NL. | ტ | Р | | Y | ල | |
| MW-B | Standpipe | Flush | <u>(6</u>) | Р | Size (Inch) | 0 | N | 6 | R | © | R | NL | 60 | Р | | Y | (N) | |
| | Standpipe | Flush | G | Р | Size (inch) | Υ | N | G | R | G | R | NL | G | Р | | Y | N | |
| | Standpipe | Flush | G | Р | Size (inch) | Υ | N | G | R | G | R | NL | G | P | | Y | N | |
| | | | | | тот | AL # CAF | S REPL | ACED = | 0 | | ٥ | = TOTA | L#OFLO | OCKS RE | EPLACED | | | |
| Condition of Abando | Soll Boring F oned Monitor | | G | Р | NA | II. | POOR, Bo | rings/Wel | l IDs or L | ocation De | scription | | | | | Y | N | |
| | n Compound oxes that app | | Cond | lition of E | nclosure | | ion of Are Enclosure | | Com | ipaund Se | curity | Emerg | ency Coni Visible | act Info | Cleaning / Repairs Recommended and Conducted | | tos of dition | Repair Date and PM Initials |
| NA Building Building w/ Fe Fenced Cor Traile | ng nce Comp. mpound | * | G | P | N/A | G | Р | N/A | G | Р | N/A | Y | N | N/A | | Y | N | |
| Number of Drums On-site | Does the | Label Rev of the Cor | | Labeled | Correctly ar Legible | id Writing | Or | um Condii | llon | Relat | Drums led to nmental | Party Street Branch Charles | s Located ress Interf | programme and the second | Detailed Explanation of Any Issues Resolved | ם | tos of rum dition | Date Drums Removed from Site and PM Initials |
| 3 | 8 | N | N/A | 0 | N | N/A | ල | р | NIA | 0 | N | 8 | N | N/A | | Y | ন্দ্র | |

G = Good (Acceptable)

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).



R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

^{• =} Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations, Version 2.4, March 2008

SOURCE RECORD BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D – 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

| 92996 | 017 | | Perry Pineda | |
|---------------|-----|-------------|----------------|-------|
| INCIDENT# | | | Shell Engineer | |
| 11700 | NE | 160TH ST | BOTHELL. | WA |
| street number | | street name | city ' | state |
| | | | | |

| WELL I.D. | GALS. | | WELL I.D. | GALS. |
|-----------------------------|------------|-------------|--|---------|
| MW-4 | 1 1.0 | | | |
| MW-5 | 1 0.5 | | | 1 |
| Mw-8 | 1 0.5 | | | / |
| MW-11 | 1 0.5 | | | / |
| Mw-12 | 1 1.0 | | | / |
| Mw-13 | 1 0.5 | | | / |
| | 1 | | | / |
| | | | | / |
| added equip. rinse water | 1 2.0 | | any other adjustments <u>/</u> | , |
| TOTAL GA RECOVERE | | | loaded onto BTS vehicle # | _ 88 |
| BTS event# | | time | da | ate |
| | 130904-48) | | <u> 1350</u> | 91418 |
| signature | | | <u> </u> | |
| ****** | | | * * * * * * * * * | * * * * |
| RECEIVED | AT | | time | date |
| BTS Kent | | | | |
| unloaded by | | | | |
| signature | | | ng ngà cop ngà dan dàn kao ana cop any ana nao ant ana ana nao nao nao nao nao | • |
| | | | | |

Page 1 of 1

| | | Job Clearance Form | | | |
|--|---|---|--|--|--|
| ngarhao ndhingrae ca che dan a loguar log webe in | taven tergahesisppppide sevagari dana agrapat e istoni s | inteligin) — 2) jakrindesker, minneskeror ade | eppelemental of the folding because on the | o potentina na May concern a land obligati sagri | ion . |
| Station# Station Address: | | Work Order I | lumbor: | Date: 9/4 | 113 |
| Station # Station Address: //700 | ONE 1GOTH ST BOTHELL Outcoder pureo in charge (pilet cross): LEE BURES | (A) | 130904- LBI Start Time: End | | of Times Travel Distances |
| BLATHETECH SERVICES | LEEBURES | (Temperal) | 0730 / | 360 | |
| Problem/Work Description: | | | | Return Calk | yos/ no |
| GAUGE PURE | E, + SAMPLE 9 | GROUND WATER W | ELS | Damage Claim: | yea/ no |
| | | | | | |
| | | uired(cheokandorisilioslankar | weg . | | |
| SAFETY VEST | | S & BOOTS | HEARING PROTECTION | RESPIRATOR | |
| У РКОТЕСТІУЕ СІДІТНІМЗ | | TY GLASSES/GOOGLES | WELDING PPE | OTHER. | |
| | Contractor to complete this section below if direums | | | Appropriate the contract of th | |
| TASK OF THE | | (Hazards not povered by JISA | | ow to reduce or a liminate reak : Inc. k | CHARLE TO DE LOUIS |
| GADGE | | <u>NA</u> | | N/A | |
| PURSE SAMPLE | | | | | |
| SAMPLE | | | | | |
| | | | | | |
| | | | | | |
| Work documentation or quire ments: | | m Riak / Higher Risk tasks - JBA required | Histor Rak - JSA required & a Work in confined spaces (e.g. tank, Interce | ppropriate check list completed (see below) | |
| KAMINER SELISSEL CIERWINE MRISE. | rks at heights: In all cases on open sites - on closed sites if no JSA preser nothing or excension related to underground tank / product lines | | Hot work with risk of product or vepor light | | <u>.</u> |
| ☐ Has | w littig | | LPG system degassing installation or mail | | |
| SIGN IN | This form must be completed for each job an Contractor representative name Signatura | d updated and re-signed if circumstance | s change of additional hazards iden SIGN OUT | | ntractoralgnature |
| Operating sites: to be signed by the Site Representative | | GENERAL | SAFETY CHECKS | | |
| Non-operating sites to be signed by Contractor Representative only | Les Ses | · Has the work ama boar | Account to the second s | | 70.3 |
| GENERAL SAFETY CHECKS | | remaining ladaton? | s of status of work including | | |
| • Heve all sits paraconal bean informed 7 | Siè réprésentative name Signature | | · · · · · · · · · · · · · · · · · · · | e greentative manus Si expectative from the following significant | nature |
| Has full delivery acroics been informed? | (here-clases suit per caj granda forma aten contra con. | • Al incidents, new incide | nia, una de altratione reported ? | | |
| is a tud delivery dus? Have isolation procedures been agreed - tock authag out? | lack Cooper Jak | on | 1 (| Juline ma | J. 17 |
| Are work grees combined of to protect workers, site stell & public? | | | | | |
| • Chan | | | | | and the state of t |
| PARTS - Ordered, Replaced and/or Disposed Of Endude model | and serial #a 4a appropriate) | t (| Miles | <u> </u> | |
| | | | t use the second | | 7, 16, 13 |
| | | | | | |
| | | | | | |
| | | | | | |
| The contractor formuch its authorized parragentation shall storn lesses | e and be soldy responsible for all lab clearance forms and the obligations | arising here under applicable to the work. | | | |

This form covers important reminders and is not intended to relieve the contractor from safety performing the work in compliance with all applicable laws and regulations.
The Site Representative may require the contractor to stop work lift appears that the contractor or any of its universare beling to comply with the requirements in the applicable lains of this form or other applicable safety requirements.

| DI AIKIE |
|----------------|
| BLAINE " |
| TECH SERVICES |
| LECTI SEMVICES |

Daily Tailgate Safety Meeting Checklist & Hazard Mitigation Form

TGSM

| Site Add | ress: | | | Date: , |
|-----------|--|--|--|------------|
| | 17700 NE KOTH ST. 1 | BOTHELL WA | | 9/4/13 |
| Check-li | n with site representative completed? | | | Yes N/A |
| | elivery scheduled for today? | | | Yes No N/A |
| Emerge | ncy pump cut-off switch located? | | | Yes N/A |
| First aid | kit located and confirmed ready-to-us | e? | | ∑ Yes |
| Fire exti | nguisher located and confirmed ready | -to-use? | *************************************** | Yes |
| Eye was | sh located and confirmed ready-to-use? | > | | Yes |
| | Emergency Services information loc | ated & reviewed? | | Yes |
| | Hospital map & route located and re | viewed? | | ∑ Yes |
| HASP | Special Hazard Notice section revie | wed? | | X Yes |
| HAGE | Site Status confirmed or amended, or | lated and initialed? | | Yes |
| | Emergency Response procedures r | eviewed with all work cre | ew members? | ∑ Yes |
| | Compliance Roster signed by all wo | | | ∑ Yes |
| | k has been performed to locate wells a | | The second secon | Yes |
| | ety Analysis (JSA) for each task locate | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | Yes = |
| <u> </u> | rea Plans reviewed for suitability and e | _ | | Yes N/A |
| | Control Plans reviewed for suitability g | ······································ | | Yes N/A |
| Stop Wo | ork Authority reviewed and understood | d by all work crew memb | ers? | Yes |
| id | eport unaddressed hazards and adverse co lentified or conditions change throughout th O NOT COMMENCE OR RESTART WORI | e workday. | - | |
| Time | Hazard or Adverse Condition | PM Initials | Hazard Contro | l Measure |
| | | | | |
| Site rep | resentative briefed on planned work a | ctivities and Work Area F | Plans? | Yes N/A |
| Job Cle | arance Form completed? | | | |
| | | | | Yes |
| Pre-Star | rt Call-In completed and approval to sta | art work received from P | roject Manager? | |

TEST EQUIPMENT CALIBRATION LOG

| PROJECT NAM | ME 1000 | NE 160 ^{TIT} ST. | BOTHELL, WA | PROJECT NUMBER 130904-LBI | | | | | | | |
|-------------------|---------------------|---------------------------|---------------------|---------------------------|----------------------------------|-------|----------|--|--|--|--|
| EQUIPMENT NAME | EQUIPMENT NUMBER | DATE/TIME OF TEST | STANDARDS USED | EQUIPMENT READING | CALIBRATED TO: OR WITHIN 10%: | ТЕМР. | INITIALS | | | | |
| VSI SEO | SEA #2 | 9/4/13 | PH4.0 7.0 100 | 4.13 7.14 10.10 | 4.01 V 7.00 V 1001 V | 15.5 | 48 | | | | |
| | | | COND 3900 | 3942 | 3901 | 15.0 | LB | | | | |
| | | | ORP 244 | Z.B.4 | 244,3 | 15.6 | 48 | | | | |
| | | | Do 160% | 89.4% | 100.1% | - | LB | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

WELL GAUGING DATA

| Project #_ | 131205- FRZ | ···· | Date | 12/ | 5/13 | Client | CRA- | |
|------------|-------------|------|-------|------|---------|--------|------|--|
| Site | 11700 | NE | 160+n | 5+-) | Bothell | | | |

| Well ID | Time | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or | Notes |
|---------|------|-----------------------|-----------------|--|---|---|----------------------|----------------------------|----------------------------|-------|
| MW-3 | 1320 | 4 | | | | | 23.30 | 34-60 | | |
| mw-4 | 1240 | Ч | | | | | 33-95 | 39-15 | | |
| Mw-5 | 1247 | 4 | | | | | 22.20 | 24.59 | | |
| MW-> | 1230 | 4 | | | | | 39-88 | 39-95 | | |
| mw-8 | 1255 | 2 | | | | | 13.50 | 24.64 | | |
| MW-10 | 1306 | 2 | | | | | DRY | 24.70 | | · |
| mw-11 | 1325 | 2 | | | | | 13-95 | 19-80 | | |
| MW-12 | 1235 | 2 | | | | | 50-20 | 59-4/ | | |
| MW-13 | 1329 | 2 | | | | | 13-06 | 24.60 | 4 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | · | | | | | | | | | |

LOW FLOW WELL MONITORING DATA SHEET

| | ······ | | T | | | | | |
|---------------------------|-------------|------------------------|-------------------------------|---------------------|-----------------------------|-------------|-------------------------------|----------------------|
| Project #: | 131 | 205-PK. | 2 | Client: | CRA | | | |
| Sampler: | J.z. | | | Gauging D | ate: 14 | 5/13 | | |
| Well I.D.: | ייכיו | u-3 | | Well Diam | eter (in.): | 2 3 | Ø 6 8 | |
| Total We | ll Depth (f | t.): 34 | 1.60 | Depth to W | /ater (ft.) | : 23. | 30 | |
| Depth to | Free Produ | ıct: | | Thickness | of Free Pr | oduct (fe | et): | |
| Reference | | €V2 | Grade | Flow Cell | Туре: | 452556 | | |
| Purge Metho Sampling M | | 2" Grundf Dedicated | - | | Peristaltic P New Tubing | • | Bladder Pump Other | |
| Start Purge | Time: 1410 | war er removed | Flow Rate: | 100m | efnin | | Pump Depth: | 26.5 |
| Time | Temp. | pН | Cond. (mS/cm or (S/7)m) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or nace) | Depth to Water (ft.) |
| 1416 | 11.90 | 6-95 | 611 | 15 | 1-15 | 1-0 | 600 | 23.3) |
| 1419 | 11-91 | 6-91 | 605 | 14 | 1.01 | 5-7 | 900 | 27.38 |
| 1422 | 11.91 | 6-91 | 609 | 14 | 1-02 | 10-9 | 1200 | 23.38 |
| 1425 | 11-91 | 6.93 | 609 | 13 | 1.02 | 11-5 | 1500 | 23.39 |
| 1428 | 11-90 | 6-93 | 613 | 13 | 1-03 | 9-7 | 1800 | 23,37 |
| | | | | | | ; | | |
| | ļ | | | | | | | |
| | | | | | | | | |
| | | | | | | | · · | |
| | | | | | | <u> </u> | | |
| | | | | | | | | |
| | | | | | | <u> </u> | | |
| Did well | dewater? | Yes | <u> </u> | | Amount | actually o | evacuated: /-8 | <u> </u> |
| Sampling | Time: | | 1429 | | Sampling | g Date: | 12/5/13 | 14-Williams |
| Sample I. | D.: 6v | J-241809. | -1205#3-pn-1 | nw-3 | Laborato | ry: 1 | T-A - | |
| Analyzed | for: | TEHIG | виях мте | BE TAPD | • | Other: 50 | ec-0- C · | |
| Equipme | nt Blank I. | D.: | @ Time | | Duplicate | € I.D.: | | |

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

| | | DOW X | | LILI IVI OIVI | | | | |
|---------------------------|------------------|------------------------|--------------------|---------------------|-----------------------------|--|----------------------------|----------------------|
| Project#: | 1312 | 05-puz | | Client: | CPU | 4 | | |
| Sampler: | ., | RK | | Gauging D | ate: 12, | 105/13 | | |
| Well I.D.: | · | MW-1 | 3 | Well Diam | | h | 4 6 8 | |
| Total We | ll Depth (f | | | Depth to W | /ater (ft.) | .)3- | 06 | |
| | Free Produ | | | Thickness | of Free Pr | oduct (fe | et): | |
| Reference | | ρŶγC | Grade | Flow Cell | | 445 3 | | |
| Purge Metho Sampling M | | 2" Grundf Dedicated | | - | Peristaltic P New Tubing | | Bladder Pump Other_ | |
| Start Purge | Time: <u>133</u> | 0 | Flow Rate: _ | joom Un | лīн | ************************************** | Pump Depth: | 16.5' |
| Time | Temp. | pН | Cond. (mS/cm or | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Water Removed (gals. or 👊) | Depth to Water (ft.) |
| 1336 | 12-01 | 6-67 | 636 | 15 | 1-25 | 7-2 | 600 | 13.12 |
| 1339 | 12.05 | 6-60 | 634 | 14 | 1-20 | 5.1 | 900 | 13.15 |
| 1342 | 12-07 | 6-61 | 640 | 13 | 1.15 | 3-7 | 1200 | 13.19 |
| 1345 | 12-08 | 6-61 | 642 | 13 | 1-16 | 2.8 | 1500. | 13-22 |
| 1348 | 12.08 | 6-63 | 641 | 10 | 1.17 | 3./ | 1800 | 13.24 |
| | - | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 4 | | | | | | | | |
| | | | | | | | | |
| · | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| Did well | dewater? | Yes | No. | | Amount | actually o | evacuated: /- | 84 |
| Sampling | ; Time: | 137 | 19 | | Sampling | g Date: | 12/5/13 | |
| Sample I | .D.: Gw | 1-241809 | -120513-R | CK-MW-13 | Laborato | ry: T-1 | <u> </u> | |
| Analyzed | | | ван мт | _ | | | éec.o.c. | |
| Equipme | nt Blank I. | | @ Time | <u> </u> | Duplicate | <u> </u> | | |

