

**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: HEART OF THE VALLEY MSD WW TRTMNT FAC  
 Contact Address: 801 Thilmany Rd  
 Kaukauna, WI 54130  
 Facility Contact: Brian Helminger, District Director  
 Phone Number: (920) 766-5731  
 Reporting Period: 05/01/2017 - 05/31/2017  
 Form Due Date: 06/21/2017  
 Permit Number: 0031232

Date Received:  
 DOC: 380636  
 FIN: 6375  
 FID: 445005220  
 Region: Northeast Region  
 Permit Drafter: Richard P Sachs  
 Reviewer: Mark K. Corbett  
 Office: Oshkosh

|                       | Sample Point | 001        | 701        | 701             | 701                     | 701                        |
|-----------------------|--------------|------------|------------|-----------------|-------------------------|----------------------------|
|                       | Description  | Effluent   | Influent   | Influent        | Influent                | Influent                   |
|                       | Parameter    | 211        | 211        | 66              | 457                     | 87                         |
|                       | Description  | Flow Rate  | Flow Rate  | BOD5, Total     | Suspended Solids, Total | Cadmium, Total Recoverable |
|                       | Units        | MGD        | MGD        | mg/L            | mg/L                    | ug/L                       |
|                       | Sample Type  | CONTINUOUS | CONTINUOUS | 24 HR FLOW PROP | 24 HR FLOW PROP         | 24 HR FLOW PROP            |
|                       | Frequency    | DAILY      | DAILY      | 5/WEEK          | 5/WEEK                  | MONTHLY                    |
| <b>Sample Results</b> | <b>Day 1</b> | 12.531     | 12.531     | 75              | 100                     |                            |
|                       | <b>2</b>     | 9.700      | 9.700      | 106             | 104                     | <1.3                       |
|                       | <b>3</b>     | 8.800      | 8.800      | 138             | 140                     |                            |
|                       | <b>4</b>     | 7.700      | 7.700      | 154             | 104                     |                            |
|                       | <b>5</b>     | 7.300      | 7.300      | 134             | 128                     |                            |
|                       | <b>6</b>     | 6.400      | 6.400      | 144             | 124                     |                            |
|                       | <b>7</b>     | 6.780      | 6.780      | 211             | 144                     |                            |
|                       | <b>8</b>     | 6.487      | 6.487      | 186             | 180                     |                            |
|                       | <b>9</b>     | 5.952      | 5.952      | 170             | 204                     |                            |
|                       | <b>10</b>    | 6.029      | 6.029      | 188             | 252                     |                            |
|                       | <b>11</b>    | 5.871      | 5.871      | 333             | 324                     |                            |
|                       | <b>12</b>    | 5.761      | 5.761      | 182             | 136                     |                            |
|                       | <b>13</b>    | 5.551      | 5.551      | 420             | 256                     |                            |
|                       | <b>14</b>    | 5.655      | 5.655      | 211             | 208                     |                            |
|                       | <b>15</b>    | 5.657      | 5.657      | 227             | 188                     |                            |
|                       | <b>16</b>    | 5.913      | 5.913      | 223             | 220                     |                            |
|                       | <b>17</b>    | 5.736      | 5.736      | 270             | 212                     |                            |
|                       | <b>18</b>    | 6.026      | 6.026      | 207             | 224                     |                            |
|                       | <b>19</b>    | 5.508      | 5.508      | 194             | 140                     |                            |
|                       | <b>20</b>    | 5.937      | 5.937      | 185             | 176                     |                            |
|                       | <b>21</b>    | 6.857      | 6.857      | 189             | 188                     |                            |
|                       | <b>22</b>    | 6.180      | 6.180      | 188             | 144                     |                            |
|                       | <b>23</b>    | 7.436      | 7.436      | 216             | 252                     |                            |
|                       | <b>24</b>    | 7.664      | 7.664      | 203             | 148                     |                            |
|                       | <b>25</b>    | 6.600      | 6.600      | 196             | 204                     |                            |
|                       | <b>26</b>    | 6.300      | 6.300      | 184             | 196                     |                            |
|                       | <b>27</b>    | 5.343      | 5.400      | 160             | 168                     |                            |
|                       | <b>28</b>    | 5.976      | 6.400      | 156             | 180                     |                            |
|                       | <b>29</b>    | 5.323      | 6.467      | 164             | 184                     |                            |
|                       | <b>30</b>    | 5.361      | 6.064      | 191             | 176                     |                            |
|                       | <b>31</b>    | 5.579      | 5.859      | 230             | 248                     |                            |

|                           |                             |            |             |               |                         |                            |
|---------------------------|-----------------------------|------------|-------------|---------------|-------------------------|----------------------------|
|                           | <b>Sample Point</b>         | 001        | 701         | 701           | 701                     | 701                        |
|                           | <b>Description</b>          | Effluent   | Influent    | Influent      | Influent                | Influent                   |
|                           | <b>Parameter</b>            | 211        | 211         | 66            | 457                     | 87                         |
|                           | <b>Description</b>          | Flow Rate  | Flow Rate   | BOD5, Total   | Suspended Solids, Total | Cadmium, Total Recoverable |
|                           | <b>Units</b>                | MGD        | MGD         | mg/L          | mg/L                    | ug/L                       |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 6.57783871 | 6.661967742 | 194.677419355 | 182.322580645           | 0                          |
|                           | <b>Daily Max</b>            | 12.531     | 12.531      | 420           | 324                     | <1.3                       |
|                           | <b>Daily Max - Variable</b> |            |             |               |                         |                            |
