



**BY ELECTRONIC MAIL**

June 3, 2021

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Please find attached, one document related to Dominion Energy's Chesapeake Energy Center (CEC) industrial landfill. The Major Hillard Library is the public data repository for information submitted by Dominion Energy to the Virginia Department of Environmental Quality relating to the CEC landfill Corrective Action Monitoring Program (CAMP). Throughout the life of the program, Dominion Energy will place on file with the Library copies of associated materials, which should be made available for public viewing until Dominion Energy provides notice. Please include the following document with related CEC materials currently being held for public viewing at the library:

*Summary of Corrective Action Monitoring Data  
2021 1st Semi-Annual Monitoring (March 30 – April 1, 2021)  
Chesapeake Energy Center Landfill - Permit No. 440  
Chesapeake, Virginia*

Thank you for your assistance and please do not hesitate to call Ms. Catherine Smith of Dominion Energy's Environmental Department at (804) 241-2254 should there be any questions and/or comments.

Sincerely,

A handwritten signature in blue ink that reads "Lisa C. Messinger".

Lisa C. Messinger  
Director, Environmental Service

Attachment

*Data Repository  
Chesapeake Energy Center  
Chesapeake, Virginia  
June 3, 2021*

cc (cover letter only):

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**Table 1**  
**Summary of Corrective Action Monitoring Data**  
**2021 1st Semi-Annual Monitoring Event (March 30 - April 1, 2021)**  
**Chesapeake Energy Center Industrial Landfill - Permit #440**  
**Chesapeake, Virginia**