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

| | L | AB (LOCATION |) | | | | | | (III) | 9 | , | Shel | li Oil | Pr | od | uc | ts (| Cha | ain | 01 | Cı | ısto | ody | / R | ecc | rd | | | | | | | |
|-------------------------|---|---------------------------------------|----------------------|---|-----------------|--------------|--------------|----------|-----------|--------------------|-----------|--------------|-----------|------------------|-------------|--------------------|-----------------------------|-------------|------------|-------------------|-------------|---|---------|--------|------|----------|------------------------|----------|--------------|----------------|-----|---------|---|
| CALSCIE! | | • | | 100000000000000000000000000000000000000 | | Please | Check | And | ropri | ate:B | | | | | | | | | | | | | | IN | CIDE | NT # | (EI | IV S | ER | VICE | ES) | Пс | HECK IF NO INCIDENT # APPLIES |
| SPL Hou | ston (_ | |) | ENV. SE | | 100000 | | | IVA RETA | | | SHELL. | RETAIL | (T''' | | | lcCle | | | | | | | g | 2 | 9 | 9 | 5 | 0 | 1 | 7 | D | ATE: 12/8/13 |
| XENCO (| L | | | □ мотгу/ | | ĺ | | | SULTANT | | i | LUBES | 7 | F | all | | | | 0 | | | | | | | | SAF | | | | | | , |
| TEST AN | HERLICA | <u> </u> |) | | | ا 1 | La. | | | | | | | | T | T T | | 0349 | ::::: | in in | T | <u>:::::::</u> | Ť | 1200 | Ť | • | | 2000 | 5 | 1 | 1 | 1 P/ | AGE: of |
| OTHER | | | | SHELL F | IPELINE | <u> </u> | | - | OTHER _ | | | | | 4, | - ADD | | Street ar | A City | | | | | | State | | 1 | | 0 | 3 | 3 | | | |
| SAMPLING COMP | | | | | | | | LOG | COOF: | | | | | | | • | 160 | | 3oti | nell | | | | W | 4 | | NA | | | | | | |
| Blaine Tec | n Se | rvices | | | | | | | | | | | | EOF | DELMER | ABLE TO | (Name, Co | ompany, O | fice Loc | sion): | | 1. | ENO. | | | E-MAL: | | | | | | | CONSULTANT PROJECT NO.: |
| | | Avenue, Carson, | CA 90746 | | | | | | | | | | | -l _{cr} | A. Se | eattle, | WA | | | | | 425 | 5-563 | -6500 | | Shell | US-L | abD | ataM | anag | emo | nt@C | RAworld.com / 34205-Phie |
| Lorin King | | HICEOPY OF PUP NEPON 10): | | | | | | | | | | | | 820 | PLERN | WE(S) (| res): | | | | , | | | | | | | | | | E.A | uH DSE | ONLY |
| TELEPHONE: | | | FAX: | | E-MAL: | | (bis | | dainate | ech.cor | n | | | 7 | | 74 | ctch | DA | up | ٦٧ | | | | | | | | | | | | | |
| , , , | (310) 885-4455 x 108 (310) 637-5802 (310) 637-5802 | | | | | (171) | нцер | | | | | | + | | | | | | | | | | REC | UEST | ED / | INAI | YSI | S | | | - | | |
| STANDAR | | | | □ 2 DAY | s C | 24 HOURS | | | | RESULT | is needei | D ON WEEK | END | _ | | , , , , | | , | | | | | | T | 7 | | | | | т— | т | | 1 |
| □ LA · RW | QCB R | EPORT FORMAT | UST AGENO | Y: | | | | | | | | | | _ | | | 86 | | | | | | | | | | | | | | | | TEMPERATURE ON RECEIPT C1 |
| | | TRUCTIONS OR I | | | | • | | | | | | E APPLIES | | | | | , ETB | | 1 | | | | | | | | | | | | | | |
| 1) Please | uploa | d the "CRA EQuit upload.craworld.c | 6 4-file EDO" to the | CRA Websit | and it to the S | Shallalis. | | | | TE REIMB NOT NE | | IT RATE AP | PLIES | | | | 3 | | | | ĺ | | | | | | | | | | | | (|
| i annataMa | anane | ment@CRAworld | com email folder. | . 2) Please Ir | idicate that y | ou have u | oloaded | | | | | N REQUEST | ED | | | | eŭ aŭ | | | | | 1 | | | | | | | | | | | |
| the FOR hy | e EDD by Including "EDD Uploaded to CRA website" in the body of all PDF report to the Shell-US-LabDataManagement@CRAworld.co | | | | | | eliver the | 1 | | | | | | | Gel Cleanup | | TBA, DIPE, TAME, | | | | | | 1 | | | | | | | | | | |
| 1 | opy final report to Shell.Lab.Billing@craworld.com, Shell.results@ | | | | | | | | | | | | | | ဗီ | | BA, | | | | | | | | 1 | | _ | | | | | | |
| Copy final | repo | rt to Shell.Lab.Bl ement@CRAworl | lling@craworld.c | om, Shell.resi | ilts@crawor | id.com, a | nd Shell- | -US- | | | | | | | 8 | 1 1 | m H | | | | | ĺ | ì | | | | NS. | | | | | | |
| Email lovoi | ce to | Shell.Lab.Billing@ | Deraworld.com | | | | Matrix | Code | s - WG | (aroun | dwater). | , WS (sur | face wate | 7, | w/Silica | | MTBE, | | | 8 | | 828 | | | | | 3270 | | | | | | |
| See Labora minimum d | tory f | M for WA Dept. of | Ecology MTCA Me | thod A cleanu | p levels for | | WP (d | rinki | ng wate | er soun | ce), W (1 | Trip or Te | mp Blank |) | ×/8 | (8) | tes, | 6 | | (60) | ล | | ١, | | | | es (t | | Æ | 표 | | | |
| | electi | OH HILLS. | SAMPLE ID | | | Ι | × | L | | PRESE | RVATIVE | |] | NWTPH-Gx | NWTPH-Dx | BTEX (8260B) | 5 Oxygenates, fi (8260B) | EDC (8260B) | EDC (8011) | Total Lead (6020) | PCBs (8082) | PAHS (8070 SIM) VOCs Full list (8260B) | | | 1 | | Napthalenes (8270-SIM) | | NWTPH-VPH | NWTPH-EPH | | | |
| EAB | T | PROJECT NUMBER | DATE | SAMPLER | WELL ID | TIME | MATRIX | | | | | | NO. OF | Ę | E | X H | 2xyc | ပို | S | tai [| Sã. | 3 5 | | | | | apth | TPHO | Ę | I K | | | Container PID Readings or Laboratory Notes |
| EAB EISE DALY | | PHODEOT NOMBER | (MMDDYY) | INTIALS | | | | нс | L HNO | HESO | 4 NONE | _ | | <u> </u> | Įź | <u> </u> | S 80 | ш | w | 2 | <u>~</u> | <u> </u> | - 1- | - | ┼ | - | Z | 1 | Z | Z | ╫ | + | |
| GW | ,] | 241809 - | 120513 | _ per | WM- 3 | 1429 | WG | × | | 1 | 1 | 7 | 8 | 1 | <u> ×</u> | 14 | | | | | _ | | \perp | | _ | | | ᅩ | | ـ | + | ┿ | |
| | | 241809 - | 120583 | - pre | - Aw-13 | 1349 | V | X | | | × | | 10 | ١, | ·Ιχ | x | | | | | 1 | | | | | | У | X | L | | _ | \perp | |
| 5,~ | ╗ | 24/301 - | 17000 | - 100 | 70,000,0 | 1:211 | ├ | + | 7- | T | 1 | 1 | <u> </u> | T | 1 | | | | | | | | T | | | | | | | | | | |
| | | - | | | | | ┼ | ╫ | + | + | - | ╁ | ├ | | + | + | | | | | | $\neg \vdash$ | 十 | \top | 1 | | | m | \Box | | | T | |
| | | | | | | | ļ | _ | | ┦ | | | | + | +- | \vdash | | - | | | | | + | | +- | \vdash | | ╫ | | + | + | +- | |
| | | - | | | | | | 丄 | | | | | <u> </u> | _ | 4 | 1 | | _ | | | | | - | - - | ┼ | ├ | ļ | | ├ | ┼ | +- | +- | |
| | \neg | | | | _ | | | | | 1 | | | | | | | | | | | | | \bot | \bot | | _ | | <u> </u> | <u> </u> | <u> </u> | _ | _ | |
| | 十 | | | | 1 | 1 | | \top | 1 | 1 | | | | Т | | | | | | | | | | | | | | | | | | | |
| _ | | | <u> </u> | | | | | ╁ | | +- | + | | ┪ | + | + | T | | | | | | | | | 1 | | | | Π | Т | Т | T | (|
| | _ | | | | | <u> </u> | | \perp | | | | | | 4 | 1 | <u> </u> | ļ | | | | | | - | | - | - | | ├- | ├ | ┼ | +- | +- | |
| | \neg | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | |
| | - | | | | 1 | | + | + | +- | + | _ | + | +- | \top | + | T | | t^{-} | <u> </u> | | \neg | 十 | 1 | 1 | 1 | Π | Π | Π | Γ | T | Т | T | 1. |
| | | _ | , | | <u></u> | <u> </u> | | 丄 | | | <u></u> | <u></u> | <u></u> | | | | L | ۲. | <u> </u> | | | L_ | | | 1 | Date | <u> </u> | <u></u> | <u></u> | 1 | | Tim | 1 T 0 : |
| Relinquished t | by: (Sig | nature) | | | | | Received | s by: (S | (enuture) | | ., | | | | | | | | | | | | | | | | - 1- | 1 | | | | 1 | |
| | | P. | | | | 1 | | | | | 5/17 | red. | ٨٠٦ | | F | de | ×. | - | : | | | | | | | P. | 2/5 | ('3 | | | | + | те: |
| Relinquished t | by: (Sig | nature) | | | | T | Received | d by: (9 | (erutengi | | | | | | | | | | | | | | | | | Julie | | | | | | '" | |
| 1 | | | | | | | ļ. | | | | | | | | | | | | | | | | | | | <u> </u> | | , | | | | 1 | roe: |
| Retinguished t | by: (Sig | nature) | | | | 1 | Receive | d by: (9 | ignature) | | | | | | | | | | | | | | | | | Date | | | | | | '" | ; ma ; |

| ENVIRONMENTAL | 18/01 1 | DEMEDIATION | COMPOUND | AND SITE | INSPECTION F | ORM |
|---------------|---------|---------------|-----------|----------|--------------|-------|
| ENVIRONMENTAL | . WELL | . KEMEDIA HUN | CUMPUUND, | AND SHE | HOLECHON | Citim |

Y

Y

Y

Y (M

N,

D

Ø. Υ

| | | | | | | EMAILC | MAINEN | WE AACE | L, IXLIM | | | 00,10, | ,,,,,, | | | | | |
|-----------|-----------|---------|--|----------|-------------|---------------|---|---------|-------------------------------|-------------------|---------|-----------|---------------------|--|--|---|-----|--------|
| INCIDENT# | g. | 29950 | ワ | | | | | | | | | ADDRES | SS | | 1700 NE 180th St. | | | |
| DATE: | | 12/5 | /13 | | | | | | | | | CITY & S | STATE | ······································ | Bothell WA | | | |
| WellID | Manwa | y Cover | Type, C | ondition | & Size | Well L Pai | vations (abeled / nted perly: | (Gri | vat Cap oper) lition | CONTRACTOR OF THE | ock Cor | idition ; | Well Sur Cond | Pad / face | Note Repairs Made Detailed Explanation of Maintenance Recomme and Performed | | | and PM |
| WM-3 | Standplpe | Fligh | 9 | Р | Size (inch) | 0 | N | Ø | R | Œ | R | NL | © | Р | | Y | Ø5 | |
| איייייין | Standpipe | Flush | | Р | Size (inch) | 0 | N | 6 | R | බ | R | NL | Ø | P | , | Y | 0 | |
| mn-5 | Standpipe | Flush | 6 | р | Size (inch) | Ø | N | @ | R | 6 | R | NL | @ | Р | | Υ | 0 | |
| mw-> | Standpipe | Flush | 6 | Р | Size (Inch) | (Y) | N | 6 | R | 0 | R | NL | G | 0 | Aron Cracked | Y | 0 | |
| MW-8 | Standpipe | Flush | 6 | Р | Size (Inch) | (D) | N | 0 | R | 0 | R | NL | ଜ | Р | | Y | (1) | |
| MH-10 | Standplpe | Flush | 6 | Р | Size (inch) | 6) | N | 0 | R | © | R | NL | Ø | P | | Y | (a) | |

R

R

R

R

R

6

6

G

G

NL

NL

NL

NL

NL.

N

N

N

N

N

8

Y

6

(G)

G

G

в

B

6

ම

鯯

G

G

Р

P

#19sh

Flush

Flysh

Flush

Flush

Size (inch)

Size (inch)

Size (inch)

Size (inch)

Size (inch)

R

R

R

R

R

6

0

G

G

TOTAL # OF LOCKS REPLACED 0 TOTAL # CAPS REPLACED = Condition of Soil Boring Patches of Soil Boring Patches of Soil Boring Patches of Soil Boring Wells 0 Y If POOR, Borings/Well/IDs or Location Description Cleaning // Repairs Recommended and Conducted Condition of Englosure Dondition of Area inside Enclosuro Remediation Compound Type Condition (Grieck boxes that apply) >< NA Building ANA (AIR) Y (V)A (9) Υ Ν G Р G P G Ρ Building w/ Fence Comp. Fenced Compound Trailer Ontailed Explanation or/Any Issues Resolved 1/ Photos of: Data Drum
Prum
Removed From
Site
Condition: and Principles Number of Does the Label Reveal the Labeled Correctly and Writing Drums On Sile Source of the Contents 1, Legible Legible ADram Condition Confirm Drums Related to Drums Located to Min Business Interference -Environmental N/A Y Ν N Υ N/A G N/A N/A N

G = Good (Acceptable)

R = Replaced

P = Poor (needs attention) NL = No Lock Required

Standplpe

Standpipe

Standpipe

Standpipe

Standplpe

MW-10

MW-11

MW-12

mw-13

Note: All repairs other than locks and grippers require Shell PM approval prior to repair,

= Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations. Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Krong Dhugar

Print or type Name of Field Personnel & Consultant Company

SOURCE RECORD BILL OF LADING

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72ND Ave South, Suite D – 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

| 92995017 | | | | Perry Pineda | |
|---------------|----|-----------|-----|---------------|-------|
| INCIDENT# | | | | Shell Enginee | r . |
| 11700 | NE | 160th | 6+- | Bothell | WA |
| street number | | street na | ame | city | state |
| | | | | | |

| WELL I.D. GALS. | A DESCRIPTION OF THE PERSON OF | WELL I.D. | GALS. | |
|----------------------------|--|--|--|-------------|
| | | | 1 | |
| mw-3 10.5 | | | | |
| WM-13 10.2 | | | | ****** |
| | | | | |
| | | | <u> </u> | |
| | | | 1 | |
| | | | 1 | |
| | | | | |
| | | | | |
| <u> </u> | | | | |
| added equip. rinse water// | | any other adjustments | | |
| TOTAL GALS. 2 | | loaded onto BTS vehicle: | # <u>4P</u> | |
| BTS event# | time | | date | |
| | / | 530 | 12/5 | 411 |
| signature | | | | • |
| ***** | *** | ***** | * * * * * | |
| RECEIVED AT | | time | e date | |
| BTS Kent | | | ' | |
| unloaded by | | | | |
| signature | n ps (no yes not (no co me no | | | |
| | | MATERIAL PROPERTY OF THE PROPE | Total Maria Company of the Company | |