|                           | <b>Daily Min</b>            | 5.323      | 5.4         | 75            | 100                     | <1.3                       |
|                           | <b>Geometric Mean -</b>     |            |             |               |                         |                            |
|                           | <b>Week 1 Avg</b>           |            |             |               |                         |                            |
|                           | <b>Week 2 Avg</b>           |            |             |               |                         |                            |
|                           | <b>Week 3 Avg</b>           |            |             |               |                         |                            |
|                           | <b>Week 4 Avg</b>           |            |             |               |                         |                            |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |            |             |               |                         |                            |
|                           | <b>Daily Max</b>            |            |             |               |                         |                            |
|                           | <b>Daily Max - Variable</b> |            |             |               |                         |                            |
|                           | <b>Daily Min</b>            |            |             |               |                         |                            |
|                           | <b>Geometric Mean -</b>     |            |             |               |                         |                            |
|                           | <b>Weekly Avg</b>           |            |             |               |                         |                            |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |            |             |               |                         | 1.3                        |
|                           | <b>LOQ</b>                  |            |             |               |                         | 5                          |
|                           | <b>QC Exceedance</b>        | N          | N           | Y             | N                       | N                          |
|                           | <b>Lab Certification</b>    |            |             | 445005220     | 445005220               | 405132750                  |

|                       |                     |                             |                           |                         |                           |                         |
|-----------------------|---------------------|-----------------------------|---------------------------|-------------------------|---------------------------|-------------------------|
|                       | <b>Sample Point</b> | 701                         | 701                       | 701                     | 701                       | 701                     |
|                       | <b>Description</b>  | Influent                    | Influent                  | Influent                | Influent                  | Influent                |
|                       | <b>Parameter</b>    | 133                         | 147                       | 264                     | 315                       | 553                     |
|                       | <b>Description</b>  | Chromium, Total Recoverable | Copper, Total Recoverable | Lead, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable |
|                       | <b>Units</b>        | ug/L                        | ug/L                      | ug/L                    | ug/L                      | ug/L                    |
|                       | <b>Sample Type</b>  | 24 HR FLOW PROP             | 24 HR FLOW PROP           | 24 HR FLOW PROP         | 24 HR FLOW PROP           | 24 HR FLOW PROP         |
|                       | <b>Frequency</b>    | MONTHLY                     | MONTHLY                   | MONTHLY                 | MONTHLY                   | MONTHLY                 |
| <b>Sample Results</b> | <b>Day 1</b>        |                             |                           |                         |                           |                         |
|                       | <b>2</b>            | 4.5                         | 38.1                      | <4.3                    | 2.7                       | 58.4                    |
|                       | <b>3</b>            |                             |                           |                         |                           |                         |
|                       | <b>4</b>            |                             |                           |                         |                           |                         |
|                       | <b>5</b>            |                             |                           |                         |                           |                         |
|                       | <b>6</b>            |                             |                           |                         |                           |                         |
|                       | <b>7</b>            |                             |                           |                         |                           |                         |
|                       | <b>8</b>            |                             |                           |                         |                           |                         |
|                       | <b>9</b>            |                             |                           |                         |                           |                         |
|                       | <b>10</b>           |                             |                           |                         |                           |                         |
|                       | <b>11</b>           |                             |                           |                         |                           |                         |
|                       | <b>12</b>           |                             |                           |                         |                           |                         |
|                       | <b>13</b>           |                             |                           |                         |                           |                         |
|                       | <b>14</b>           |                             |                           |                         |                           |                         |
|                       | <b>15</b>           |                             |                           |                         |                           |                         |
|                       | <b>16</b>           |                             |                           |                         |                           |                         |
|                       | <b>17</b>           |                             |                           |                         |                           |                         |
|                       | <b>18</b>           |                             |                           |                         |                           |                         |
|                       | <b>19</b>           |                             |                           |                         |                           |                         |