**Groundwater Monitoring Wells**

| Sample ID:<br>Sample Date:                   | MW-5<br>3/30/2021 |      |        |       | MW-5D<br>3/30/2021 |      |        |       | CECW-1<br>3/30/2021 |      |        |       | CECW-1D<br>3/30/2021 |      |        |       | CECW-2<br>3/31/2021 |      |        |       | CECW-2D<br>3/31/2021 |      |        |       | CECW-3<br>4/1/2021 |      |     |             | CECW-3D<br>4/1/2021 |        |       |    |
|--|-------------------|------|--------|-------|--------------------|------|--------|-------|---------------------|------|--------|-------|----------------------|------|--------|-------|---------------------|------|--------|-------|----------------------|------|--------|-------|--------------------|------|-----|-------------|---------------------|--------|-------|----|
|  | Result            | Qual | MDL    | RL    | Result             | Qual | MDL    | RL    | Result              | Qual | MDL    | RL    | Result               | Qual | MDL    | RL    | Result              | Qual | MDL    | RL    | Result               | Qual | MDL    | RL    | Result             | Qual | MDL | RL          | Result              | Qual   | MDL   | RL |
| <b>Primary Performance Parameters (µg/L)</b> |                   |      |        |       |                    |      |        |       |                     |      |        |       |                      |      |        |       |                     |      |        |       |                      |      |        |       |                    |      |     |             |                     |        |       |    |
| Antimony, total                              | < 0.57            | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57               | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57               | U    | 0.57   | 2.0   | NS                 | --   | --  | < 0.57      | U                   | 0.57   | 2.0   |    |
| Antimony, dissolved                          | < 0.57            | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57               | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57               | U    | 0.57   | 2.0   | NS                 | --   | --  | < 0.57      | U                   | 0.57   | 2.0   |    |
| Arsenic, total                               | <b>3.9</b>        | J    | 0.75   | 5.0   | <b>2.5</b>         | J    | 0.75   | 5.0   | <b>8.3</b>          | J    | 0.75   | 5.0   | <b>62</b>            | J    | 0.75   | 5.0   | <b>5.3</b>          | J    | 0.75   | 5.0   | <b>120</b>           | J    | 0.75   | 5.0   | NS                 | --   | --  | <b>200</b>  | J                   | 0.75   | 5.0   |    |
| Arsenic, dissolved                           | <b>4.8</b>        | J    | 0.75   | 5.0   | <b>2.7</b>         | J    | 0.75   | 5.0   | <b>9.3</b>          | J    | 0.75   | 5.0   | <b>50</b>            | J    | 0.75   | 5.0   | <b>2.0</b>          | J    | 0.75   | 5.0   | <b>110</b>           | J    | 0.75   | 5.0   | NS                 | --   | --  | <b>160</b>  | J                   | 0.75   | 5.0   |    |
| Arsenic III (dissolved)                      | < 1.48            | U    | 1.48   | 1.48  | < 1.87             | U    | 1.87   | 1.87  | <b>5.78</b>         | J    | 0.510  | 1.00  | <b>40.7</b>          | J    | 2.04   | 4.00  | <b>1.20</b>         | J    | 0.255  | 0.500 | <b>94.9</b>          | J    | 3.82   | 7.50  | NS                 | --   | --  | < 4.14      | U                   | 4.14   | 7.50  |    |
| Arsenic V (dissolved)                        | <b>1.32</b>       | J    | 1.04   | 1.50  | < 0.345            | UJ   | 0.345  | 0.500 | <b>1.59</b>         | J    | 0.690  | 1.00  | < 2.76               | UJ   | 2.76   | 4.00  | <b>11.8</b>         | J    | 10.4   | 15.0  | < 8.28               | U    | 8.28   | 12.0  | NS                 | --   | --  | <b>131</b>  | J                   | 3.82   | 7.50  |    |
| Beryllium, total                             | < 0.31            | U    | 0.31   | 1.0   | <b>0.41</b>        | J    | 0.31   | 1.0   | <b>0.39</b>         | J    | 0.31   | 1.0   | < 0.31               | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31               | U    | 0.31   | 1.0   | NS                 | --   | --  | < 0.31      | U                   | 0.31   | 1.0   |    |
| Beryllium, dissolved                         | < 0.31            | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31               | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31               | U    | 0.31   | 1.0   | NS                 | --   | --  | < 0.31      | U                   | 0.31   | 1.0   |    |
| Cobalt, total                                | <b>0.71</b>       | J    | 0.19   | 1.0   | <b>6.6</b>         | J    | 0.19   | 1.0   | <b>0.32</b>         | J    | 0.19   | 1.0   | <b>0.93</b>          | J    | 0.19   | 1.0   | <b>2.5</b>          | J    | 0.19   | 1.0   | <b>0.31</b>          | J    | 0.19   | 1.0   | NS                 | --   | --  | <b>0.39</b> | J                   | 0.19   | 1.0   |    |
| Cobalt, dissolved                            | <b>0.61</b>       | J    | 0.19   | 1.0   | <b>7.4</b>         | J    | 0.19   | 1.0   | <b>0.24</b>         | J    | 0.19   | 1.0   | <b>1.0</b>           | J    | 0.19   | 1.0   | <b>0.74</b>         | J    | 0.19   | 1.0   | <b>0.30</b>          | J    | 0.19   | 1.0   | NS                 | --   | --  | <b>0.22</b> | J                   | 0.19   | 1.0   |    |
| Selenium, total                              | <b>0.89</b>       | J    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89               | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89               | U    | 0.89   | 5.0   | NS                 | --   | --  | <b>0.90</b> | J                   | 0.89   | 5.0   |    |
| Selenium, dissolved                          | < 0.89            | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89               | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89               | U    | 0.89   | 5.0   | NS                 | --   | --  | <b>3.1</b>  | J                   | 0.89   | 5.0   |    |