Page 1 of 1

Revision No.: 1.0

| | | | | Job Clearan | ce/Form | | | | | TTT 10.2204 | SEE STORY CO. |
|--|----------------------------------|---|----------------------------------|-------------------------------------|--------------------------|----------------------------------|--|--|-------------------------|----------------------------------|---------------------|
| NTRÁCTOR HISTORICTORIS | PROW TO START OF WORK IL BA | rew form, check appropriate boxes | read and a ha if the boat | om of this form 2 lettern | | | the loo to be parior | Ded and bosemananals. | Day: | Julyan Nace | 110162.63.54 |
| 92995017 | jajion Addiese; 11700 NE | /Gorra St., | Bothell | [HATE OF NOT BEE: | Work Ords | 130 | Sian Time: | End Time: | Limor | 1041164 | Stard Diames; |
| residor Company Norsa BT 5 roblem Work Description: | | piece | puyd | | (Student) | | nos | 1435 | Return Cal | L yes/1 | |
| Opieta Alot K negatifitza | • | <u></u> | round would | ter Mon | 10 Je 0,00 | | | | Dama ge C | • | |
| | | | | • | | | | | | nabertycza ychodo | or named a mover or |
| *************************************** | | e frankrijsking projekting (| responses PPE | REQUIRED (CHECK AND HOES & BOOTS | YOR FILL BLANK | SPACE) 1-2 MARINO F | PROTECTION | ********** | RESPIRATOR | 1351512421311-04-0 | GE, PERIES SONA |
| SAFETYVEST | , w | HARDHAT AGLOVES | | AFETY GLASSES/GOOD | LES | WELDING | | | OTHER | | |
| | <i>1</i> . | Contributions | 建设设置的基本企业的企业的企业 | masanatonese (se | C*********************** | And the Principles of the second | The state of the s | A & How to reduce to | e e l'entre de la chafe | Iordada DAF ta I | a Wata SASAS |
| 0,100,1117,175,174 | OCCUPATASK STOP45774 | \$6794UC131US74U2 | i\$4+66}43PP | अकृष्टि Hazarda not covê | red by JSA 1944 | "身体的技术 " | distribution of | AS- How to remoce o | of estimate they- | Hemot Levin | |
| | | | • | | | | _ | | | | |
| | Pures | | | NA | | | _ | | | | |
| | Sangle | | | | | , | _ | | | | |
| | | Iones Mikem ISI nap | lad . | Ne dem Make Heber Hala | beskipes ASA - ede | н | later Pink - 15A map | ired & appropriate checkil | lat completed (see be) | 0*) | |
| Work doarne at the doarne at Higher / Medium t | who D Work | s athelights: In all cases on open size | on closed stask no JSA | | | U Workhood | ined speces (e.g. turi A dek d product or v : | , francepter or deep man) new institute | tole entry) | | |
| | ☐ Tend | ising or excavation related to undergo v lithing | | | | [] LPG gars | degesting installatio | n or maintenance | | ionistainin liitaisi | |
| er. | | y taing Contractor representative name | Completed Oreschill Signature | ob and updated and re- | ened Colcums | nceschange of | SIGNOU | T . | | Contractor algor | ilur y |
| Operating steer to be eighted by | ha Sia Aspressione | N 1/1 | 20 10.1 | Canac | i | BAL SAFETY CHEC | | | | h- | |
| lon operating all as to be signs only GENEPAL SAFEI | od by Contractor Representative | Jackroup | · | <u>cooper</u> | | स्त्रसंक की स्टेस्ट्रेस की प्राय | | | | | |
| unital barana we is earl | / / / \L | S's representative name | Signatura | name of the constitution | . We approduse positi | | and constants and l | Site representative in | | Signature record and a second | |
| Has hid delivery earlies bos is a hid delivery dust | n informati | birre discus sed tob chiaratch form s | Woodsader # 15 533 | | · Cr- | 100419,01324616 | | 2. | | 7 | 11. |
| · Hare isolation procedures be | | FICKS DIMPOR | TY | | <u> </u> | | | Janes | 1081205 | d in | 7 NOW |
| Are work mean combined of the partiest Oxer | p product workers site sout & | | | | | | | | | | |
| | nd or Cisposed Ol Endude model e | nd secial es as appropriab) | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | and be solely responsible for all jobs | lurance forms and the old | igaloms arising free under act | ficable to he work. | | ·/• | | | | |

This from covers important remindes and is not be unded to relieve the contracts from early performing the work in compliance with all approximates and regulation.

The Sia Representative may require the contracts to stop workfull appears that he contracts or any ellip workers are billing to comply with he requirements in the approximate of this former other approximates.

| BLAINE TECH SERV | Daily Tailga | ite Safety Meet zard Mitigation | ing Checklist & Form | TGSM | | | | | | |
|---------------------|---|------------------------------------|----------------------------------|-----------------------|--|--|--|--|--|--|
| Site Addre | ess: | | | Date: | | | | | | |
| 011071007 | 11700 MF 160th St-) | 8-+1-01 | | 12/5/13 | | | | | | |
| Check-In | with site representative completed? | | | Yes N/A | | | | | | |
| | livery scheduled for today? | | | Yes No No N/A | | | | | | |
| | ncy pump cut-off switch located? | | | Yes N/A | | | | | | |
| | kit located and confirmed ready-to-use? |) | | Yes | | | | | | |
| | nguisher located and confirmed ready-t | | | <u></u> Yes | | | | | | |
| | h located and confirmed ready-to-use? | | | Yes Yes | | | | | | |
| | Emergency Services information loca | ted & reviewed? | | / Yes | | | | | | |
| | Hospital map & route located and revi | | | Yes Yes | | | | | | |
| | Special Hazard Notice section review | Yes Yes | | | | | | | | |
| HASP | Site Status confirmed or amended, da | ted and initialed? | | 2 Yes | | | | | | |
| | Emergency Response procedures re- | viewed with all wo | rk crew members? | de Yes | | | | | | |
| | Compliance Roster signed by all work | crew members? | | v Yes | | | | | | |
| Site wall | k has been performed to locate wells an | d identify additions | al hazards? | w Yes | | | | | | |
| Job Safe | ety Analysis (JSA) for each task located | l & reviewed by al | work crew members? | Yes | | | | | | |
| Work Ar | ea Plans reviewed for suitability and eff | ectiveness given o | current site conditions? | Yes N/A | | | | | | |
| Traffic C | Control Plans reviewed for suitability giv | en current road, tr | affic & weather conditions? | Yes N/A | | | | | | |
| Stop Wo | Stop Work Authority reviewed and understood by all work crew members? Yes | | | | | | | | | |
| • R | rocedures and/or JSA's or impede the safe a control Plan(s). Leport unaddressed hazards and adverse corrections or conditions change throughout the CONOT COMMENCE OR RESTART WORK | nditions to the Project workday. | t Manager during Pre-Start Call- | in and as hazards are | | | | | | |
| • 0 | | | - Canada and Anagasian Mada and | | | | | | | |
| Time | Hazard or Adverse Condition | PM Initials | Hazard Con | trol Measure | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Site rep | presentative briefed on planned work ac | tivities and Work | Area Plans? | Yes N/A | | | | | | |
| | earance Form completed? | | | Yes | | | | | | |
| | art Call-in completed and approval to sta | art work received f | rom Project Manager? | X Yes | | | | | | |
| Printed | Name | Signature | | Time | | | | | | |
| | Breez Dupor | 7. | | Isis | | | | | | |

TEST EQUIPMENT CALIBRATION LOG

| PROJECT NAN | PROJECT NAME 1/700 NE 160th St., BO HAS PROJECT NUMBER 1/31205-FR Z | | | | | | | | | |
|-------------------|---|----------------------|-----------------------|--------------------------------|----------------------------------|----------|----------|--|--|--|
| EQUIPMENT NAME | EQUIPMENT NUMBER | DATE/TIME OF TEST | STANDARDS | EQUIPMENT READING | CALIBRATED TO: OR WITHIN/10%: | TEMP. | INITIALS | | | |
| 445-650 | \$75-0 | 12/5/13/7/325 | PH 7 74 4 PH 10 | 7H 7.01 7H 4.03 PH 10-00 | V/ | 10.11.00 | TH | | | |
| , | | | conductivity 3900ca | 391926 | | 10-1000 | pu | | | |
| - | | | 250.5my | 2523m1 | | 10.1000 | ри | | | |
| 1 | 4 | 4 | p.oy. | 105.3/. | V | 10.13 °C | T- | | | |
| | | | | | | | | | | |
| | | | · | | | | | | | |
| | | | | | | | | | | |
| | | | | · | | | | | | |
| | | | | · | | | , | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Appendix B

Laboratory Analytical Reports





THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-34640-1

TestAmerica Sample Delivery Group: SAP 120531 / 241809 Client Project/Site: 11700 NE 160th Bothell WA

For:

Conestoga-Rovers & Associates, Inc. 20818 44th Ave W Suite 190 Lynnwood, Washington 98036

Attn: Christina McClelland

Um/for tiguod

Authorized for release by: 9/16/2013 12:30:46 PM

Ryan Fitzwater, Senior Project Manager ryan.fitzwater@testamericainc.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Table of Contents

| Cover Page | 1 |
|-----------------------|----|
| Table of Contents | 2 |
| Sample Summary | 3 |
| Case Narrative | 4 |
| Definitions | 6 |
| Client Sample Results | 7 |
| QC Sample Results | 13 |
| QC Association | 19 |
| Chronicle | 21 |
| Method Summary | 23 |
| Certification Summary | 24 |
| Chain of Custody | 25 |
| Receipt Checklists | 28 |

4

6

8

9

1 U

12

Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|--------------------------|--------|----------------|----------------|
| 490-34640-1 | GW-241809-90413-LB-MW-4 | Water | 09/04/13 09:52 | 09/05/13 08:30 |
| 490-34640-2 | GW-241809-90413-LB-MW-5 | Water | 09/04/13 10:46 | 09/05/13 08:30 |
| 490-34640-3 | GW-241809-90413-LB-MW-8 | Water | 09/04/13 11:32 | 09/05/13 08:30 |
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Water | 09/04/13 12:25 | 09/05/13 08:30 |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Water | 09/04/13 09:05 | 09/05/13 08:30 |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Water | 09/04/13 13:09 | 09/05/13 08:30 |

P

4

5

6

0

9

10

11

12

Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Job ID: 490-34640-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-34640-1

Comments

No additional comments.

Receipt

The samples were received on 9/5/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 4.6° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside the upper control limit: GW-241794-090313-LB-MW-2A (490-34641-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Job ID: 490-34640-2

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-34640-2

Comments

No additional comments.

Receipt

The samples were received on 9/5/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.5° C and 4.6° C.

GC/MS Semi VOA

Method(s) 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 105402.

Method(s) 8270C SIM: Surrogate recovery for the following sample(s) was outside control limits: GW-241809-90413-LB-MW-13 (490-34640-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC VOA

Method(s) NWTPH-Gx: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 106079. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) NWTPH-Gx: Surrogate recovery for the following sample(s) was outside control limits: GW-241809-90413-LB-MW-13 (490-34640-6)490-34640-b-6. Evidence of matrix interference is present; confirmed by reanalysis.

Method(s) NWTPH-Gx: Surrogate recovery for the following sample(s) was outside the upper control limit: (MB 490-106079/7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

4

_

8

11

Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

- 1

Job ID: 490-34640-2 (Continued)

Laboratory: TestAmerica Nashville (Continued)

GC Semi VOA

Method(s) NWTPH-Dx: The following sample(s) contained single peaks contamination which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: (490-34640-1 DU), GW-241809-90413-LB-MW-4 (490-34640-1).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern for analyte C10-C24 that most closely resembles a Gasoline product used by the laboratory for quantitative purposes: GW-241809-90413-LB-MW-13 (490-34640-6).

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 105402.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

4

O

7

8

9

44

40

11:

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

Minimum Level (Dioxin)

Practical Quantitation Limit

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Not detected at the reporting limit (or MDL or EDL if shown)

Relative Percent Difference, a measure of the relative difference between two points

Reporting Limit or Requested Limit (Radiochemistry)

Not Calculated

Quality Control

Relative error ratio

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

4

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|-------------------------------------|
| X | Surrogate is outside control limits |

GC VOA

| Qualifier | Qualifier Description |
|-----------|-------------------------------------|
| X | Surrogate is outside control limits |

_

Glossary

ML

NC

ND

PQL

QC

RER

RPD

TEF TEQ

RL

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |

11:

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-34640-1

Matrix: Water

| Client | Sample | D: GW | -241809-904 | 113-LB-MW-4 |
|--------|--------|-------|-------------|-------------|
| | | | | |

Date Collected: 09/04/13 09:52 Date Received: 09/05/13 08:30

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|----------------------|------------|---------------------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 1.00 | | ug/L | | | 09/13/13 04:01 | 1 |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 09/13/13 04:01 | 1 |
| Xylenes, Total | ND | | 2.00 | | ug/L | | | 09/13/13 04:01 | 1 |
| Toluene | ND | | 1.00 | | ug/L | | | 09/13/13 04:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | - | | 09/13/13 04:01 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 130 | | | | | 09/13/13 04:01 | 1 |
| Toluene-d8 (Surr) | 92 | | 70 - 130 | | | | | 09/13/13 04:01 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 70 - 130 | | | | | 09/13/13 04:01 | 1 |
| Method: NWTPH-Gx - Northwe | est - Volatile Petro | oleum Prod | ucts (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C6-C12 | ND | | 100 | | ug/L | | | 09/10/13 22:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| a,a,a-Trifluorotoluene | 68 | - | 50 - 150 | | | - | | 09/10/13 22:09 | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| C10-C24 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 17:35 | 1 |
| C24-C40 | 213 | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 17:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 79 | | 50 - 150 | | | | 09/07/13 14:43 | 09/11/13 17:35 | 1 |

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-34640-2

Matrix: Water

Client Sample ID: GW-241809-90413-LB-MW-5

Date Collected: 09/04/13 10:46 Date Received: 09/05/13 08:30

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|----------------------|------------|-----------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 1.00 | | ug/L | | | 09/13/13 04:28 | 1 |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 09/13/13 04:28 | 1 |
| Xylenes, Total | ND | | 2.00 | | ug/L | | | 09/13/13 04:28 | 1 |
| Toluene | ND | | 1.00 | | ug/L | | | 09/13/13 04:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | - | | 09/13/13 04:28 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 70 - 130 | | | | | 09/13/13 04:28 | 1 |
| Toluene-d8 (Surr) | 93 | | 70 - 130 | | | | | 09/13/13 04:28 | 1 |
| Dibromofluoromethane (Surr) | 111 | | 70 - 130 | | | | | 09/13/13 04:28 | 1 |
| Method: NWTPH-Gx - Northwe | est - Volatile Petro | oleum Prod | ucts (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C6-C12 | ND | | 100 | | ug/L | | | 09/10/13 22:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| a,a,a-Trifluorotoluene | 68 | | 50 - 150 | | | - | | 09/10/13 22:39 | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| C10-C24 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:07 | 1 |
| C24-C40 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenvl | | | 50 - 150 | | | | 09/07/13 14:43 | 09/11/13 18:07 | |

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-34640-3

09/10/13 23:39

Matrix: Water

| Client Sample ID | GW-241809-90413-LB-MW-8 |
|------------------|-------------------------|
|------------------|-------------------------|