|                       | <b>20</b>           |                             |                           |                         |                           |                         |
|                       | <b>21</b>           |                             |                           |                         |                           |                         |
|                       | <b>22</b>           |                             |                           |                         |                           |                         |
|                       | <b>23</b>           |                             |                           |                         |                           |                         |
|                       | <b>24</b>           |                             |                           |                         |                           |                         |
|                       | <b>25</b>           |                             |                           |                         |                           |                         |
|                       | <b>26</b>           |                             |                           |                         |                           |                         |
|                       | <b>27</b>           |                             |                           |                         |                           |                         |
|                       | <b>28</b>           |                             |                           |                         |                           |                         |
|                       | <b>29</b>           |                             |                           |                         |                           |                         |
|                       | <b>30</b>           |                             |                           |                         |                           |                         |
|                       | <b>31</b>           |                             |                           |                         |                           |                         |

|                           |                             |                             |                           |                         |                           |                         |
|---------------------------|-----------------------------|-----------------------------|---------------------------|-------------------------|---------------------------|-------------------------|
|                           | <b>Sample Point</b>         | 701                         | 701                       | 701                     | 701                       | 701                     |
|                           | <b>Description</b>          | Influent                    | Influent                  | Influent                | Influent                  | Influent                |
|                           | <b>Parameter</b>            | 133                         | 147                       | 264                     | 315                       | 553                     |
|                           | <b>Description</b>          | Chromium, Total Recoverable | Copper, Total Recoverable | Lead, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable |
|                           | <b>Units</b>                | ug/L                        | ug/L                      | ug/L                    | ug/L                      | ug/L                    |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 4.5                         | 38.1                      | 0                       | 2.7                       | 58.4                    |
|                           | <b>Daily Max</b>            | 4.5                         | 38.1                      | <4.3                    | 2.7                       | 58.4                    |
|                           | <b>Daily Max - Variable</b> |                             |                           |                         |                           |                         |
|                           | <b>Daily Min</b>            | 4.5                         | 38.1                      | <4.3                    | 2.7                       | 58.4                    |
|                           | <b>Geometric Mean -</b>     |                             |                           |                         |                           |                         |
|                           | <b>Week 1 Avg</b>           |                             |                           |                         |                           |                         |
|                           | <b>Week 2 Avg</b>           |                             |                           |                         |                           |                         |
|                           | <b>Week 3 Avg</b>           |                             |                           |                         |                           |                         |
|                           | <b>Week 4 Avg</b>           |                             |                           |                         |                           |                         |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                             |                           |                         |                           |                         |
|                           | <b>Daily Max</b>            |                             |                           |                         |                           |                         |
|                           | <b>Daily Max - Variable</b> |                             |                           |                         |                           |                         |
|                           | <b>Daily Min</b>            |                             |                           |                         |                           |                         |
|                           | <b>Geometric Mean -</b>     |                             |                           |                         |                           |                         |
|                           | <b>Weekly Avg</b>           |                             |                           |                         |                           |                         |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 2.5                         | 6.3                       | 4.3                     | 2.6                       | 9.3                     |
|                           | <b>LOQ</b>                  | 10                          | 20                        | 13                      | 10                        | 40                      |
|                           | <b>QC Exceedance</b>        | N                           | N                         | N                       | N                         | N                       |
|                           | <b>Lab Certification</b>    | 405132750                   | 405132750                 | 405132750               | 405132750                 | 405132750               |

|                       |                     |                 |                         |          |                |                          |
|-----------------------|---------------------|-----------------|-------------------------|----------|----------------|--------------------------|