| Sulfide                                      | < 1400            | UJ   | 1400   | 3000  | < 1400             | UJ   | 1400   | 3000  | < 1400              | UJ   | 1400   | 3000  | < 1400               | UJ   | 1400   | 3000  | < 1400              | U    | 1400   | 3000  | < 1400               | U    | 1400   | 3000  | NS                 | --   | --  | < 1400      | UH                  | 1400   | 3000  |    |
| Sulfide, dissolved                           | < 1400            | UJ   | 1400   | 3000  | < 1400             | UJ   | 1400   | 3000  | < 1400              | UJ   | 1400   | 3000  | < 1400               | UJ   | 1400   | 3000  | < 1400              | U    | 1400   | 3000  | < 1400               | U    | 1400   | 3000  | NS                 | --   | --  | < 1400      | UH                  | 1400   | 3000  |    |
| beta-BHC                                     | < 0.0044          | U    | 0.0044 | 0.048 | < 0.0044           | U    | 0.0044 | 0.048 | < 0.0044            | U    | 0.0044 | 0.048 | < 0.0044             | U    | 0.0044 | 0.048 | < 0.0044            | U    | 0.0044 | 0.048 | < 0.0044             | U    | 0.0044 | 0.048 | NS                 | --   | --  | < 0.0045    | UH                  | 0.0045 | 0.049 |    |
| <b>Performance Parameters (µg/L)</b>         |                   |      |        |       |                    |      |        |       |                     |      |        |       |                      |      |        |       |                     |      |        |       |                      |      |        |       |                    |      |     |             |                     |        |       |    |
| Iron, total                                  | <b>3600</b>       | J    | 47     | 100   | <b>8400</b>        | J    | 47     | 100   | <b>7600</b>         | J    | 47     | 100   | <b>8400</b>          | J    | 47     | 100   | <b>15000</b>        | J    | 47     | 100   | <b>9300</b>          | J    | 47     | 100   | NS                 | --   | --  | <b>250</b>  | J                   | 47     | 100   |    |
| Iron, dissolved                              | <b>3300</b>       | J    | 47     | 100   | <b>9000</b>        | J    | 47     | 100   | <b>7900</b>         | J    | 47     | 100   | <b>8100</b>          | J    | 47     | 100   | <b>13000</b>        | J    | 47     | 100   | <b>9000</b>          | J    | 47     | 100   | NS                 | --   | --  | <b>54</b>   | J                   | 47     | 100   |    |
| Manganese                                    | <b>29</b>         | J    | 2.1    | 5.0   | <b>290</b>         | J    | 2.1    | 5.0   | <b>140</b>          | J    | 2.1    | 5.0   | <b>360</b>           | J    | 2.1    | 5.0   | <b>140</b>          | J    | 2.1    | 5.0   | <b>280</b>           | J    | 2.1    | 5.0   | NS                 | --   | --  | <b>16</b>   | J                   | 2.1    | 5.0   |    |
| <b>Field Measurements</b>                    |                   |      |        |       |                    |      |        |       |                     |      |        |       |                      |      |        |       |                     |      |        |       |                      |      |        |       |                    |      |     |             |                     |        |       |    |
| Dissolved Oxygen (mg/L)                      | 1.90              |      | 0.01   | 0.01  | 2.22               |      | 0.01   | 0.01  | 1.69                |      | 0.01   | 0.01  | 1.06                 |      | 0.01   | 0.01  | 0.44                |      | 0.01   | 0.01  | 0.29                 |      | 0.01   | 0.01  | --                 | --   | --  | 0.62        |                     | 0.01   | 0.01  |    |
| Oxidation Reduction Potential (mV)           | 32.6              |      | 0.1    | 0.1   | 64.7               |      | 0.1    | 0.1   | -4.5                |      | 0.1    | 0.1   | -12.7                |      | 0.1    | 0.1   | -35.4               |      | 0.1    | 0.1   | -89.3                |      | 0.1    | 0.1   | --                 | --   | --  | -121.0      |                     | 0.1    | 0.1   |    |
| pH (S.U.)                                    | 6.18              |      | 0.01   | 0.01  | 6.21               |      | 0.01   | 0.01  | 6.48                |      | 0.01   | 0.01  | 6.54                 |      | 0.01   | 0.01  | 6.06                |      | 0.01   | 0.01  | 6.57                 |      | 0.01   | 0.01  | --                 | --   | --  | 7.34        |                     | 0.01   | 0.01  |    |
| Specific Conductance (uS/cm)                 | 223.7             |      | 0.1    | 0.1   | 2506               |      | 0.1    | 0.1   | 2248                |      | 0.1    | 0.1   | 17661                |      | 0.1    | 0.1   | 5385                |      | 0.1    | 0.1   | 24249                |      | 0.1    | 0.1   | --                 | --   | --  | 1241        |                     | 0.1    | 0.1   |    |
| Temperature (Degrees Celsius)                | 14.6              |      | 0.01   | 0.01  | 17.7               |      | 0.01   | 0.01  | 15.9                |      | 0.01   | 0.01  | 18.4                 |      | 0.01   | 0.01  | 16.0                |      | 0.01   | 0.01  | 18.3                 |      | 0.01   | 0.01  | --                 | --   | --  | 16.8        |                     | 0.01   | 0.01  |    |
| Turbidity (NTU)                              | 9.28              |      | 0.1    | 0.1   | 6.98               |      | 0.1    | 0.1   | 9.66                |      | 0.1    | 0.1   | 26.85                |      | 0.1    | 0.1   | 55.28               |      | 0.1    | 0.1   | 5.18                 |      | 0.1    | 0.1   | --                 | --   | --  | 4.06        |                     | 0.1    | 0.1   |    |