Date Collected: 09/04/13 11:32 Date Received: 09/05/13 08:30

a,a,a-Trifluorotoluene

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|----------------------|------------|-----------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 1.00 | | ug/L | | | 09/13/13 04:55 | 1 |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 09/13/13 04:55 | 1 |
| Xylenes, Total | ND | | 2.00 | | ug/L | | | 09/13/13 04:55 | 1 |
| Toluene | ND | | 1.00 | | ug/L | | | 09/13/13 04:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | | | - | | 09/13/13 04:55 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 130 | | | | | 09/13/13 04:55 | 1 |
| Toluene-d8 (Surr) | 90 | | 70 - 130 | | | | | 09/13/13 04:55 | 1 |
| Dibromofluoromethane (Surr) | 113 | | 70 - 130 | | | | | 09/13/13 04:55 | 1 |
| Method: NWTPH-Gx - Northwo | est - Volatile Petro | oleum Prod | ucts (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C6-C12 | ND | | 100 | | ug/L | | | 09/10/13 23:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| C10-C24 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:23 | 1 |
| C24-C40 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | <u></u> | | 50 - 150 | | | | 09/07/13 14:43 | 09/11/13 18:23 | 1 |

50 - 150

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

Date Received: 09/05/13 08:30

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Client Sample ID: GW-241809-90413-LB-MW-11

Lab Sample ID: 490-34640-4 Date Collected: 09/04/13 12:25

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 1.00 | | ug/L | | | 09/13/13 05:22 | 1 |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 09/13/13 05:22 | 1 |
| Xylenes, Total | ND | | 2.00 | | ug/L | | | 09/13/13 05:22 | 1 |
| Toluene | ND | | 1.00 | | ug/L | | | 09/13/13 05:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | • | | 09/13/13 05:22 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 70 - 130 | | | | | 09/13/13 05:22 | 1 |
| Toluene-d8 (Surr) | 90 | | 70 - 130 | | | | | 09/13/13 05:22 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 70 - 130 | | | | | 09/13/13 05:22 | 1 |

| Method: 8270C SIM - Semivo | olatile Organic Con | npounds (G | C/MS SIM) | | | | | | |
|----------------------------|---------------------|------------|-----------|-----|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Naphthalene | 0.802 | | 0.0952 | | ug/L | | 09/07/13 08:54 | 09/08/13 20:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Terphenyl-d14 | 63 | | 13 - 120 | | | | 09/07/13 08:54 | 09/08/13 20:22 | 1 |
| Nitrobenzene-d5 | 46 | | 27 - 120 | | | | 09/07/13 08:54 | 09/08/13 20:22 | 1 |
| 2-Fluorobiphenyl (Surr) | 63 | | 29 - 120 | | | | 09/07/13 08:54 | 09/08/13 20:22 | 1 |

| Method: NWTPH-Gx - Northwest - | Volatile Petro | oleum Prodi | ucts (GC) | | | | | | |
|--------------------------------|----------------|-------------|-----------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C6-C12 | 174 | | 100 | | ug/L | | | 09/11/13 00:09 | 1 |
| | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| a,a,a-Trifluorotoluene | 69 | | 50 - 150 | | | - | | 09/11/13 00:09 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| C10-C24 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:39 | 1 |
| C24-C40 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 76 | | 50 - 150 | | | | 09/07/13 14:43 | 09/11/13 18:39 | 1 |

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

| Client Sample | ID: GW-24 | 1809-90413 | 3-LB-MW-12 |
|---------------|-----------|------------|------------|
|---------------|-----------|------------|------------|

Date Collected: 09/04/13 09:05 Date Received: 09/05/13 08:30 Lab Sample ID: 490-34640-5

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
|--|------------------------|--|---|-----|--------------|----------|--|--|--------|
| Benzene | ND | | 1.00 | | ug/L | | | 09/13/13 05:49 | |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 09/13/13 05:49 | |
| Xylenes, Total | ND | | 2.00 | | ug/L | | | 09/13/13 05:49 | |
| Toluene | ND | | 1.00 | | ug/L | | | 09/13/13 05:49 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 127 | | 70 - 130 | | | | | 09/13/13 05:49 | |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 130 | | | | | 09/13/13 05:49 | |
| Toluene-d8 (Surr) | 91 | | 70 - 130 | | | | | 09/13/13 05:49 | |
| Dibromofluoromethane (Surr) | 110 | | 70 - 130 | | | | | 09/13/13 05:49 | |
| Method: 8270C SIM - Semivola Analyte | Result | npounds (G Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| | • | • | • | MDL | Unit ug/L | D | Prepared 09/07/13 08:54 | Analyzed 09/08/13 20:45 | Dil Fa |
| Analyte Naphthalene | Result ND | Qualifier | 0.0935 | MDL | | <u>D</u> | 09/07/13 08:54 | 09/08/13 20:45 | |
| Analyte Naphthalene Surrogate | Result ND %Recovery | Qualifier | 0.0935 <i>Limits</i> | MDL | | <u>D</u> | 09/07/13 08:54 Prepared | 09/08/13 20:45 Analyzed | |
| Analyte Naphthalene Surrogate Terphenyl-d14 | Result ND %Recovery 67 | Qualifier | RL 0.0935 Limits 13 - 120 | MDL | | <u>D</u> | 09/07/13 08:54 Prepared 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 | |
| Analyte Naphthalene Surrogate Terphenyl-d14 Nitrobenzene-d5 | | Qualifier | RL 0.0935 Limits 13 - 120 27 - 120 | MDL | | <u>D</u> | 09/07/13 08:54 Prepared 09/07/13 08:54 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 09/08/13 20:45 | Dil Fa |
| Analyte Naphthalene Surrogate Terphenyl-d14 | Result ND %Recovery 67 | Qualifier | RL 0.0935 Limits 13 - 120 | MDL | | <u>D</u> | 09/07/13 08:54 Prepared 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 | Dil Fa |
| Analyte Naphthalene Surrogate Terphenyl-d14 Nitrobenzene-d5 | | Qualifier Qualifier | RL 0.0935 Limits 13 - 120 27 - 120 29 - 120 | MDL | | <u>D</u> | 09/07/13 08:54 Prepared 09/07/13 08:54 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 09/08/13 20:45 | Dil Fa |
| Analyte Naphthalene Surrogate Terphenyl-d14 Nitrobenzene-d5 2-Fluorobiphenyl (Surr) | | Qualifier Qualifier | RL 0.0935 Limits 13 - 120 27 - 120 29 - 120 | | | <u>D</u> | 09/07/13 08:54 Prepared 09/07/13 08:54 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 09/08/13 20:45 | Dil Fa |
| Analyte Naphthalene Surrogate Terphenyl-d14 Nitrobenzene-d5 2-Fluorobiphenyl (Surr) Method: NWTPH-Gx - Northwe | | Qualifier Qualifier | RL 0.0935 Limits 13 - 120 27 - 120 29 - 120 ucts (GC) | | ug/L | | 09/07/13 08:54 Prepared 09/07/13 08:54 09/07/13 08:54 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 09/08/13 20:45 09/08/13 20:45 | Dil Fa |
| Analyte Naphthalene Surrogate Terphenyl-d14 Nitrobenzene-d5 2-Fluorobiphenyl (Surr) Method: NWTPH-Gx - Northwe | | Qualifier Qualifier Dleum Prod Qualifier | RL 0.0935 Limits 13 - 120 27 - 120 29 - 120 ucts (GC) RL | | ug/L Unit | | 09/07/13 08:54 Prepared 09/07/13 08:54 09/07/13 08:54 09/07/13 08:54 | 09/08/13 20:45 Analyzed 09/08/13 20:45 09/08/13 20:45 09/08/13 20:45 Analyzed | Dil Fa |

| Method: NWTPH-Dx - Semi-Volatile | Petroleum | Products by | NW IPH with | Silica Gel | Cleanup |) | | | |
|----------------------------------|-----------|-------------|-------------|------------|---------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C10-C24 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:55 | 1 |
| C24-C40 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 18:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 77 | | 50 - 150 | | | | 09/07/13 14:43 | 09/11/13 18:55 | 1 |

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-34640-6

Matrix: Water

| Client Sample ID: GW-241809-90413-LB-MW-13 |
|--|
| Date Collected: 09/04/13 13:09 |

Date Received: 09/05/13 08:30

2-Fluorobiphenyl (Surr)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------------|------------|-----------|-----|------|---|----------------|----------------|---------|
| Benzene | 106 | | 1.00 | | ug/L | | | 09/13/13 06:15 | 1 |
| Ethylbenzene | 180 | | 1.00 | | ug/L | | | 09/13/13 06:15 | 1 |
| Xylenes, Total | 1060 | | 20.0 | | ug/L | | | 09/13/13 19:03 | 10 |
| Toluene | 52.3 | | 1.00 | | ug/L | | | 09/13/13 06:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | | 09/13/13 06:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | | 09/13/13 19:03 | 10 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | | | | | 09/13/13 06:15 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 130 | | | | | 09/13/13 19:03 | 10 |
| Toluene-d8 (Surr) | 92 | | 70 - 130 | | | | | 09/13/13 06:15 | 1 |
| Toluene-d8 (Surr) | 91 | | 70 - 130 | | | | | 09/13/13 19:03 | 10 |
| Dibromofluoromethane (Surr) | 103 | | 70 - 130 | | | | | 09/13/13 06:15 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 70 - 130 | | | | | 09/13/13 19:03 | 10 |
| Method: 8270C SIM - Semivola | atile Organic Con | npounds (G | C/MS SIM) | | | | | | |
| Analyte | _ | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Naphthalene | 77.1 | | 1.87 | | ug/L | | 09/07/13 08:54 | 09/08/13 23:09 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Terphenyl-d14 | 56 | | 13 - 120 | | | | 09/07/13 08:54 | 09/08/13 21:10 | 1 |
| Nitrobenzene-d5 | 175 | X | 27 - 120 | | | | 09/07/13 08:54 | 09/08/13 21:10 | 1 |

| Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) | | | | | | | | | | |
|---|-----------|-----------|----------|-----|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| C6-C12 | 11600 | | 1000 | | ug/L | | | 09/11/13 13:03 | 10 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| a,a,a-Trifluorotoluene | 152 | X | 50 - 150 | | | _ | | 09/11/13 13:03 | 10 | |

29 - 120

| Method: NWTPH-Dx - Se | emi-Volatile Petroleum l | Products by | y NWTPH with S | Silica Gel | Cleanup | | | | |
|-----------------------|--------------------------|-------------|----------------|------------|---------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C10-C24 | 3760 | | 467 | | ug/L | | 09/07/13 14:43 | 09/12/13 11:41 | 5 |
| C24-C40 | ND | | 93.5 | | ug/L | | 09/07/13 14:43 | 09/11/13 19:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 83 | | 50 - 150 | | | | 09/07/13 14:43 | 09/11/13 19:11 | 1 |

TestAmerica Job ID: 490-34640-1

SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS)

мв мв Result Qualifier

ND

ND

ND

ND

Lab Sample ID: MB 490-106811/4

Client: Conestoga-Rovers & Associates, Inc.

Project/Site: 11700 NE 160th Bothell WA

Matrix: Water

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analysis Batch: 106811

Client Sample ID: Method Blank Prep Type: Total/NA

> 09/12/13 22:40 09/12/13 22:40

Dil Fac D Prepared Analyzed 09/12/13 22:40 09/12/13 22:40

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 4-Bromofluorobenzene (Surr) 99 70 - 130 09/12/13 22:40 1,2-Dichloroethane-d4 (Surr) 111 70 - 130 09/12/13 22:40 Toluene-d8 (Surr) 70 - 130 09/12/13 22:40 90 09/12/13 22:40 Dibromofluoromethane (Surr) 109 70 - 130

RL

1.00

1.00

2.00

1.00

MDL Unit

ug/L

ug/L

ug/L

ug/L

Lab Sample ID: LCS 490-106811/3

Matrix: Water

Analysis Batch: 106811

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 20.0 19.94 80 - 121 100 ug/L Ethylbenzene 20.0 19.68 ug/L 98 80 - 130 Xylenes, Total 40.0 40.01 80 - 132 ug/L 100 Toluene 20.0 18.98 ug/L 95 80 - 126

LCS LCS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 102 70 - 130 1,2-Dichloroethane-d4 (Surr) 101 70 - 130 Toluene-d8 (Surr) 70 - 130 92 70 - 130 Dibromofluoromethane (Surr) 105

Lab Sample ID: 490-34641-D-1 MS

Matrix: Water

Analysis Batch: 106811

Client Sample ID: Matrix Spike Prep Type: Total/NA

| 7 man, 610 2 at 611 1000 11 | Sample | Sample | Spike | MS | MS | | | | %Rec. |
|-----------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Benzene | ND | | 50.0 | 41.74 | | ug/L | | 83 | 75 - 133 |
| Ethylbenzene | ND | | 50.0 | 41.66 | | ug/L | | 83 | 79 - 139 |
| Xylenes, Total | ND | | 100 | 86.08 | | ug/L | | 86 | 74 - 141 |
| Toluene | ND | | 50.0 | 39.99 | | ug/L | | 80 | 75 - 136 |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 70 - 130 |
| Toluene-d8 (Surr) | 93 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 100 | | 70 - 130 |

TestAmerica Nashville

TestAmerica Job ID: 490-34640-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-34641-E-1 MSD

Matrix: Water

Analysis Batch: 106811

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD | |
|----------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | ND | | 50.0 | 42.89 | | ug/L | | 86 | 75 - 133 | 3 | 17 | |
| Ethylbenzene | ND | | 50.0 | 43.46 | | ug/L | | 87 | 79 - 139 | 4 | 15 | |
| Xylenes, Total | ND | | 100 | 89.13 | | ug/L | | 89 | 74 - 141 | 3 | 15 | |
| Toluene | ND | | 50.0 | 41.25 | | ug/L | | 82 | 75 - 136 | 3 | 15 | |
| | | | | | | | | | | | | |

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 100 70 - 130 70 - 130 1,2-Dichloroethane-d4 (Surr) 95 Toluene-d8 (Surr) 93 70 - 130 Dibromofluoromethane (Surr) 70 - 130 102

Lab Sample ID: MB 490-106820/4 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 106820

| | IVID | IVID | | | | | | | |
|----------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 1.00 | | ug/L | | | 09/13/13 13:01 | 1 |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 09/13/13 13:01 | 1 |
| Xylenes, Total | ND | | 2.00 | | ug/L | | | 09/13/13 13:01 | 1 |
| Toluene | ND | | 1.00 | | ug/L | | | 09/13/13 13:01 | 1 |
| | | | | | | | | | |

MR MR Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 102 70 - 130 09/13/13 13:01 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) 109 70 - 130 09/13/13 13:01 Toluene-d8 (Surr) 91 70 - 130 09/13/13 13:01 Dibromofluoromethane (Surr) 70 - 130 09/13/13 13:01 110

Lab Sample ID: LCS 490-106820/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 106820

| | Spike | LCS | LCS | | | | %Rec. | |
|----------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 20.0 | 21.29 | | ug/L | | 106 | 80 - 121 | |
| Ethylbenzene | 20.0 | 20.95 | | ug/L | | 105 | 80 - 130 | |
| Xylenes, Total | 40.0 | 42.81 | | ug/L | | 107 | 80 - 132 | |
| Toluene | 20.0 | 20.36 | | ug/L | | 102 | 80 - 126 | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 |
| Toluene-d8 (Surr) | 92 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 |

TestAmerica Nashville

TestAmerica Job ID: 490-34640-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-34603-B-2 MS **Matrix: Water**

Analysis Batch: 106820

Client Sample ID: Matrix Spike Prep Type: Total/NA

MS MS %Rec. Sample Sample Spike Qualifier Added %Rec Limits Analyte Result Result Qualifier Unit Benzene ND 50.0 44.69 ug/L 89 75 - 133 Ethylbenzene ND 50.0 44.44 ug/L 89 79 - 139 Xylenes, Total ND 100 95.00 ug/L 95 74 - 141 Toluene ND 50.0 42.21 ug/L 84 75 - 136

MS MS %Recovery Limits Surrogate Qualifier 4-Bromofluorobenzene (Surr) 96 70 - 130 1,2-Dichloroethane-d4 (Surr) 99 70 - 130 Toluene-d8 (Surr) 91 70 - 130 Dibromofluoromethane (Surr) 106 70 - 130