|                       | <b>Sample Point</b> | 001             | 001                     | 001      | 001            | 001                      |
|                       | <b>Description</b>  | Effluent        | Effluent                | Effluent | Effluent       | Effluent                 |
|                       | <b>Parameter</b>    | 649             | 457                     | 377      | 204            | 112                      |
|                       | <b>Description</b>  | CBOD5           | Suspended Solids, Total | pH Field | Fecal Coliform | Chlorine, Total Residual |
|                       | <b>Units</b>        | mg/L            | mg/L                    | su       | #/100ml        | ug/L                     |
|                       | <b>Sample Type</b>  | 24 HR FLOW PROP | 24 HR FLOW PROP         | GRAB     | GRAB           | GRAB                     |
|                       | <b>Frequency</b>    | DAILY           | 5/WEEK                  | 5/WEEK   | WEEKLY         | 5/WEEK                   |
| <b>Sample Results</b> | <b>Day 1</b>        | 4               | 8                       | 7.7      |                | <100                     |
|                       | <b>2</b>            | 4               | 8                       | 7.1      | 80             | <100                     |
|                       | <b>3</b>            | 5               | 7                       | 7.1      |                | <100                     |
|                       | <b>4</b>            | 6               | 9                       | 7.2      |                | <100                     |
|                       | <b>5</b>            | 4               | 7                       | 7.9      |                | <100                     |
|                       | <b>6</b>            | 5               | 10                      | 7.5      |                |                          |
|                       | <b>7</b>            | 5               | 8                       | 7.3      |                |                          |
|                       | <b>8</b>            | 5               | 8                       | 7.2      |                | <100                     |
|                       | <b>9</b>            | 4               | 6                       | 7.3      | 75             | <100                     |
|                       | <b>10</b>           | 7               | 12                      | 7.3      |                | <100                     |
|                       | <b>11</b>           | 11              | 18                      | 7.3      |                | <100                     |
|                       | <b>12</b>           | 6               | 7                       | 7.0      |                | <100                     |
|                       | <b>13</b>           | 5               | 6                       | 7.2      |                |                          |
|                       | <b>14</b>           | 6               | 11                      | 7.3      |                |                          |
|                       | <b>15</b>           | 6               | 9                       | 7.7      |                | <100                     |
|                       | <b>16</b>           | 5               | 8                       | 7.4      | 8              | <100                     |
|                       | <b>17</b>           | 6               | 6                       | 7.7      |                | <100                     |
|                       | <b>18</b>           | 7               | 13                      | 7.3      |                | <100                     |
|                       | <b>19</b>           | 5               | 8                       | 7.8      |                | <100                     |
|                       | <b>20</b>           | 3               | 6                       | 7.6      |                |                          |
|                       | <b>21</b>           | 5               | 7                       | 7.7      |                |                          |
|                       | <b>22</b>           | 4               | 8                       | 7.4      |                | <100                     |
|                       | <b>23</b>           | 5               | 6                       | 7.4      | 10             | <100                     |
|                       | <b>24</b>           | 4               | 9                       | 7.4      |                | <100                     |
|                       | <b>25</b>           | 4               | 8                       | 7.6      |                | <100                     |
|                       | <b>26</b>           | 4               | 11                      | 7.6      |                | <100                     |
|                       | <b>27</b>           | 4               | 8                       | 7.6      |                |                          |
|                       | <b>28</b>           | 3               | 7                       | 7.5      |                |                          |
|                       | <b>29</b>           | 3               | 8                       | 7.5      |                | <100                     |
|                       | <b>30</b>           | 8               | 15                      | 7.5      |                | <100                     |
|                       | <b>31</b>           | 4               | 6                       | 7.6      | 280            | <100                     |

|                           |                             |             |   |                         |   |             |   |                |   |                          |   |
|---------------------------|-----------------------------|-------------|---|-------------------------|---|-------------|---|----------------|---|--------------------------|---|
|                           | <b>Sample Point</b>         | 001         |   | 001                     |   | 001         |   | 001            |   | 001                      |   |
|                           | <b>Description</b>          | Effluent    |   | Effluent                |   | Effluent    |   | Effluent       |   | Effluent                 |   |
|                           | <b>Parameter</b>            | 649         |   | 457                     |   | 377         |   | 204            |   | 112                      |   |
|                           | <b>Description</b>          | CBOD5       |   | Suspended Solids, Total |   | pH Field    |   | Fecal Coliform |   | Chlorine, Total Residual |   |
|                           | <b>Units</b>                | mg/L        |   | mg/L                    |   | su          |   | #/100ml        |   | ug/L                     |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 5.064516129 |   | 8.64516129              |   | 7.441935484 |   | 90.6           |   | 0                        |   |
|                           | <b>Daily Max</b>            | 11          |   | 18                      |   | 7.9         |   | 280            |   | <100                     |   |
|                           | <b>Daily Max - Variable</b> |             |   |                         |   |             |   |                |   |                          |   |
|                           | <b>Daily Min</b>            | 3           |   | 6                       |   | 7           |   | 8              |   | <100                     |   |