**Groundwater Monitoring Wells**

| Sample ID:<br>Sample Date:                   | CECW-6I<br>4/1/2021 |      |        |       | CECW-6D<br>4/1/2021 |      |        |       | CECW-8<br>4/1/2021 |      |        |       | CECW-8D<br>4/1/2021 |      |        |       | CECW-10R<br>4/1/2021 |      |        |       | CECW-15<br>4/1/2021 |      |        |       | PO-8<br>3/31/2021 |      |        |       | PO-8D<br>3/31/2021 |      |        |       |
|--|---------------------|------|--------|-------|---------------------|------|--------|-------|--------------------|------|--------|-------|---------------------|------|--------|-------|----------------------|------|--------|-------|---------------------|------|--------|-------|-------------------|------|--------|-------|--------------------|------|--------|-------|
|  | Result              | Qual | MDL    | RL    | Result              | Qual | MDL    | RL    | Result             | Qual | MDL    | RL    | Result              | Qual | MDL    | RL    | Result               | Qual | MDL    | RL    | Result              | Qual | MDL    | RL    | Result            | Qual | MDL    | RL    | Result             | Qual | MDL    | RL    |
| <b>Primary Performance Parameters (µg/L)</b> |                     |      |        |       |                     |      |        |       |                    |      |        |       |                     |      |        |       |                      |      |        |       |                     |      |        |       |                   |      |        |       |                    |      |        |       |
| Antimony, total                              | < 0.57              | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57               | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57            | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   |
| Antimony, dissolved                          | < 0.57              | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57               | U    | 0.57   | 2.0   | < 0.57              | U    | 0.57   | 2.0   | < 0.57            | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   |
| Arsenic, total                               | <b>220</b>          | J    | 0.75   | 5.0   | <b>85</b>           | J    | 0.75   | 5.0   | <b>3.0</b>         | J    | 0.75   | 5.0   | <b>24</b>           | J    | 0.75   | 5.0   | <b>55</b>            | J    | 0.75   | 5.0   | <b>1.6</b>          | J    | 0.75   | 5.0   | <b>16</b>         | J    | 0.75   | 5.0   | <b>2.7</b>         | J    | 0.75   | 5.0   |
| Arsenic, dissolved                           | <b>210</b>          | J    | 0.75   | 5.0   | <b>86</b>           | J    | 0.75   | 5.0   | <b>3.1</b>         | J    | 0.75   | 5.0   | <b>13</b>           | J    | 0.75   | 5.0   | <b>49</b>            | J    | 0.75   | 5.0   | < 0.75              | U    | 0.75   | 5.0   | <b>10</b>         | J    | 0.75   | 5.0   | <b>1.6</b>         | J    | 0.75   | 5.0   |
| Arsenic III (dissolved)                      | <b>223</b>          | J    | 5.10   | 10.0  | <b>79.5</b>         | J    | 5.10   | 10.0  | <b>1.08</b>        | J    | 0.255  | 0.500 | <b>8.65</b>         | J    | 0.255  | 0.500 | <b>33.7</b>          | J    | 0.765  | 1.50  | <b>2.16</b>         | J    | 0.765  | 1.50  | <b>6.13</b>       | J    | 0.255  | 0.500 | <b>0.989</b>       | J    | 0.255  | 0.500 |
| Arsenic V (dissolved)                        | < 10.4              | U    | 10.4   | 15.0  | <b>10.6</b>         | J    | 10.4   | 15.0  | < 0.345            | U    | 0.345  | 0.500 | <b>0.895</b>        | J    | 0.345  | 0.500 | < 0.765              | U    | 0.765  | 1.50  | < 2.07              | U    | 2.07   | 3.00  | < 2.07            | U    | 2.07   | 3.00  | < 2.07             | U    | 2.07   | 3.00  |