Lab Sample ID: 490-34603-C-2 MSD

Matrix: Water

Analysis Batch: 106820

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD %Rec. RPD Sample Sample Spike RPD Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene ND 50.0 45.45 91 75 - 133 2 17 ug/L Ethylbenzene ND 50.0 44.44 ug/L 89 79 - 139 0 15 ND 100 89.38 Xylenes, Total ug/L 89 74 - 141 6 15 Toluene ND 50.0 42.77 ug/L 86 75 - 136 15

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 70 - 130 1,2-Dichloroethane-d4 (Surr) 102 70 - 130 91 70 - 130 Toluene-d8 (Surr) 70 - 130 Dibromofluoromethane (Surr) 105

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

MB MB Result

Qualifier

Lab Sample ID: MB 490-105402/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 105491

Prep Type: Total/NA Prep Batch: 105402

Analyzed

Dil Fac

Naphthalene ND 0.100 ug/L 09/07/13 08:54 09/08/13 16:45 MB MB Qualifier Surrogate Limits Prepared Dil Fac %Recovery Analyzed Terphenyl-d14 80 13 - 120 09/07/13 08:54 09/08/13 16:45 Nitrobenzene-d5 71 27 - 120 09/07/13 08:54 09/08/13 16:45 09/07/13 08:54 2-Fluorobiphenyl (Surr) 72 29 - 120 09/08/13 16:45

RL

MDL Unit

Lab Sample ID: LCS 490-105402/2-A

Matrix: Water

Analysis Batch: 105491

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 105402

D

Prepared

Spike LCS LCS %Rec Added Qualifier Limits Analyte Result Unit D %Rec Naphthalene 1.00 0.7452 ug/L 75 37 - 120

TestAmerica Nashville

Page 15 of 28

9/16/2013

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 490-105402/2-A

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

Matrix: Water

Analysis Batch: 105491

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 105402

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: GW-241809-90413-LB-MW-5

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-------------------------|-----------|-----------|----------|
| Terphenyl-d14 | 72 | | 13 - 120 |
| Nitrobenzene-d5 | 75 | | 27 - 120 |
| 2-Fluorobiphenyl (Surr) | 67 | | 29 - 120 |

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-105801/27

Matrix: Water

Analysis Batch: 105801

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac C6-C12 ND 100 09/10/13 21:39 ug/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac a,a,a-Trifluorotoluene 50 - 150 09/10/13 21:39 71

Lab Sample ID: LCS 490-105801/40 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 105801

Spike LCS LCS %Rec. Analyte babbA Result Qualifier Unit D %Rec Limits C6-C12 1000 893.1 ug/L 89 39 - 143

LCS LCS %Recovery Qualifier

Surrogate Limits a,a,a-Trifluorotoluene 62 50 - 150

Lab Sample ID: 490-34640-2 DU

Matrix: Water

Analysis Batch: 105801

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier Analyte RPD Limit Unit C6-C12 ND ND ug/L

DU DU

Surrogate %Recovery Qualifier Limits a,a,a-Trifluorotoluene 69 50 - 150

Lab Sample ID: MB 490-106079/7

Matrix: Water

Analysis Batch: 106079

| 7, 6.0 2 100010 | MB | MB | | | | | | | |
|-----------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C6-C12 | ND | | 100 | | ug/L | | | 09/11/13 11:23 | 1 |
| | МВ | МВ | | | | | | | |

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac a,a,a-Trifluorotoluene 165 X 50 - 150 09/11/13 11:23

TestAmerica Nashville

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 490-106079/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 106079

Spike LCS LCS %Rec. Added Result Qualifier %Rec Limits Analyte Unit D 1000 C6-C12 1023 ug/L 102 39 _ 143

LCS LCS

Qualifier Limits Surrogate %Recovery 50 - 150 a,a,a-Trifluorotoluene 144

Lab Sample ID: LCSD 490-106079/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 106079

LCSD LCSD Spike %Rec. RPD Added Result Qualifier RPD Analyte Limits Limit Unit %Rec C6-C12 1000 98 18 982.2 ug/L 39 _ 143

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 a,a,a-Trifluorotoluene 145

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

MR MR

MB MB

Lab Sample ID: MB 490-105449/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Prep Batch: 105449**

Analysis Batch: 106200

MDL Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac C10-C24 09/07/13 14:43 ND 100 ug/L 09/11/13 17:03 C24-C40 ND 100 ug/L 09/07/13 14:43 09/11/13 17:03

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 09/07/13 14:43 09/11/13 17:03 o-Terphenyl 70

Lab Sample ID: LCS 490-105449/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 106200

Spike LCS LCS %Rec. Added Result Qualifier D %Rec Limits Unit

Analyte C10-C24 1000 593.9 ug/L 59 51 - 132

LCS LCS

%Recovery Qualifier Limits Surrogate 50 - 150 o-Terphenyl 74

Lab Sample ID: 490-34640-1 DU **Matrix: Water**

Analysis Batch: 106200

Prep Batch: 105449 Sample Sample DU DU RPD Result Qualifier Result Qualifier Unit D RPD ND 22

Analyte Limit C10-C24 ND 41 ug/L C24-C40 213 239.1 ug/L 12 41

TestAmerica Nashville

Prep Type: Total/NA

Client Sample ID: GW-241809-90413-LB-MW-4

Prep Batch: 105449

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

2

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

Lab Sample ID: 490-34640-1 DU

Matrix: Water

Analysis Batch: 106200

Client Sample ID: GW-241809-90413-LB-MW-4

Prep Type: Total/NA

Prep Batch: 105449

DU DU

7

8

10

11

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

GC/MS VOA

Analysis Batch: 106811

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------------|-----------|--------|--------|------------|
| 490-34640-1 | GW-241809-90413-LB-MW-4 | Total/NA | Water | 8260B | _ |
| 490-34640-2 | GW-241809-90413-LB-MW-5 | Total/NA | Water | 8260B | |
| 490-34640-3 | GW-241809-90413-LB-MW-8 | Total/NA | Water | 8260B | |
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Total/NA | Water | 8260B | |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Total/NA | Water | 8260B | |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | 8260B | |
| 490-34641-D-1 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 490-34641-E-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| LCS 490-106811/3 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 490-106811/4 | Method Blank | Total/NA | Water | 8260B | |

Analysis Batch: 106820

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|-------------------|--------------------------|-----------|--------|--------|------------|
| 490-34603-B-2 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 490-34603-C-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | 8260B | |
| LCS 490-106820/3 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 490-106820/4 | Method Blank | Total/NA | Water | 8260B | |

GC/MS Semi VOA

Prep Batch: 105402

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|--------|------------|
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Total/NA | Water | 3510C | |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Total/NA | Water | 3510C | |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | 3510C | |
| LCS 490-105402/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 490-105402/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 105491

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|-----------|------------|
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Total/NA | Water | 8270C SIM | 105402 |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Total/NA | Water | 8270C SIM | 105402 |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | 8270C SIM | 105402 |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | 8270C SIM | 105402 |
| LCS 490-105402/2-A | Lab Control Sample | Total/NA | Water | 8270C SIM | 105402 |
| MB 490-105402/1-A | Method Blank | Total/NA | Water | 8270C SIM | 105402 |

GC VOA

Analysis Batch: 105801

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------------|-----------|--------|----------|------------|
| 490-34640-1 | GW-241809-90413-LB-MW-4 | Total/NA | Water | NWTPH-Gx | |
| 490-34640-2 | GW-241809-90413-LB-MW-5 | Total/NA | Water | NWTPH-Gx | |
| 490-34640-2 DU | GW-241809-90413-LB-MW-5 | Total/NA | Water | NWTPH-Gx | |
| 490-34640-3 | GW-241809-90413-LB-MW-8 | Total/NA | Water | NWTPH-Gx | |
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Total/NA | Water | NWTPH-Gx | |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Total/NA | Water | NWTPH-Gx | |
| LCS 490-105801/40 | Lab Control Sample | Total/NA | Water | NWTPH-Gx | |
| MB 490-105801/27 | Method Blank | Total/NA | Water | NWTPH-Gx | |

TestAmerica Nashville

Page 19 of 28

5

-

6

8

9

10

12

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

3

GC VOA (Continued)

Analysis Batch: 106079

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------------|-----------|--------|----------|------------|
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | NWTPH-Gx | |
| LCS 490-106079/5 | Lab Control Sample | Total/NA | Water | NWTPH-Gx | |
| LCSD 490-106079/6 | Lab Control Sample Dup | Total/NA | Water | NWTPH-Gx | |
| MB 490-106079/7 | Method Blank | Total/NA | Water | NWTPH-Gx | |

4

GC Semi VOA

Prep Batch: 105449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|--------|------------|
| 490-34640-1 | GW-241809-90413-LB-MW-4 | Total/NA | Water | 3510C | |
| 490-34640-1 DU | GW-241809-90413-LB-MW-4 | Total/NA | Water | 3510C | |
| 490-34640-2 | GW-241809-90413-LB-MW-5 | Total/NA | Water | 3510C | |
| 490-34640-3 | GW-241809-90413-LB-MW-8 | Total/NA | Water | 3510C | |
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Total/NA | Water | 3510C | |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Total/NA | Water | 3510C | |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | 3510C | |
| LCS 490-105449/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 490-105449/1-A | Method Blank | Total/NA | Water | 3510C | |

11

Analysis Batch: 106200

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|----------|------------|
| 490-34640-1 | GW-241809-90413-LB-MW-4 | Total/NA | Water | NWTPH-Dx | 105449 |
| 490-34640-1 DU | GW-241809-90413-LB-MW-4 | Total/NA | Water | NWTPH-Dx | 105449 |
| 490-34640-2 | GW-241809-90413-LB-MW-5 | Total/NA | Water | NWTPH-Dx | 105449 |
| 490-34640-3 | GW-241809-90413-LB-MW-8 | Total/NA | Water | NWTPH-Dx | 105449 |
| 490-34640-4 | GW-241809-90413-LB-MW-11 | Total/NA | Water | NWTPH-Dx | 105449 |
| 490-34640-5 | GW-241809-90413-LB-MW-12 | Total/NA | Water | NWTPH-Dx | 105449 |
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | NWTPH-Dx | 105449 |
| LCS 490-105449/2-A | Lab Control Sample | Total/NA | Water | NWTPH-Dx | 105449 |
| MB 490-105449/1-A | Method Blank | Total/NA | Water | NWTPH-Dx | 105449 |

Analysis Batch: 106531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------------|-----------|--------|----------|------------|
| 490-34640-6 | GW-241809-90413-LB-MW-13 | Total/NA | Water | NWTPH-Dx | 105449 |

TestAmerica Nashville

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Client Sample ID: GW-241809-90413-LB-MW-4

Date Collected: 09/04/13 09:52 Date Received: 09/05/13 08:30

Lab Sample ID: 490-34640-1

Matrix: Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 106811 | 09/13/13 04:01 | JJR | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 105801 | 09/10/13 22:09 | GWM | TAL NSH |
| Total/NA | Prep | 3510C | | | 105449 | 09/07/13 14:43 | CG | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 106200 | 09/11/13 17:35 | JML | TAL NSH |

Client Sample ID: GW-241809-90413-LB-MW-5

Date Collected: 09/04/13 10:46 Date Received: 09/05/13 08:30

Lab Sample ID: 490-34640-2

Matrix: Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 106811 | 09/13/13 04:28 | JJR | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 105801 | 09/10/13 22:39 | GWM | TAL NSH |
| Total/NA | Prep | 3510C | | | 105449 | 09/07/13 14:43 | CG | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 106200 | 09/11/13 18:07 | JML | TAL NSH |

Client Sample ID: GW-241809-90413-LB-MW-8

Date Collected: 09/04/13 11:32

Date Received: 09/05/13 08:30

Lab Sample ID: 490-34640-3

Matrix: Water

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 106811 | 09/13/13 04:55 | JJR | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 105801 | 09/10/13 23:39 | GWM | TAL NSH |
| Total/NA | Prep | 3510C | | | 105449 | 09/07/13 14:43 | CG | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 106200 | 09/11/13 18:23 | JML | TAL NSH |

Client Sample ID: GW-241809-90413-LB-MW-11

Date Collected: 09/04/13 12:25

Date Received: 09/05/13 08:30

| Lab Sa | mple | ID: | 490 | -34 | 1640-4 | |
|--------|------|-----|-----|-----|--------|--|
| | | | | | | |

Matrix: Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------|---------------|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | - | 1 | 106811 | 09/13/13 05:22 | JJR | TAL NSH |
| Total/NA | Prep | 3510C | | | 105402 | 09/07/13 08:54 | CLH | TAL NSH |
| Total/NA | Analysis | 8270C SIM | | 1 | 105491 | 09/08/13 20:22 | BES | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 105801 | 09/11/13 00:09 | GWM | TAL NSH |
| Total/NA | Prep | 3510C | | | 105449 | 09/07/13 14:43 | CG | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 106200 | 09/11/13 18:39 | JML | TAL NSH |

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-34640-5

Matrix: Water

Client Sample ID: GW-241809-90413-LB-MW-12

Date Collected: 09/04/13 09:05 Date Received: 09/05/13 08:30

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 106811 | 09/13/13 05:49 | JJR | TAL NSH |
| Total/NA | Prep | 3510C | | | 105402 | 09/07/13 08:54 | CLH | TAL NSH |
| Total/NA | Analysis | 8270C SIM | | 1 | 105491 | 09/08/13 20:45 | BES | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 105801 | 09/11/13 00:39 | GWM | TAL NSH |
| Total/NA | Prep | 3510C | | | 105449 | 09/07/13 14:43 | CG | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 106200 | 09/11/13 18:55 | JML | TAL NSH |

Client Sample ID: GW-241809-90413-LB-MW-13 Lab Sample ID: 490-34640-6

Date Collected: 09/04/13 13:09 Matrix: Water

Date Received: 09/05/13 08:30

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 106811 | 09/13/13 06:15 | JJR | TAL NSH |
| Total/NA | Analysis | 8260B | | 10 | 106820 | 09/13/13 19:03 | JJR | TAL NSH |
| Total/NA | Prep | 3510C | | | 105402 | 09/07/13 08:54 | CLH | TAL NSH |
| Total/NA | Analysis | 8270C SIM | | 1 | 105491 | 09/08/13 21:10 | BES | TAL NSH |
| Total/NA | Analysis | 8270C SIM | | 20 | 105491 | 09/08/13 23:09 | BES | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 10 | 106079 | 09/11/13 13:03 | GWM | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 106200 | 09/11/13 19:11 | JML | TAL NSH |
| Total/NA | Prep | 3510C | | | 105449 | 09/07/13 14:43 | CG | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 5 | 106531 | 09/12/13 11:41 | JML | TAL NSH |

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

| Method | Method Description | Protocol | Laboratory |
|-----------|---|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL NSH |
| 8270C SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL NSH |
| NWTPH-Gx | Northwest - Volatile Petroleum Products (GC) | NWTPH | TAL NSH |
| NWTPH-Dx | Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup | NWTPH | TAL NSH |

4

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

9

10

1 1

15

11:

Certification Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th Bothell WA

TestAmerica Job ID: 490-34640-1 SDG: SAP 120531 / 241809

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|------------------------|
| Washington | State Program | 10 | C789 | 07-19-14 |

4

5

7

9

__

COOLER RECEIPT FO



| Cooler Received/Opened On 9/5/2013@ 0830 | Chain of Custody |
|---|------------------|
| 1. Tracking #(last 4 digits, FedEx) | J114001 = 1 |
| Courier: <u>FedEx</u> IR Gun ID 12080142 | |
| 2. Temperature of rep. sample or temp blank when opened:Degrees Celsius | |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? | YES NO. NA |
| 4. Were custody seals on outside of cooler? | YES).NONA |
| If yes, how many and where: | |
| 5. Were the seals intact, signed, and dated correctly? | YESNONA |
| 6. Were custody papers inside cooler? | (YES)NONA |
| certify that I opened the cooler and answered questions 1-6 (intial) | W |
| 7. Were custody seals on containers: YES NO and Intact | YESNO. NA |
| Were these signed and dated correctly? | YESNO. |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pape | r Other None |
| 9. Cooling process: Lee-pack lee (direct contact) Dry ice | Other None |
| 10. Did all containers arrive in good condition (unbroken)? | YESNONA |
| 11. Were all container labels complete (#, date, signed, pres., etc)? | YESNONA |
| 12. Did all container labels and tags agree with custody papers? | YES. NONA |
| 13a. Were VOA vials received? | YES.(NO).NA |
| b. Was there any observable headspace present in any VOA vial? | YESNO.(NA) |
| 14. Was there a Trip Blank in this cooler? YES∴.NO (NA) If multiple coolers, sequen | ce # <u>VA</u> |
| certify that I unloaded the cooler and answered questions 7-14 (intial) | |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? | YESNO NA |
| b. Did the bottle labels indicate that the correct preservatives were used | YES, NONA |
| 16. Was residual chlorine present? | YESNONA |
| certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) | <u> </u> |
| 17. Were custody papers properly filled out (ink, signed, etc)? | YESNONA |
| 18. Did you sign the custody papers in the appropriate place? | YESNONA |
| 19. Were correct containers used for the analysis requested? | VES NONA |
| 20. Was sufficient amount of sample sent in each container? | YES NONA |
| certify that Lentered this project into LIMS and answered questions 17-20 (intial) | |
| certify that I attached a label with the unique LIMS number to each container (intial) | <u>\$\P'</u> |
| | |

....