|                           | <b>Geometric Mean -</b>     |             |   |                         |   |             |   | 42.235715299   |   |                          |   |
|                           | <b>Week 1 Avg</b>           | 4.714285714 |   | 8.142857143             |   |             |   |                |   |                          |   |
|                           | <b>Week 2 Avg</b>           | 6.285714286 |   | 9.714285714             |   |             |   |                |   |                          |   |
|                           | <b>Week 3 Avg</b>           | 5.285714286 |   | 8.142857143             |   |             |   |                |   |                          |   |
|                           | <b>Week 4 Avg</b>           | 4           |   | 8.142857143             |   |             |   |                |   |                          |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          | 25          | 0 | 30                      | 0 |             |   |                |   |                          |   |
|                           | <b>Daily Max</b>            |             |   |                         |   | 9           | 0 |                |   | 38                       | 0 |
|                           | <b>Daily Max - Variable</b> |             |   |                         |   |             |   |                |   |                          |   |
|                           | <b>Daily Min</b>            |             |   |                         |   | 6           | 0 |                |   |                          |   |
|                           | <b>Geometric Mean -</b>     |             |   |                         |   |             |   | 400            | 0 |                          |   |
|                           | <b>Weekly Avg</b>           | 40          | 0 | 45                      | 0 |             |   |                |   |                          |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |             |   |                         |   |             |   |                |   | 100                      |   |
|                           | <b>LOQ</b>                  |             |   |                         |   |             |   |                |   | 100                      |   |
|                           | <b>QC Exceedance</b>        | N           |   | N                       |   | N           |   | N              |   | N                        |   |
|                           | <b>Lab Certification</b>    | 445005220   |   | 445005220               |   |             |   |                |   |                          |   |

|                       |                     |                   |                                 |                            |                             |                           |
|-----------------------|---------------------|-------------------|---------------------------------|----------------------------|-----------------------------|---------------------------|
|                       | <b>Sample Point</b> | 001               | 001                             | 001                        | 001                         | 001                       |
|                       | <b>Description</b>  | Effluent          | Effluent                        | Effluent                   | Effluent                    | Effluent                  |
|                       | <b>Parameter</b>    | 388               | 789                             | 87                         | 133                         | 147                       |
|                       | <b>Description</b>  | Phosphorus, Total | Nitrogen, Ammonia (NH3-N) Total | Cadmium, Total Recoverable | Chromium, Total Recoverable | Copper, Total Recoverable |
|                       | <b>Units</b>        | mg/L              | mg/L                            | ug/L                       | ug/L                        | ug/L                      |
|                       | <b>Sample Type</b>  | 24 HR FLOW PROP   | 24 HR FLOW PROP                 | 24 HR FLOW PROP            | 24 HR FLOW PROP             | 24 HR FLOW PROP           |
|                       | <b>Frequency</b>    | 5/WEEK            | 5/WEEK                          | MONTHLY                    | MONTHLY                     | MONTHLY                   |
| <b>Sample Results</b> | <b>Day 1</b>        | 0.15              | 0.1                             |                            |                             |                           |
|                       | <b>2</b>            | 0.18              | 0.1                             | <1.3                       | <2.5                        | <6.3                      |
|                       | <b>3</b>            | 0.20              | 0.4                             |                            |                             |                           |
|                       | <b>4</b>            | 0.20              | 0.3                             |                            |                             |                           |
|                       | <b>5</b>            | 0.21              |                                 |                            |                             |                           |
|                       | <b>6</b>            | 0.23              |                                 |                            |                             |                           |
|                       | <b>7</b>            | 0.25              | 0.3                             |                            |                             |                           |
|                       | <b>8</b>            | 0.22              | 0.2                             |                            |                             |                           |
|                       | <b>9</b>            | 0.22              | 0.3                             |                            |                             |                           |
|                       | <b>10</b>           | 0.39              | 0.4                             |                            |                             |                           |
|                       | <b>11</b>           | 0.49              | 0.3                             |                            |                             |                           |
|                       | <b>12</b>           | 0.37              |                                 |                            |                             |                           |
|                       | <b>13</b>           | 0.28              |                                 |                            |                             |                           |
|                       | <b>14</b>           | 0.32              | 0.3                             |                            |                             |                           |
|                       | <b>15</b>           | 0.76              | 0.5                             |                            |                             |                           |
|                       | <b>16</b>           | 0.26              | 0.4                             |                            |                             |                           |
|                       | <b>17</b>           | 0.27              | 0.3                             |                            |                             |                           |