| Beryllium, total                             | < 0.31              | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31               | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31            | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   |
| Beryllium, dissolved                         | < 0.31              | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31               | U    | 0.31   | 1.0   | < 0.31              | U    | 0.31   | 1.0   | < 0.31            | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   |
| Cobalt, total                                | <b>2.2</b>          | J    | 0.19   | 1.0   | <b>5.1</b>          | J    | 0.19   | 1.0   | <b>0.93</b>        | J    | 0.19   | 1.0   | <b>0.66</b>         | J    | 0.19   | 1.0   | <b>0.35</b>          | J    | 0.19   | 1.0   | <b>1.5</b>          | J    | 0.19   | 1.0   | < 0.19            | U    | 0.19   | 1.0   | <b>2.1</b>         | J    | 0.19   | 1.0   |
| Cobalt, dissolved                            | <b>1.8</b>          | J    | 0.19   | 1.0   | <b>5.1</b>          | J    | 0.19   | 1.0   | <b>0.42</b>        | J    | 0.19   | 1.0   | <b>0.65</b>         | J    | 0.19   | 1.0   | < 0.19               | U    | 0.19   | 1.0   | <b>1.5</b>          | J    | 0.19   | 1.0   | < 0.19            | U    | 0.19   | 1.0   | <b>2.2</b>         | J    | 0.19   | 1.0   |
| Selenium, total                              | < 0.89              | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89               | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89            | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   |
| Selenium, dissolved                          | < 0.89              | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89               | U    | 0.89   | 5.0   | < 0.89              | U    | 0.89   | 5.0   | < 0.89            | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   |
| Sulfide                                      | < 1400              | UH   | 1400   | 3000  | < 1400              | UH   | 1400   | 3000  | <b>57000</b>       | H    | 1400   | 3000  | < 1400              | UH   | 1400   | 3000  | < 1400               | UH   | 1400   | 3000  | < 1400              | UH   | 1400   | 3000  | < 1400            | UH   | 1400   | 3000  | <b>2000</b>        | J    | 1400   | 3000  |
| Sulfide, dissolved                           | < 1400              | UH   | 1400   | 3000  | < 1400              | UH   | 1400   | 3000  | <b>57000</b>       | H    | 1400   | 3000  | < 1400              | UH   | 1400   | 3000  | < 1400               | UH   | 1400   | 3000  | < 1400              | UH   | 1400   | 3000  | < 1400            | UH   | 1400   | 3000  | <b>2000</b>        | J    | 1400   | 3000  |
| beta-BHC                                     | < 0.0044            | UH   | 0.0044 | 0.048 | < 0.0046            | UH   | 0.0046 | 0.050 | < 0.0047           | UH   | 0.0047 | 0.052 | < 0.0045            | UH   | 0.0045 | 0.049 | < 0.0044             | UH   | 0.0044 | 0.048 | < 0.0044            | UH   | 0.0044 | 0.048 | < 0.0044          | UH   | 0.0044 | 0.048 | < 0.0044           | U    | 0.0044 | 0.048 |
| <b>Performance Parameters (µg/L)</b>         |                     |      |        |       |                     |      |        |       |                    |      |        |       |                     |      |        |       |                      |      |        |       |                     |      |        |       |                   |      |        |       |                    |      |        |       |
| Iron, total                                  | <b>10000</b>        | J    | 47     | 100   | <b>1200</b>         |      |        |       |                    |      |        |       |                     |      |        |       |                      |      |        |       |                     |      |        |       |                   |      |        |       |                    |      |        |       |