9/16/2013

COOLER RECEIPT FORM

Loc: 490 **34640**

| Cooler Received/Opened On: 9/5/13 @ 8:30 Clast 4 digits, FedEx) | |
|--|-------------------|
| Cooler Received/Opened of(last 4 digits, FedEx) | |
| 1. Tracking # | |
| Courier: | |
| 2. Temperature of rep. sample or temp blank when opened: | S NO. (NA) |
| 3. If Item #2 temperature is 0°C or less, was the tage. | ESNONA |
| 4. Were custody seals on outside of cooler? | |
| If yes, how many and where: | E8NONA |
| | SNONA |
| A Ware sustody papers inside cooler? | |
| | YESNO |
| 7. Were custody seals on containers: | YESNO |
| Were these signed and dated correctly? | Other None |
| Were these signed and dated correctly. 8. Packing mat'l used Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper 8. Packing mat'l used Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper | Other None |
| a Cooling process: | YESNONA |
| 10. Did all containers arrive in good condition (unbroken)? | YES .NONA |
| 44. Were all container labels complete (#, date, signed, pres., etc): | S.NONA |
| 12. Did all container labels and tags agree with custody papers? | YES .NONA |
| 13a. Were VOA vials received? | YESNO.NA |
| b. Was there any observable headspace present in any VOA vial? b. Was there any observable headspace present in any VOA vial? JESNO.(NA) If multiple coolers, sequences | ce #_ |
| Was there a Trip Blank in this cooler? YESNONA | |
| denouvered guestions (-14 (Initial) | YESNO(NA) |
| On gree'd bottles, did pH test strips suggest preservation reaction and | ESNONA |
| b. Did the bottle labels indicate that the correct preservatives were used | YESNO(NA) |
| the proceeding | |
| Leartify that I checked for chlorine and pH as per SOP and answered questions 19 19 | YES NONA |
| 47 Were custody papers properly filled out (ink, signed, etc) r | VES NO NA |
| 18. Did you sign the custody papers in the appropriate place? | YESNONA |
| 19. Were correct containers used for the analysis requested? | |
| fisient amount of sample sent in each container? | NONA |
| this project into LIMS and answered questions 17-20 (IIINES) | |
| the similar of the similar of the each contains the | 4 |
| I certify that I attached a label with the unique Elimente Service Ser | s(NO)# |

6

9

10

12

Page 27 of 28

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-34640-1

SDG Number: SAP 120531 / 241809

List Source: TestAmerica Nashville

Login Number: 34640 List Number: 1

Creator: Ford, Easton

| Creator: Ford, Easton | | |
|--|--------|---------|
| Question | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |
| | | |



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-42170-1

TestAmerica Sample Delivery Group: SAP 120531 / 241809 Client Project/Site: 11700 NE 160th, Bothell, WA

For:

Conestoga-Rovers & Associates, Inc. 20818 44th Ave W Suite 190 Lynnwood, Washington 98036

Attn: Christina McClelland

Um An Figura

Authorized for release by: 12/23/2013 9:18:09 AM

Ryan Fitzwater, Senior Project Manager (615)726-0177

ryan.fitzwater@testamericainc.com

·····LINKS ·······

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

| Cover Page | 1 |
|-----------------------|----|
| Table of Contents | 2 |
| Sample Summary | 3 |
| Case Narrative | 4 |
| Definitions | 6 |
| Client Sample Results | 7 |
| QC Sample Results | 9 |
| QC Association | 15 |
| Chronicle | 17 |
| Method Summary | 18 |
| Certification Summary | 19 |
| Chain of Custody | 20 |
| Receipt Checklists | 23 |

6

0

9

10

12

Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------------|--------------|----------------|----------------|
| 490-42170-1 | GW-241809-120513-RK-MW-3 | Ground Water | 12/05/13 14:29 | 12/09/13 09:00 |
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Ground Water | 12/05/13 13:49 | 12/09/13 09:00 |

Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Job ID: 490-42170-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-42170-1

Comments

No additional comments.

Receipt

The samples were received on 12/9/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5° C and 3.2° C.

GC/MS VOA

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Job ID: 490-42170-2

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-42170-2

Comments

No additional comments.

Receipt

The samples were received on 12/9/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5° C and 3.2° C.

GC/MS Semi VOA

Method(s) 8270C SIM: Surrogate recovery for the following sample was outside control limits: GW-241809-120513-RK-MW-13 (490-42170-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 128047.

No other analytical or quality issues were noted.

GC VOA

Method(s) NWTPH-Gx: Surrogate recovery for the continuing calibration verification (CCV) associated with Batch 128431 was outside control limits. Individual TPH Range GRO recoveries, however, meet method requirements for data integrity; and CCV chromatography pattern for Surrogate matches that established during most recent ICAL event. Therefore, samples associated with this CCV were not repeated. Surrogate recovery for samples were within limits.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Gasoline product used by the laboratory for quantitative purposes: GW-241809-120513-RK-MW-13 (490-42170-2).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles the Diesel Fuel #2 and Motor oil products used by the laboratory for quantitative purposes: GW-241809-120513-RK-MW-3 (490-42170-1).

4

_

7

8

3

11

12

lk.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

- 1

Job ID: 490-42170-2 (Continued)

Laboratory: TestAmerica Nashville (Continued)

No other analytical or quality issues were noted.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 128047.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 128128.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

4

5

6

Ö

a a

45

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

Not detected at the reporting limit (or MDL or EDL if shown)

Relative Percent Difference, a measure of the relative difference between two points

Reporting Limit or Requested Limit (Radiochemistry)

Practical Quantitation Limit

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Quality Control

Relative error ratio

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

-

Qualifiers

GC/MS Semi VOA

| (| Qualifier | Qualifier Description |
|---|-----------|-------------------------------------|
|) | X | Surrogate is outside control limits |

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | RPD of the LCS and LCSD exceeds the control limits |

Glossary

ND

PQL

QC

RER

RPD

TEF TEQ

RL

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-42170-1

Prepared

12/11/13 12:28

Analyzed

12/13/13 00:48

Dil Fac

Matrix: Ground Water

| Client | Sample | ID: | GW-24 | 1809- | 12051 | 3-RK-MW-3 | , |
|--------|--------|-----|-------|-------|-------|-----------|---|
| | | | | | | | |

Date Collected: 12/05/13 14:29

Surrogate

o-Terphenyl

| Method: 8260B - Volatile Orga | nic Compounds | (GC/MS) | | | | | | | |
|--|----------------------|-------------|----------------|-----------|------------------------------|---|-------------------------|-------------------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 1.00 | | ug/L | | | 12/11/13 14:59 | 1 |
| Ethylbenzene | ND | | 1.00 | | ug/L | | | 12/11/13 14:59 | 1 |
| Xylenes, Total | ND | | 3.00 | | ug/L | | | 12/11/13 14:59 | 1 |
| Toluene | ND | | 1.00 | | ug/L | | | 12/11/13 14:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | | | | 12/11/13 14:59 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 | | | | | 12/11/13 14:59 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 12/11/13 14:59 | 1 |
| Dibromofluoromethane (Surr) | 111 | | 70 - 130 | | | | | 12/11/13 14:59 | 1 |
| Method: NWTPH-Gx - Northwo | est - Volatile Petro | oleum Prod | ucts (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C6-C12 | ND | | 100 | | ug/L | | | 12/13/13 00:47 | 1 |
| | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Surrogate | | | | | | | | 12/13/13 00:47 | 1 |
| Surrogate a,a,a-Trifluorotoluene | 63 | | 50 - 150 | | | | | | |
| a,a,a-Trifluorotoluene | | Products by | | Silica Ge | l Cleanup |) | | | |
| a,a,a-Trifluorotoluene Method: NWTPH-Dx - Semi-Vo | olatile Petroleum | Products by | | | l Cleanup _{Unit} | D | Prepared | Analyzed | Dil Fac |
| | olatile Petroleum | - | / NWTPH with S | | | | Prepared 12/11/13 12:28 | Analyzed 12/13/13 00:48 | Dil Fac |

Limits

50 - 150

%Recovery Qualifier

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-42170-2

Matrix: Ground Water

Client Sample ID: GW-241809-120513-RK-MW-13

Date Collected: 12/05/13 13:49 Date Received: 12/09/13 09:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------------|------------|-----------|-----|------|---|----------------|----------------|---------|
| Benzene | 162 | | 1.00 | | ug/L | | | 12/11/13 15:24 | 1 |
| Ethylbenzene | 339 | | 10.0 | | ug/L | | | 12/19/13 18:37 | 10 |
| Xylenes, Total | 738 | | 30.0 | | ug/L | | | 12/19/13 18:37 | 10 |
| Toluene | 21.1 | | 1.00 | | ug/L | | | 12/11/13 15:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | | | | 12/11/13 15:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | | | 12/19/13 18:37 | 10 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | | | | | 12/11/13 15:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 130 | | | | | 12/19/13 18:37 | 10 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 12/11/13 15:24 | 1 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 | | | | | 12/19/13 18:37 | 10 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 | | | | | 12/11/13 15:24 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 70 - 130 | | | | | 12/19/13 18:37 | 10 |
| Method: 8270C SIM - Semivola | ntile Organic Com | npounds (G | C/MS SIM) | | | | | | |
| Analyte | _ | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Naphthalene | 93.4 | | 2.27 | | ug/L | | 12/11/13 10:04 | 12/12/13 15:48 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Terphenyl-d14 | 83 | | 13 - 120 | | | | 12/11/13 10:04 | 12/11/13 22:16 | 1 |
| Nitrobenzene-d5 | 432 | X | 27 - 120 | | | | 12/11/13 10:04 | 12/11/13 22:16 | 1 |
| 2-Fluorobiphenyl (Surr) | 73 | | 29 - 120 | | | | 12/11/13 10:04 | 12/11/13 22:16 | |

| Volatile Petro | oleum Prod | ucts (GC) | | | | | | |
|----------------|------------------------------|--|--|--|--|---|--|---|
| Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 14900 | * | 1000 | | ug/L | | | 12/13/13 13:01 | 10 |
| | Qualifier | Limits 50 - 150 | | | - | Prepared | Analyzed 12/13/13 13:01 | Dil Fac |
| | Result 14900 %Recovery | Result Qualifier 14900 * %Recovery Qualifier | 14900 * 1000 %Recovery Qualifier Limits | Result 14900 Qualifier * RL 1000 MDL 1000 ** 1000 1000 | Result 14900 Qualifier RL 1000 MDL ug/L Unit ug/L %Recovery Qualifier Limits | Result 14900 * Qualifier (MDL) 1000 MDL (ug/L) (ug/L) | Result 14900 Qualifier RL 1000 MDL unit ug/L D repared %Recovery Qualifier Limits Prepared | Result 14900 Qualifier RL 1000 MDL unit ug/L D 12/13/13 13:01 ** 1000 ug/L 12/13/13 13:01 **Recovery Qualifier Limits Prepared Analyzed |

| Method: NWTPH-Dx - S | | | | | | | | | |
|----------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C10-C24 | 3400 | | 426 | | ug/L | | 12/11/13 12:28 | 12/13/13 10:40 | 4 |
| C24-C40 | ND | | 106 | | ug/L | | 12/11/13 12:28 | 12/13/13 01:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| o-Terphenyl | 74 | | 50 - 150 | | | | 12/11/13 12:28 | 12/13/13 01:03 | 1 |

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS)

MR MR

Lab Sample ID: MB 490-128054/7

Matrix: Water

Analysis Batch: 128054

| Client Sample ID: Method Blank | |
|--------------------------------|--|
| Prep Type: Total/NA | |

| | 11.5 11.5 | | | | | | |
|----------------|----------------|--------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifi | ier RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | 1.00 | ug/L | | | 12/11/13 13:17 | 1 |
| Ethylbenzene | ND | 1.00 | ug/L | | | 12/11/13 13:17 | 1 |
| Xylenes, Total | ND | 3.00 | ug/L | | | 12/11/13 13:17 | 1 |
| Toluene | ND | 1.00 | ug/L | | | 12/11/13 13:17 | 1 |
| | | | | | | | |

MB MB Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 4-Bromofluorobenzene (Surr) 99 70 - 130 12/11/13 13:17 70 - 130 1,2-Dichloroethane-d4 (Surr) 104 12/11/13 13:17 Toluene-d8 (Surr) 70 - 130 101 12/11/13 13:17 Dibromofluoromethane (Surr) 70 - 130 12/11/13 13:17 112

Lab Sample ID: LCS 490-128054/3

Matrix: Water

Analysis Batch: 128054

Client Sample ID: Lab Control Sample Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec. | |
|----------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 50.0 | 50.37 | | ug/L | | 101 | 80 - 121 | |
| Ethylbenzene | 50.0 | 49.90 | | ug/L | | 100 | 80 - 130 | |
| Xylenes, Total | 150 | 149.9 | | ug/L | | 100 | 80 - 132 | |
| Toluene | 50.0 | 50.52 | | ug/L | | 101 | 80 - 126 | |

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 1,2-Dichloroethane-d4 (Surr) 103 70 - 130 Toluene-d8 (Surr) 101 70 - 130 Dibromofluoromethane (Surr) 111 70 - 130

> **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Analysis Batch: 128054

Matrix: Water

Lab Sample ID: LCSD 490-128054/4

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD | |
|----------------|-------|--------|-----------|------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 50.0 | 52.95 | | ug/L | | 106 | 80 - 121 | 5 | 17 | |
| Ethylbenzene | 50.0 | 52.80 | | ug/L | | 106 | 80 - 130 | 6 | 15 | |
| Xylenes, Total | 150 | 158.5 | | ug/L | | 106 | 80 - 132 | 6 | 15 | |
| Toluene | 50.0 | 54.14 | | ug/L | | 108 | 80 - 126 | 7 | 15 | |

| | LCSD | LCSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 112 | | 70 - 130 |

Page 9 of 23

TestAmerica Job ID: 490-42170-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-42273-B-9 MS

Matrix: Water

Analysis Batch: 128054

Client Sample ID: Matrix Spike Prep Type: Total/NA

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|----------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | ND | | 50.0 | 48.63 | | ug/L | | 97 | 75 - 133 | |
| Ethylbenzene | ND | | 50.0 | 48.78 | | ug/L | | 98 | 79 - 139 | |
| Xylenes, Total | ND | | 150 | 144.7 | | ug/L | | 96 | 74 - 141 | |
| Toluene | ND | | 50.0 | 50.47 | | ug/L | | 101 | 75 - 136 | |