|                       | <b>18</b>           | 0.42              | 0.2                             |                            |                             |                           |
|                       | <b>19</b>           | 0.31              |                                 |                            |                             |                           |
|                       | <b>20</b>           | 0.28              |                                 |                            |                             |                           |
|                       | <b>21</b>           | 0.41              | 0.3                             |                            |                             |                           |
|                       | <b>22</b>           | 0.36              | 0.3                             |                            |                             |                           |
|                       | <b>23</b>           | 0.31              | 0.3                             |                            |                             |                           |
|                       | <b>24</b>           | 0.32              | 0.2                             |                            |                             |                           |
|                       | <b>25</b>           | 0.43              | 0.2                             |                            |                             |                           |
|                       | <b>26</b>           | 0.37              |                                 |                            |                             |                           |
|                       | <b>27</b>           | 0.40              |                                 |                            |                             |                           |
|                       | <b>28</b>           | 0.32              | 0.2                             |                            |                             |                           |
|                       | <b>29</b>           | 0.29              | 0.3                             |                            |                             |                           |
|                       | <b>30</b>           | 0.47              | 1.6                             |                            |                             |                           |
|                       | <b>31</b>           | 0.31              | 0.3                             |                            |                             |                           |

|                           | Sample Point                | 001               |   | 001                             |   | 001                        |  | 001                         |  | 001                       |  |
|---------------------------|-----------------------------|-------------------|---|---------------------------------|---|----------------------------|--|-----------------------------|--|---------------------------|--|
|                           | Description                 | Effluent          |   | Effluent                        |   | Effluent                   |  | Effluent                    |  | Effluent                  |  |
|                           | Parameter                   | 388               |   | 789                             |   | 87                         |  | 133                         |  | 147                       |  |
|                           | Description                 | Phosphorus, Total |   | Nitrogen, Ammonia (NH3-N) Total |   | Cadmium, Total Recoverable |  | Chromium, Total Recoverable |  | Copper, Total Recoverable |  |
|                           | Units                       | mg/L              |   | mg/L                            |   | ug/L                       |  | ug/L                        |  | ug/L                      |  |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0.322580645       |   | 0.339130435                     |   | 0                          |  | 0                           |  | 0                         |  |
|                           | <b>Daily Max</b>            | 0.76              |   | 1.6                             |   | <1.3                       |  | <2.5                        |  | <6.3                      |  |
|                           | <b>Daily Max - Variable</b> |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Daily Min</b>            | 0.15              |   | 0.1                             |   | <1.3                       |  | <2.5                        |  | <6.3                      |  |
|                           | <b>Geometric Mean -</b>     |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Week 1 Avg</b>           |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Week 2 Avg</b>           |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Week 3 Avg</b>           |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Week 4 Avg</b>           |                   |   |                                 |   |                            |  |                             |  |                           |  |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          | 1                 | 0 | 11                              | 0 |                            |  |                             |  |                           |  |
|                           | <b>Daily Max</b>            |                   |   | 17                              | 0 |                            |  |                             |  |                           |  |
|                           | <b>Daily Max - Variable</b> |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Daily Min</b>            |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Geometric Mean -</b>     |                   |   |                                 |   |                            |  |                             |  |                           |  |
|                           | <b>Weekly Avg</b>           |                   |   |                                 |   |                            |  |                             |  |                           |  |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 0.026             |   | 0.045                           |   | 1.3                        |  | 2.5                         |  | 6.3                       |  |
|                           | <b>LOQ</b>                  | 0.087             |   | 0.15                            |   | 5                          |  | 10                          |  | 20                        |  |
|                           | <b>QC Exceedance</b>        | N                 |   | N                               |   | N                          |  | N                           |  | N                         |  |
|                           | <b>Lab Certification</b>    | 445005220         |   | 445005220                       |   | 405132750                  |  | 405132750                   |  | 405132750                 |  |



|                       |                     |                         |                           |                         |                  |                             |
|-----------------------|---------------------|-------------------------|---------------------------|-------------------------|------------------|-----------------------------|
|                       | <b>Sample Point</b> | 001                     | 001                       | 001                     | 101              | 601                         |