**Table 1**  
**Summary of Corrective Action Monitoring Data**  
**2021 1st Semi-Annual Monitoring Event (March 30 - April 1, 2021)**  
**Chesapeake Energy Center Industrial Landfill - Permit #440**  
**Chesapeake, Virginia**

**Groundwater Monitoring Wells**

| Sample ID:                                   | PO-10<br>4/1/2021 |      |        |       | PO-10D<br>4/1/2021 |      |        |       | CECW-1 DUP<br>3/30/2021 |      |        |       | FIELD BLANK<br>3/30/2021 |      |        |       |
|--|-------------------|------|--------|-------|--------------------|------|--------|-------|-------------------------|------|--------|-------|--------------------------|------|--------|-------|
|  | Result            | Qual | MDL    | RL    | Result             | Qual | MDL    | RL    | Result                  | Qual | MDL    | RL    | Result                   | Qual | MDL    | RL    |
| <b>Primary Performance Parameters (µg/L)</b> |                   |      |        |       |                    |      |        |       |                         |      |        |       |                          |      |        |       |
| Antimony, total                              | < 0.57            | U    | 0.57   | 2.0   | 1.2                | J    | 0.57   | 2.0   | < 0.57                  | U    | 0.57   | 2.0   | < 0.57                   | U    | 0.57   | 2.0   |
| Antimony, dissolved                          | < 0.57            | U    | 0.57   | 2.0   | < 0.57             | U    | 0.57   | 2.0   | < 0.57                  | U    | 0.57   | 2.0   | < 0.57                   | U    | 0.57   | 2.0   |
| Arsenic, total                               | 110               |      | 0.75   | 5.0   | 110                |      | 0.75   | 5.0   | 9.0                     |      | 0.75   | 5.0   | < 0.75                   | U    | 0.75   | 5.0   |
| Arsenic, dissolved                           | 100               |      | 0.75   | 5.0   | 94                 |      | 0.75   | 5.0   | 11                      |      | 0.75   | 5.0   | < 0.75                   | U    | 0.75   | 5.0   |
| Arsenic III (dissolved)                      | 71.6              |      | 2.04   | 4.00  | 69.4               |      | 1.53   | 3.00  | 6.56                    |      | 0.510  | 1.00  | 0.429                    | J    | 0.255  | 0.500 |
| Arsenic V (dissolved)                        | < 2.04            | U    | 2.04   | 4.00  | < 2.07             | U    | 2.07   | 3.00  | 1.92                    | J    | 0.690  | 1.00  | < 0.345                  | UJ   | 0.345  | 0.500 |
| Beryllium, total                             | < 0.31            | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   | < 0.31                  | U    | 0.31   | 1.0   | < 0.31                   | U    | 0.31   | 1.0   |
| Beryllium, dissolved                         | < 0.31            | U    | 0.31   | 1.0   | < 0.31             | U    | 0.31   | 1.0   | < 0.31                  | U    | 0.31   | 1.0   | < 0.31                   | U    | 0.31   | 1.0   |
| Cobalt, total                                | < 0.19            | U    | 0.19   | 1.0   | 0.61               | J    | 0.19   | 1.0   | 0.26                    | J    | 0.19   | 1.0   | < 0.19                   | U    | 0.19   | 1.0   |
| Cobalt, dissolved                            | < 0.19            | U    | 0.19   | 1.0   | < 0.19             | U    | 0.19   | 1.0   | 0.24                    | J    | 0.19   | 1.0   | < 0.19                   | U    | 0.19   | 1.0   |
| Selenium, total                              | < 0.89            | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   | < 0.89                  | U    | 0.89   | 5.0   | < 0.89                   | U    | 0.89   | 5.0   |
| Selenium, dissolved                          | < 0.89            | U    | 0.89   | 5.0   | < 0.89             | U    | 0.89   | 5.0   | < 0.89                  | U    | 0.89   | 5.0   | < 0.89                   | U    | 0.89   | 5.0   |
| Sulfide                                      | 3100              | H    | 1400   | 3000  | < 1400             | UH   | 1400   | 3000  | < 1400                  | UJ   | 1400   | 3000  | < 1400                   | UJ   | 1400   | 3000  |
| Sulfide, dissolved                           | 3100              | H    | 1400   | 3000  | < 1400             | UH   | 1400   | 3000  | < 1400                  | UJ   | 1400   | 3000  | < 1400                   | UJ   | 1400   | 3000  |
| beta-BHC                                     | < 0.0044          | UH   | 0.0044 | 0.048 | < 0.0045           | UH   | 0.0045 | 0.049 | < 0.0046                | U    | 0.0046 | 0.051 | < 0.0044                 | UH   | 0.0044 | 0.048 |
| <b>Performance Parameters (µg/L)</b>         |                   |      |        |       |                    |      |        |       |                         |      |        |       |                          |      |        |       |
| Iron, total                                  | 320               |      | 47     | 100   | 2600               |      | 47     | 100   | 6700                    |      | 47     | 100   | < 47                     | U    | 47     | 100   |
| Iron, dissolved                              | 110               |      | 47     | 100   | 240                |      | 47     | 100   | 7800                    |      | 47     | 100   | < 47                     | U    | 47     | 100   |
| Manganese                                    | 25                |      | 2.1    | 5.0   | 7.5                |      | 2.1    | 5.0   | 140                     |      | 2.1    | 5.0   | < 2.1                    | U    | 2.1    | 5.0   |
| <b>Field Measurements</b>                    |                   |      |        |       |                    |      |        |       |                         |      |        |       |                          |      |        |       |
| Dissolved Oxygen (mg/L)                      | 0.58              |      | 0.01   | 0.01  | 0.79               |      | 0.01   | 0.01  | --                      |      | --     | --    | --                       |      | --     | --    |
| Oxidation Reduction Potential (mV)           | -118.7            |      | 0.1    | 0.1   | -279.2             |      | 0.1    | 0.1   | --                      |      | --     | --    | --                       |      | --     | --    |
| pH (S.U.)                                    | 7.31              |      | 0.01   | 0.01  | 8.02               |      | 0.01   | 0.01  | --                      |      | --     | --    | --                       |      | --     | --    |
| Specific Conductance (uS/cm)                 | 1954              |      | 0.1    | 0.1   | 1242               |      | 0.1    | 0.1   | --                      |      | --     | --    | --                       |      | --     | --    |
| Temperature (Degrees Celsius)                | 13.2              |      | 0.01   | 0.01  | 15.9               |      | 0.01   | 0.01  | --                      |      | --     | --    | --                       |      | --     | --    |
| Turbidity (NTU)                              | 9.73              |      | 0.1    | 0.1   | 1.68               |      | 0.1    | 0.1   | --                      |      | --     | --    | --                       |      | --     | --    |