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 97 70 - 130 98 70 - 130 1,2-Dichloroethane-d4 (Surr) Toluene-d8 (Surr) 70 - 130 100 Dibromofluoromethane (Surr) 70 - 130 108

Lab Sample ID: 490-42273-C-9 MSD

Matrix: Water

Analysis Batch: 128054

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|----------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | ND | | 50.0 | 49.45 | | ug/L | | 99 | 75 - 133 | 2 | 17 |
| Ethylbenzene | ND | | 50.0 | 49.20 | | ug/L | | 98 | 79 - 139 | 1 | 15 |
| Xylenes, Total | ND | | 150 | 146.4 | | ug/L | | 98 | 74 - 141 | 1 | 15 |
| Toluene | ND | | 50.0 | 50.80 | | ug/L | | 102 | 75 - 136 | 1 | 15 |
| | | | | | | | | | | | |

MSD MSD %Recovery Qualifier Limits Surrogate 96 70 - 130 4-Bromofluorobenzene (Surr) 1,2-Dichloroethane-d4 (Surr) 96 70 - 130 Toluene-d8 (Surr) 101 70 - 130 Dibromofluoromethane (Surr) 70 - 130 109

MB MB

Lab Sample ID: MB 490-130223/7

Matrix: Water

Analysis Batch: 130223

Client Sample ID: Method Blank Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene ND 1.00 ug/L 12/19/13 15:02 Ethylbenzene ND 1.00 12/19/13 15:02 ug/L Xylenes, Total ND 3.00 ug/L 12/19/13 15:02 Toluene ND 1.00 ug/L 12/19/13 15:02

| | MB | MB | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | | 12/19/13 15:02 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 70 - 130 | | 12/19/13 15:02 | 1 |
| Toluene-d8 (Surr) | 95 | | 70 - 130 | | 12/19/13 15:02 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 70 - 130 | | 12/19/13 15:02 | 1 |

TestAmerica Job ID: 490-42170-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-130223/3

Matrix: Water

Analysis Batch: 130223

Client Sample ID: Lab Control Sample Prep Type: Total/NA

% Poc

| | Spike | LUS | LUG | | | | MREC. | |
|----------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 50.0 | 48.14 | | ug/L | | 96 | 80 - 121 | |
| Ethylbenzene | 50.0 | 53.46 | | ug/L | | 107 | 80 - 130 | |
| Xylenes, Total | 150 | 145.7 | | ug/L | | 97 | 80 - 132 | |
| Toluene | 50.0 | 44.95 | | ug/L | | 90 | 80 - 126 | |
| | | | | | | | | |

100 100

Snika

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 130 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 93 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130223

Lab Sample ID: LCSD 490-130223/4

| | Spike | LCSD | LCSD | | | %Rec. | | RPD | |
|----------------|-------|--------|-------------|-------|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier U | nit D | %Rec | Limits | RPD | Limit | |
| Benzene | 50.0 | 47.19 | ——— u | g/L | 94 | 80 - 121 | 2 | 17 | |
| Ethylbenzene | 50.0 | 52.16 | u | g/L | 104 | 80 - 130 | 2 | 15 | |
| Xylenes, Total | 150 | 143.2 | u | g/L | 95 | 80 - 132 | 2 | 15 | |
| Toluene | 50.0 | 44.99 | u | g/L | 90 | 80 - 126 | 0 | 15 | |

| | LCSD | LCSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 130 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 94 | | 70 - 130 |

Lab Sample ID: 490-42769-B-1 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130223

| _ | Sample | Sample | Spike | MS | MS | | | | %Rec. |
|----------------|--------|-----------|-------|--------|-----------|------|---|------|---------------------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Benzene | ND | | 50.0 | 46.16 | | ug/L | | 92 | 75 - 133 |
| Ethylbenzene | ND | | 50.0 | 50.73 | | ug/L | | 101 | 79 - 139 |
| Xylenes, Total | ND | | 150 | 138.2 | | ug/L | | 92 | 74 - 141 |
| Toluene | ND | | 50.0 | 42.91 | | ug/L | | 86 | 75 ₋ 136 |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 70 - 130 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 94 | | 70 - 130 |

6

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-42769-C-1 MSD

Matrix: Water

Analysis Batch: 130223

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|----------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | ND | | 50.0 | 48.02 | | ug/L | | 96 | 75 - 133 | 4 | 17 |
| Ethylbenzene | ND | | 50.0 | 51.32 | | ug/L | | 103 | 79 - 139 | 1 | 15 |
| Xylenes, Total | ND | | 150 | 140.2 | | ug/L | | 93 | 74 - 141 | 1 | 15 |
| Toluene | ND | | 50.0 | 43.83 | | ug/L | | 88 | 75 - 136 | 2 | 15 |

| | MSD | MSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 70 - 130 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 95 | | 70 - 130 |

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Result Qualifier

Lab Sample ID: MB 490-128047/1-A

Matrix: Water

Analyte

Analysis Batch: 128139

MB MB

Client Sample ID: Method Blank
Prep Type: Total/NA

Prep Batch: 128047

Analyzed

| Naphthalene | ND | 0.100 | ug/L | 12/11/13 10:04 | 12/11/13 19:07 | 1 |
|-------------------------|---------------------|----------|------|----------------|----------------|---------|
| | MB MB | | | | | |
| Surrogate | %Recovery Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| Terphenyl-d14 | 86 | 13 - 120 | | 12/11/13 10:04 | 12/11/13 19:07 | 1 |
| Nitrobenzene-d5 | 71 | 27 - 120 | | 12/11/13 10:04 | 12/11/13 19:07 | 1 |
| 2-Fluorobiphenyl (Surr) | 71 | 29 - 120 | | 12/11/13 10:04 | 12/11/13 19:07 | 1 |

RL

Lab Sample ID: LCS 490-128047/2-A

Matrix: Water

Analysis Batch: 128139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Prepared

Prep Batch: 128047 %Rec.

AnalyteAddedResultQualifierUnitD%RecLimitsNaphthalene1.000.6391ug/L6437 - 120

| | LCS L | .CS | |
|-------------------------|-------------|-----------|----------|
| Surrogate | %Recovery C | Qualifier | Limits |
| Terphenyl-d14 | 77 | | 13 - 120 |
| Nitrobenzene-d5 | 67 | | 27 - 120 |
| 2-Fluorobiphenyl (Surr) | 68 | | 29 - 120 |

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-128431/6

Matrix: Water

Analysis Batch: 128431

Client Sample ID: Method Blank
Prep Type: Total/NA

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 C6-C12
 ND
 100
 ug/L
 12/12/13 15:06
 1

TestAmerica Nashville

Page 12 of 23

12/23/2013

J

5

0

g

9

11

12

13

Dil Fac

Unit

ug/L

Unit

ug/L

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

SDG: SAP 120531 / 241809

Client Sample ID: Method Blank

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 490-128431/6 **Matrix: Water**

Lab Sample ID: LCS 490-128431/4

Analysis Batch: 128431

MB MB

%Recovery Qualifier Surrogate a,a,a-Trifluorotoluene 77

Limits 50 - 150

LCS LCS

DU DU

ND

Result Qualifier

725.5

Result Qualifier

Spike

Added

1000

Prepared

%Rec

D

Analyzed 12/12/13 15:06

Dil Fac

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Prep Type: Total/NA

%Rec.

Limits

39 - 143

Client Sample ID: Duplicate

Prep Type: Total/NA

RPD

NC

Prep Type: Total/NA

RPD

Limit

18

Matrix: Water

Analysis Batch: 128431

Analyte

C6-C12

LCS LCS %Recovery Qualifier

Sample Sample

ND

Result Qualifier

ND

MB MB

96

Limits 50 - 150

Lab Sample ID: 490-42168-E-2 DU

Matrix: Water

a,a,a-Trifluorotoluene

Surrogate

Analysis Batch: 128431

Analyte

C6-C12

Surrogate a,a,a-Trifluorotoluene

DU DU %Recovery Qualifier 74

Limits 50 - 150

Lab Sample ID: MB 490-128584/6

Matrix: Water

Analysis Batch: 128584

мв мв Result Qualifier

Analyte C6-C12

Surrogate a,a,a-Trifluorotoluene

%Recovery

Qualifier 96

Limits 50 - 150

RL

100

LCS LCS

Qualifier

Result

921.0

MDL Unit

ug/L

Unit

ug/L

D

Prepared

Prepared

%Rec

92

Analyzed

Client Sample ID: Method Blank

Analyzed

12/13/13 08:49

Dil Fac 12/13/13 08:49

Dil Fac

Lab Sample ID: LCS 490-128584/5

Matrix: Water

Analysis Batch: 128584

Analyte

C6-C12

Surrogate a,a,a-Trifluorotoluene %Recovery Qualifier 115

LCS LCS

Limits 50 - 150

Spike

Added

1000

Client Sample ID: Lab Control Sample

%Rec.

Limits

39 - 143

Prep Type: Total/NA

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Client Sample ID: Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 128128**

Prep Type: Total/NA

Prep Batch: 128128

Prep Type: Total/NA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 490-42122-E-2 DU

Matrix: Water

| | Sample | Sample | DU | DU | | | | | RPD |
|---------|--------|-----------|--------|-----------|------|---|--|-----|-------|
| Analyte | Result | Qualifier | Result | Qualifier | Unit | D | | RPD | Limit |
| C6-C12 | ND | * | ND | * | ug/L | | | NC | 18 |
| | DU | DU | | | | | | | |

%Recovery Qualifier

Limits Surrogate 50 - 150 a,a,a-Trifluorotoluene 95

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

Lab Sample ID: MB 490-128128/1-A

Matrix: Water

Analysis Batch: 128373

MR MR

| | MID | MID | | | | | | | |
|---------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| C10-C24 | ND | | 100 | | ug/L | | 12/11/13 12:28 | 12/12/13 19:10 | 1 |
| C24-C40 | ND | | 100 | | ug/L | | 12/11/13 12:28 | 12/12/13 19:10 | 1 |

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 64 50 - 150 12/11/13 12:28 12/12/13 19:10

Lab Sample ID: LCS 490-128128/2-A

Matrix: Water

Analysis Batch: 128373

| | Spike | LCS | LCS | | | | %Rec. | |
|---------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| C10-C24 | 1000 | 729.3 | | ug/L | | 73 | 51 - 132 | |

Limits

50 - 150

LCS LCS Surrogate %Recovery Qualifier

Lab Sample ID: 490-42169-G-1-B DU

Matrix: Water

o-Terphenyl

Analysis Batch: 128373

| Client Sample ID: Duplicate |
|-----------------------------|

Prep Type: Total/NA **Prep Batch: 128128**

| 7 manyolo Batom 120010 | | | | | | | | - u.c. | |
|------------------------|--------|-----------|--------|-----------|------|---|------|--------|-------|
| | Sample | Sample | DU | DU | | | | | RPD |
| Analyte | Result | Qualifier | Result | Qualifier | Unit | D | | RPD | Limit |
| C10-C24 | 290 | | 284.0 | | ug/L | | | 2 | 41 |
| C24-C40 | ND | | ND | | ug/L | | | NC | 41 |

DU DU

83

Surrogate %Recovery Qualifier Limits o-Terphenyl 51 50 - 150

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

GC/MS VOA

Analysis Batch: 128054

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------------|-----------|--------------|--------|------------|
| 490-42170-1 | GW-241809-120513-RK-MW-3 | Total/NA | Ground Water | 8260B | |
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | 8260B | |
| 490-42273-B-9 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 490-42273-C-9 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| LCS 490-128054/3 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 490-128054/4 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 490-128054/7 | Method Blank | Total/NA | Water | 8260B | |

Analysis Batch: 130223

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------------|-----------|--------------|--------|------------|
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | 8260B | _ |
| 490-42769-B-1 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 490-42769-C-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| LCS 490-130223/3 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 490-130223/4 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 490-130223/7 | Method Blank | Total/NA | Water | 8260B | |

GC/MS Semi VOA

Prep Batch: 128047

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------|-----------|--------------|--------|------------|
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | 3510C | |
| LCS 490-128047/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 490-128047/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 128139

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------|-----------|--------------|-----------|------------|
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | 8270C SIM | 128047 |
| LCS 490-128047/2-A | Lab Control Sample | Total/NA | Water | 8270C SIM | 128047 |
| MB 490-128047/1-A | Method Blank | Total/NA | Water | 8270C SIM | 128047 |

Analysis Batch: 128455

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|---------------------------|-----------|--------------|-----------|------------|
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | 8270C SIM | 128047 |

GC VOA

Analysis Batch: 128431

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------------|-----------|---------------------|----------|------------|
| 490-42168-E-2 DU | Duplicate | Total/NA | Water | NWTPH-Gx | |
| 490-42170-1 | GW-241809-120513-RK-MW-3 | Total/NA | Ground Water | NWTPH-Gx | |
| LCS 490-128431/4 | Lab Control Sample | Total/NA | Water | NWTPH-Gx | |
| MB 490-128431/6 | Method Blank | Total/NA | Water | NWTPH-Gx | |

Analysis Batch: 128584

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|---------------------------|-----------|---------------------|----------|------------|
| 490-42122-E-2 DU | Duplicate | Total/NA | Water | NWTPH-Gx | |
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | NWTPH-Gx | |
| LCS 490-128584/5 | Lab Control Sample | Total/NA | Water | NWTPH-Gx | |
| MB 490-128584/6 | Method Blank | Total/NA | Water | NWTPH-Gx | |

TestAmerica Nashville

Page 15 of 23

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

GC Semi VOA

Prep Batch: 128128

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------|-----------|---------------------|--------|------------|
| 490-42169-G-1-B DU | Duplicate | Total/NA | Water | 3510C | |
| 490-42170-1 | GW-241809-120513-RK-MW-3 | Total/NA | Ground Water | 3510C | |
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | 3510C | |
| LCS 490-128128/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 490-128128/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 128373

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|---------------------------|-----------|--------------|----------|------------|
| 490-42169-G-1-B DU | Duplicate | Total/NA | Water | NWTPH-Dx | 128128 |
| 490-42170-1 | GW-241809-120513-RK-MW-3 | Total/NA | Ground Water | NWTPH-Dx | 128128 |
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | NWTPH-Dx | 128128 |
| 490-42170-2 | GW-241809-120513-RK-MW-13 | Total/NA | Ground Water | NWTPH-Dx | 128128 |
| LCS 490-128128/2-A | Lab Control Sample | Total/NA | Water | NWTPH-Dx | 128128 |
| MB 490-128128/1-A | Method Blank | Total/NA | Water | NWTPH-Dx | 128128 |

_

8

9

10

11

12

1:

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Lab Sample ID: 490-42170-1

Matrix: Ground Water

Client Sample ID: GW-241809-120513-RK-MW-3

Date Collected: 12/05/13 14:29 Date Received: 12/09/13 09:00

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 128054 | 12/11/13 14:59 | FKG | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 5 mL | 5 mL | 128431 | 12/13/13 00:47 | AMC | TAL NSH |
| Total/NA | Prep | 3510C | | | 950 mL | 1 mL | 128128 | 12/11/13 12:28 | FXM | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | | | 128373 | 12/13/13 00:48 | JML | TAL NSH |

Client Sample ID: GW-241809-120513-RK-MW-13 Lab Sample ID: 490-42170-2

Date Collected: 12/05/13 13:49

Date Received: 12/09/13 09:00

Matrix: Ground Water

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 5 mL | 5 mL | 128054 | 12/11/13 15:24 | FKG | TAL NSH |
| Total/NA | Analysis | 8260B | | 10 | 10 mL | 10 mL | 130223 | 12/19/13 18:37 | MJH | TAL NSH |
| Total/NA | Prep | 3510C | | | 880 mL | 1 mL | 128047 | 12/11/13 10:04 | FXM | TAL NSH |
| Total/NA | Analysis | 8270C SIM | | 1 | | | 128139 | 12/11/13 22:16 | BES | TAL NSH |
| Total/NA | Analysis | 8270C SIM | | 20 | | | 128455 | 12/12/13 15:48 | BES | TAL NSH |
| Total/NA | Analysis | NWTPH-Gx | | 10 | 5 mL | 5 mL | 128584 | 12/13/13 13:01 | AMC | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 1 | | | 128373 | 12/13/13 01:03 | JML | TAL NSH |
| Total/NA | Prep | 3510C | | | 940 mL | 1 mL | 128128 | 12/11/13 12:28 | FXM | TAL NSH |
| Total/NA | Analysis | NWTPH-Dx | | 4 | | | 128373 | 12/13/13 10:40 | JML | TAL NSH |