**Surface Water**

| Sample ID:<br>Sample Date:           | SW-1<br>4/1/2021 |      |        |       | SW-2<br>4/1/2021 |      |        |       | SW-3<br>4/1/2021 |      |        |       | SW-4<br>4/1/2021 |      |        |       | SW-1 DUP<br>4/1/2021 |      |        |       | FIELD BLANK<br>4/1/2021 |      |        |       |
|--------------------------------------|------------------|------|--------|-------|------------------|------|--------|-------|------------------|------|--------|-------|------------------|------|--------|-------|----------------------|------|--------|-------|-------------------------|------|--------|-------|
|                                      | Result           | Qual | MDL    | RL    | Result           | Qual | MDL    | RL    | Result           | Qual | MDL    | RL    | Result           | Qual | MDL    | RL    | Result               | Qual | MDL    | RL    | Result                  | Qual | MDL    | RL    |
| <b>Primary Constituents (µg/L)</b>   |                  |      |        |       |                  |      |        |       |                  |      |        |       |                  |      |        |       |                      |      |        |       |                         |      |        |       |
| Antimony, total                      | < 2.9            | U    | 2.9    | 10    | < 2.9            | U    | 2.9    | 10    | < 2.9            | U    | 2.9    | 10    | < 0.57           | U    | 0.57   | 2.0   | < 2.9                | U    | 2.9    | 10    | < 0.57                  | U    | 0.57   | 2.0   |
| Arsenic, total                       | < 3.8            | U    | 3.8    | 25    | < 3.8            | U    | 3.8    | 25    | < 3.8            | U    | 3.8    | 25    | 1.6              | J    | 0.75   | 5.0   | < 3.8                | U    | 3.8    | 25    | < 0.75                  | U    | 0.75   | 5.0   |
| Arsenic III (dissolved)              | 0.646            | J    | 0.510  | 1.00  | 0.334            | J    | 0.255  | 0.500 | < 0.255          | U    | 0.255  | 0.500 | < 0.255          | U    | 0.255  | 0.500 | < 0.255              | U    | 0.255  | 0.500 | < 0.255                 | U    | 0.255  | 0.500 |
| Arsenic V (dissolved)                | 2.40             | J    | 2.07   | 3.00  | < 0.345          | U    | 0.345  | 0.500 | 0.758            | J    | 0.690  | 1.00  | 0.484            | J    | 0.345  | 0.500 | 0.637                |      | 0.345  | 0.500 | < 0.345                 | U    | 0.345  | 0.500 |
| Beryllium, total                     | < 1.5            | U    | 1.5    | 5.0   | < 1.5            | U    | 1.5    | 5.0   | < 1.5            | U    | 1.5    | 5.0   | < 0.31           | U    | 0.31   | 1.0   | < 1.5                | U    | 1.5    | 5.0   | < 0.31                  | U    | 0.31   | 1.0   |
| Cobalt, total                        | 1.1              | J    | 0.95   | 5.0   | < 0.95           | U    | 0.95   | 5.0   | < 0.95           | U    | 0.95   | 5.0   | 0.68             | J    | 0.19   | 1.0   | < 0.95               | U    | 0.95   | 5.0   | < 0.19                  | U    | 0.19   | 1.0   |
| Selenium, total                      | < 4.5            | U    | 4.5    | 25    | < 4.5            | U    | 4.5    | 25    | < 4.5            | U    | 4.5    | 25    | < 0.89           | U    | 0.89   | 5.0   | < 4.5                | U    | 4.5    | 25    | < 0.89                  | U    | 0.89   | 5.0   |
| Sulfide                              | < 1400           | U    | 1400   | 3000  | < 1400           | U    | 1400   | 3000  | < 1400           | U    | 1400   | 3000  | < 1400           | UH   | 1400   | 3000  | < 1400               | U    | 1400   | 3000  | 2500                    | J    | 1400   | 3000  |
| beta-BHC                             | < 0.0049         | U    | 0.0049 | 0.054 | < 0.0047         | U    | 0.0047 | 0.051 | < 0.0046         | U    | 0.0046 | 0.050 | < 0.0044         | UH   | 0.0044 | 0.048 | < 0.0044             | U    | 0.0044 | 0.048 | < 0.0045                | U    | 0.0045 | 0.049 |
| <b>Performance Parameters (µg/L)</b> |                  |      |        |       |                  |      |        |       |                  |      |        |       |                  |      |        |       |                      |      |        |       |                         |      |        |       |
| Iron, total                          | 1800             |      | 240    | 500   | 860              |      | 240    | 500   | 660              |      | 240    | 500   | 670              |      | 47     | 100   | 1400                 |      | 240    | 500   | < 47                    | U    | 47     | 100   |
| Total Suspended Solids               | 32               |      | 1.0    | 4.0   | 29               |      | 1.0    | 4.0   | 8.0              |      | 1.0    | 4.0   | 10               | H    | 1.0    | 4.0   | 24                   |      | 1.0    | 4.0   | < 1.0                   | U    | 1.0    | 4.0   |
| <b>Field Measurements</b>            |                  |      |        |       |                  |      |        |       |                  |      |        |       |                  |      |        |       |                      |      |        |       |                         |      |        |       |
| Dissolved Oxygen (mg/L)              | 6.74             |      | 0.01   | 0.01  | 8.91             |      | 0.01   | 0.01  | 10.20            |      | 0.01   | 0.01  | 9.10             |      | 0.01   | 0.01  | --                   |      | --     | --    | --                      |      | --     | --    |
| Oxidation Reduction Potential (mV)   | 204.5            |      | 0.1    | 0.1   | 150.5            |      | 0.1    | 0.1   | 230.3            |      | 0.1    | 0.1   | 233.7            |      | 0.1    | 0.1   | --                   |      | --     | --    | --                      |      | --     | --    |
| pH (S.U.)                            | 7.03             |      | 0.01   | 0.01  | 7.03             |      | 0.01   | 0.01  | 6.88             |      | 0.01   | 0.01  | 6.42             |      | 0.01   | 0.01  | --                   |      | --     | --    | --                      |      | --     | --    |
| Specific Conductance (uS/cm)         | 15872            |      | 0.1    | 0.1   | 16652            |      | 0.1    | 0.1   | 14443            |      | 0.1    | 0.1   | 11394            |      | 0.1    | 0.1   | --                   |      | --     | --    | --                      |      | --     | --    |
| Temperature (Degrees Celsius)        | 13.3             |      | 0.01   | 0.01  | 14.9             |      | 0.01   | 0.01  | 11.8             |      | 0.01   | 0.01  | 12.8             |      | 0.01   | 0.01  | --                   |      | --     | --    | --                      |      | --     | --    |
| Turbidity (NTU)                      | 31.01            |      | 0.1    | 0.1   | 64.18            |      | 0.1    | 0.1   | 15.44            |      | 0.1    | 0.1   | 8.16             |      | 0.1    | 0.1   | --                   |      | --     | --    | --                      |      | --     | --    |

**Notes:**

MDL = Method detection limit  
 RL = Reporting limit  
 µg/L = Microgram per liter  
 mg/L = Milligram per liter

< = Less than or equal to reporting MDL  
 NS = Not sampled, insufficient water  
 mV = Millivolt  
 S.U. = Standard Unit

uS/cm = MicroSiemen per centimeter  
 NTU = Nephelometric Turbidity Unit  
**Bold font** = Detected concentration

**Laboratory Data Qualifiers (Qual):**

U = The analyte analyzed for, but was not detected above the level for the reported sample quantitation limit.  
 J = Quantitation is approximate due to limitations identified during data validation.  
 UJ = The analyte was not detected, but the reporting limit may or may not be higher due to a bias identified during data validation.  
 H = Sample was prepped or analyzed beyond the specified holding time.