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

6

0

9

10

Method Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

3

| Method | Method Description | Protocol | Laboratory |
|-----------|---|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL NSH |
| 8270C SIM | Semivolatile Organic Compounds (GC/MS SIM) | SW846 | TAL NSH |
| NWTPH-Gx | Northwest - Volatile Petroleum Products (GC) | NWTPH | TAL NSH |
| NWTPH-Dx | Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup | NWTPH | TAL NSH |

4

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

0

10

1 1

10

1:

Certification Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 11700 NE 160th, Bothell, WA

TestAmerica Job ID: 490-42170-1 SDG: SAP 120531 / 241809

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|------------------------|
| Washington | State Program | 10 | C789 | 07-19-14 |

COOLER RECEIPT FORM

| Cooler Received/Opened On | 12/9/2013 @ 0900 | 490- | 42170 Chain of Cus |
|--|--------------------------------|--------------------------------|--------------------|
| 1. Tracking # 1505 | (last 4 digits, FedEx) | . • | |
| Courier: FedEx IR Gun ID | Raynger | • | |
| 2. Temperature of rep. sample or t | emp blank when opened: | Degrees Celsius | |
| 3. If Item #2 temperature is 0°C or I | ess, was the representative | sample or temp blank frozen? | YES NOVA |
| 4. Were custody seals on outside of | of cooler? | 1 Frank | (ES)NONA |
| If yes, how many and where: | | (7,000) | |
| 5. Were the seals intact, signed, an | d dated correctly? | | YESNONA |
| 6. Were custody papers inside coo | ler? | | ESNONA |
| I certify that I opened the cooler and | d answered questions 1-6 (i | ntial) | 17 |
| 7. Were custody seals on container | rs: YES | NO and Intact | YESNO |
| Were these signed and dated co | rrectly? | | YESNO |
| 8. Packing mat'l used? Bubblewra | p Plastic bag Peanuts Ve | ermiculite Foam Insert Pape | er Other None |
| 9. Cooling process: | lce lce-pack | Ice (direct contact) Dry ice | e Other None |
| 10. Did all containers arrive in good | d condition (unbroken)? | | YESNONA |
| 11. Were all container labels compl | ete (#, date, signed, pres., e | tc)? | (ESNONA |
| 12. Did all container labels and tage | s agree with custody papers | s? | ESNONA |
| 13a. Were VOA vials received? | | | YESNONA |
| b. Was there any observable hea | dspace present in any VOA | vial? | YESNONA |
| 14. Was there a Trip Blank in this c | ooler? YESNONA | If multiple coolers, sequen | ice #_LA |
| I certify that I unloaded the cooler a | nd answered questions 7-14 | 4 (intial) | <u> </u> |
| 15a. On pres'd bottles, did pH test | strips suggest preservation | reached the correct pH level? | YESNO.(NA) |
| b. Did the bottle labels indicate | hat the correct preservative | es were used | YESNONA |
| 16. Was residual chlorine present? | | | YESNO(NA |
| I certify that I checked for chlorine | and pH as per SOP and ansv | wered questions 15-16 (intial) | <u>- </u> |
| 17. Were custody papers properly t | illed out (ink, signed, etc)? | | YESNONA |
| 18. Did you sign the custody paper | s in the appropriate place? | | YESNO,NA |
| 19. Were correct containers used for | or the analysis requested? | | FSNONA |
| 20. Was sufficient amount of samp | le sent in each container? | | YESNONA |
| I certify that I entered this project in | to LIMS and answered ques | stions 17-20 (intial) | - 17 |
| I certify that I attached a label with t | he unique LIMS number to | each container (intial) | <u>Ψ</u> |
| 21. Were there Non-Conformance is | ssues at login? YESNo | Was a NCM generated? YES | Ño# |

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

Loc: 490 **42170**

| Cooler Received/Opened On 12/9/2013 @ 0900 | |
|---|---------------|
| 1. Tracking #(last 4 digits, FedEx) | |
| Courier: FedEx IR Gun ID Raynger | |
| 2. Temperature of rep. sample or temp blank when opened:Degrees Celsius | _ |
| 3. If Item #2 temperature is 0° C or less, was the representative sample or temp blank frozen? | YES NONA |
| 1. Were custody seals on outside of cooler? | (PESNONA |
| If yes, how many and where: | |
| 5. Were the seals intact, signed, and dated correctly? | XESNONA |
| 6. Were custody papers inside cooler? | FESNONA |
| certify that I opened the cooler and answered questions 1-6 (intial) | \mathcal{D} |
| 7. Were custody seals on containers: YES (NO) and Intact | YESNONA |
| Were these signed and dated correctly? | YESNOI |
| 3. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper | Other None |
| O. Cooling process: Lee (direct contact) Dry ice | Other Non |
| 10. Did all containers arrive in good condition (unbroken)? | YESNONA |
| 11. Were all container labels complete (#, date, signed, pres., etc)? | YESNONA |
| 2. Did all container labels and tags agree with custody papers? | (ESNONA |
| 3a. Were VOA vials received? | YES(10)NA |
| b. Was there any observable headspace present in any VOA vial? | YESNONA |
| 14. Was there a Trip Blank in this cooler? YESNO NO. If multiple coolers, sequence | :e # 104 |
| certify that I unloaded the cooler and answered questions 7-14 (intial) | √> |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? | YESNONA |
| b. Did the bottle labels indicate that the correct preservatives were used | ESNONA |
| 6. Was residual chlorine present? | YESNO |
| certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) | <u> </u> |
| 17. Were custody papers properly filled out (ink, signed, etc)? | Æ9NONA |
| 8. Did you sign the custody papers in the appropriate place? | YESNONA |
| 9. Were correct containers used for the analysis requested? | YESNONA |
| 20. Was sufficient amount of sample sent in each container? | YESNONA |
| certify that I entered this project into LIMS and answered questions 17-20 (intial) | <u> </u> |
| certify that I attached a label with the unique LIMS number to each container (intial) | <u> </u> |
| 21. Were there Non-Conformance issues at login? YES(NO) Was a NCM generated? YES(| ⊙ # |

3

4

6

8

10

12

| | | LAB (LOCATION) |) | | | | | | |) | ç | Shell | l Oil | Pro | odı | ıct | s C | ha | ain | O | f C | ust | od | y F | ecc | ord | | | | | | | |
|---|------------------------------------|---|---|---|-----------------|--|-----------------------|------------|----------------|---------|--------------|--|-------------------------|--------|-------------------|--------------|--------------------------|-------------|------------|-------------------|---------------|-----------------|------------------------|----------|----------|----------|----------------|--------------|--|----------------|--------------|-------------|---|
| ☐ CALSC | | | | | | Please (| Check | Appr | opria | te Bo | C | | | Pri | nt Bi | II To | Con | tact | Nar | ne; | | | | n | ICIDI | NT # | (E) | W S | ER۱ | /ICE | S) [| ☐ CHE | CK IF NO INCIDENT # APPLIES |
| SPL H | ouston | · | | ENV. SEF | | 1 | | | A RETAI | | 4 | SHELL F | RETAIL | Ch | rietir | na Ma | اماث | lland | 1 - 24 | 4180 | 9 20- | 12.02 | | Г | 9 2 | 9 | 9 | 5 | 0 | 1 | 7 | DA. | TE: 12/5/13 |
| ☐ XENCC | | | | MOTIVA | SD8-CM | Ì | | CONSL | II TANT | | 1 | LUBES | $\exists \exists$ | | | ici ivit | COIC | | 0 # | | 3. 2 0 | | 446 | | | , , | SAF | | | | | | , |
| TEST A | MERIC | `A (| | | | j S | [2 | _ | = | | <u> </u> | | | 333 | · · | | | · · · · | U) | * | | | <u> </u> | | 1 | | | ···· | | (4444) T | | PA | GE: of |
| OTHE | ٧ (| | | SHELL PI | PELINE | j | | □° | THER _ | | | | | | | 1. | 1 | | | | | l_ | | | | 1 | 2 | 0 | 5 | 3 | 1 | | |
| SAMPLING COM | PANY: | | | | | | | roë co | DDE: | | | | | | | | reet and | | | | | | | Star | - | | GLOB/ | LED NO. | - | | | | |
| Blaine Te | ech S | ervices | | | | | | <u> </u> | | | | | <u> </u> | | | | 1601 tame, Cor | | | | | ĮРН | NE NO.: | W | <u> </u> | E-MAL: | NA | | | | _ | | CONSULTANT PROJECT NO.: |
| 20735 Be | | w Avenue, Carson, lardcopy or PDF Report to): | CA 90746 | | | | | | | | | | _ | CRA | A, Sea | ittle, V | N A | ,-,,- | | | | - | 5-563 | |) | Shell | -US-L | _abD: | ataMs | mage | | | Aworld.com 134605-Puts |
| Lorin Kir | | | | | | | | | | | | | | SAME | | E(S) (Pri | | | | | | | | | | | | | | 2000 | LAB | USE C | INLY |
| TELEPHONE: | | 4455 x 108 | FAX: (310) 637-58 | 202 | E-MAL: | | Ek in | ragini. | ainetec | h zom | | | | 1 | | Pto | in | DA | جهد | ~Y | | | | | | | | | | 0.00 | | | |
| • | | IME (CALENDAR DAYS) | | 502 | <u> </u> | | <u>man</u> | CHE DIE | ansolot | 51.00m | | | | + | | | | | | | | | | | | TED | | VCI | | | 117171717171 | 1-1-1-1-1-1 | |
| STAND | ARD (1 | 4 DAY) 5 DAYS | ☐ 3 DAYS | ☐ 2 DAYS | | 24 HOURS | | | <u> </u> | RESULTS | NEEDED | ON WEEKE | END | - | 1 [| Т | 1 | Т | - 1 | | -1 | | $\overline{}$ | | QUES | | | .156 | > | | - | | |
| ∐ tA-R | WQCB | REPORT FORMAT | UST AGENCY: | | | · | | | 3 | | | | | - |] | 1013 | | | | | - 1 | | | - | oc: | 490 |) | | | | | - 1 | TEMPERATURE ON RECEIPT Cº |
| 1) Please (http://cra LabDatal the EDD | e uplo labed Janag by inc | STRUCTIONS OR Nead the "CRA EQUIS Idupload.craworld.cr gement@CRAworld.cluding "EDD Upload in to the Shell-US-La | 4-file EDD" to the om/equis/default.as com email folder. ded to CRA website | px) and/or set 2) Please in " in the body | dicate that you | ou have up used to de | oloaded eliver the | | STATE EDD N | OT NEED | SEMENT ED | APPLIES FRATE APP REQUESTE | | | Gel Cleanup | TAME | DIPE, IAME, | | | | | | | • | 42 | 17 | 0 | | | | | | |
| | | ort to Shell.Lab.Bil | | n, Shell.resu | lts@crawor | ld.com, ar | nd Shell- | US- | | | | | | | a Gel C | AGT TO | 35, 10 | | | | | | (gn | | | | <u>.</u> | | | | | | |
| See Labo | ratory | o Shell.Lab.Billing@ PM for WA Dept. of | | nod A cleanup | levels for | | | | | | | | ace water) np Blank) | | w/Sillo | B) | es, mil | | | (6020) | | SIM) | 181 (820 | | | | s (8270-SII | | Ξ | Ŧ | | | |
| minimum | detec | tion limits. | SAMPLE ID | | | Г | | 1 | - | RESERV | ATIVE | | | ő | ă | 260 | l ai | 89 | £ | ad (| 88 | 6 | 5 6 | 2 | | | ene | | ٠٠- | 市 | ļ | ļ | |
| EAB USE ONLY | | PROJECT NUMBER | DATE (MMDDYY) | SAMPLER INITIALS | WELL ID | TIME | MATRIX | HCL | HNO3 | HS&U4 | NONE | OTHER | NO, DF CONT. | NWTPH- | NWTPH-Dx w/Silica | BTEX (8260B) | 5 Oxygenates, (8260B) | EDC (8260B) | EDC (8011) | Total Lead (6020) | PCBs (8082) | PAHS (8070 SIM) | VOCS Full list (8260B) | no) lead | | | Napthalenes | трн-о | И МТРН-VРН | NWTPH-EPH | | | Container PID Readings or Laboratory Notes |
| | w - | 241809 – | 128513 | 7th _ | MH-3 | 1429 | WG | × | HINOS | nesor | £ | | 8 | メ | × | У | | | | | | | | | | | | Х | | | | | |
| 4 | ~_ | 2418A - | 1205/3 | pr - | Mw-13 | 1349 | V | X | | | × | Į | 10 | 1 * | X | х | ļ | | | | | - | | | | <u> </u> | У | Х | | | | | |
| | | | 1000 | 1 | | 1 | T | 1 | | | | | | T | | | | | | | | | | Т | | 1 | | | | | | | |
| | | | | | <u> </u> | - | | ╁ | | | | | | ╁ | \vdash | \dashv | | | _ | | | 十 | - | + | _ | + | | | | H | | | |
| | _ | T | | - | | | | | | | | | | ┸ | | _ | | | | | | - | | _ | | . | | | | | | | |
| | | | | | | | | | | | | | | | - | | - 1 | | | | | | | | -1 | | | | | | | | |
| | _ | | | <u> </u> | | | | † | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| | = | - | | - | | <u> </u> | + | - | <u> </u> | | | | - | +- | | \dashv | | | | | -1 | | + | + | + | | | - | | \vdash | | | |
| | _ | _ | | | | | | | | | | | | | | | | | | | \Box | | \perp | | | | | | | | | | · · - · · · · · · · · · · · · · · · · |
| | | | | | | | | | | | | | | 1 | 1 1 | | 1 | | | | | | | | | | 1 | | | | | | |
| | | | | ╡ | | | \vdash | ┼ | | | | | | + | \vdash | \dashv | | \vdash | | - | | - | - | + | + | + | <u> </u> | - | | | | - | |
| | _ | _ | | | _[| 1 | 1 | | | | | 1 | | | | | | | | l | | | - | | | | | | | | | | |
| | | _ | | | | <u> </u> | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Relinquishe | d by: (S | Signature) | | | | 1 | Received | by: (Sig | nature) | | | • | | | | | | | | | | | | | | Date | | | | | | Time: | |
| | | | | | | | | | | 2 | Fin | 1 | w. 2 | | - | | | | | | | | | | | 1 | 2/5 | /13 | | | - 1 | İ | |
| D. # | | <i>r</i> | | | | | Received | l hur (Cia | anotuto) | | Tr TJ | rta. | W.~ | | | <u>de</u> × | | | - | | | | | | | Date | : | <u>'''</u> | | | ~- | Time: | 1 |
| Relinquishe | nu by: (S | ognature) | | | | | URDBIA90 | uy. (olg | juanure) | į | 4 | | | | | 11 | KM | ٧ | | | | | | | | 1 | 2) | X | 3 | a _e | .νο | | 2/1,5 |
| Relinquishe | ed by: (S | Signature) | | | | | Received | by: (Sig | gnature) | | 1 | <i>-</i> | | | | | | | | | | | | | | Date | . \ | (| | | | Time: | |
| | | | | | | 1 | 1 | | | | ¥ | | | | | | | | | | | | | | | 4 | | | | | - 1 | l | |

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-42170-1

SDG Number: SAP 120531 / 241809

List Source: TestAmerica Nashville

Login Number: 42170 List Number: 1

Creator: Buckingham, Paul

| Creator: Buckingnam, Paul | | |
|--|--------|---------|
| Question | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |
| | | |

A

5

6

8

10

12