|                       | <b>Description</b>  | Effluent                | Effluent                  | Effluent                | Effluent Reuse   | River Monitoring            |
|                       | <b>Parameter</b>    | 264                     | 315                       | 553                     | 671              | 400                         |
|                       | <b>Description</b>  | Lead, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable | Flow Unregulated | WLA Previous Day River Flow |
|                       | <b>Units</b>        | ug/L                    | ug/L                      | ug/L                    | MGD              | cfs                         |
|                       | <b>Sample Type</b>  | 24 HR FLOW PROP         | 24 HR FLOW PROP           | 24 HR FLOW PROP         | CONTINUOUS       | GAUGE STN                   |
|                       | <b>Frequency</b>    | MONTHLY                 | MONTHLY                   | MONTHLY                 | DAILY            | DAILY                       |
| <b>Sample Results</b> | <b>Day 1</b>        |                         |                           |                         | 0.00             | 11900                       |
|                       | <b>2</b>            | <4.3                    | 3.2                       | 12.2                    | 0.00             | 13600                       |
|                       | <b>3</b>            |                         |                           |                         | 0.00             | 13800                       |
|                       | <b>4</b>            |                         |                           |                         | 0.00             | 13800                       |
|                       | <b>5</b>            |                         |                           |                         | 0.00             | 13300                       |
|                       | <b>6</b>            |                         |                           |                         | 0.00             | 13100                       |
|                       | <b>7</b>            |                         |                           |                         | 0.00             | 13000                       |
|                       | <b>8</b>            |                         |                           |                         | 0.00             | 13100                       |
|                       | <b>9</b>            |                         |                           |                         | 0.00             | 12900                       |
|                       | <b>10</b>           |                         |                           |                         | 0.00             | 12500                       |
|                       | <b>11</b>           |                         |                           |                         | 0.00             | 12000                       |
|                       | <b>12</b>           |                         |                           |                         | 0.00             | 11000                       |
|                       | <b>13</b>           |                         |                           |                         | 0.00             | 10600                       |
|                       | <b>14</b>           |                         |                           |                         | 0.00             | 10500                       |
|                       | <b>15</b>           |                         |                           |                         | 0.00             | 10400                       |
|                       | <b>16</b>           |                         |                           |                         | 0.00             | 10400                       |
|                       | <b>17</b>           |                         |                           |                         | 0.00             | 9710                        |
|                       | <b>18</b>           |                         |                           |                         | 0.00             | 8910                        |
|                       | <b>19</b>           |                         |                           |                         | 0.00             | 8090                        |
|                       | <b>20</b>           |                         |                           |                         | 0.00             | 8120                        |
|                       | <b>21</b>           |                         |                           |                         | 0.00             | 8450                        |
|                       | <b>22</b>           |                         |                           |                         | 0.00             | 8290                        |
|                       | <b>23</b>           |                         |                           |                         | 0.00             | 7030                        |
|                       | <b>24</b>           |                         |                           |                         | 0.00             | 6320                        |
|                       | <b>25</b>           |                         |                           |                         | 0.00             | 6320                        |
|                       | <b>26</b>           |                         |                           |                         | 0.00             | 6580                        |
|                       | <b>27</b>           |                         |                           |                         | 0.057            | 6620                        |
|                       | <b>28</b>           |                         |                           |                         | 0.424            | 6710                        |
|                       | <b>29</b>           |                         |                           |                         | 1.144            | 6760                        |
|                       | <b>30</b>           |                         |                           |                         | 0.703            | 6790                        |
|                       | <b>31</b>           |                         |                           |                         | 0.280            | 6770                        |

|                           |                             |                         |                           |                         |                  |                             |
|---------------------------|-----------------------------|-------------------------|---------------------------|-------------------------|------------------|-----------------------------|
|                           | <b>Sample Point</b>         | 001                     | 001                       | 001                     | 101              | 601                         |
|                           | <b>Description</b>          | Effluent                | Effluent                  | Effluent                | Effluent Reuse   | River Monitoring            |
|                           | <b>Parameter</b>            | 264                     | 315                       | 553                     | 671              | 400                         |
|                           | <b>Description</b>          | Lead, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable | Flow Unregulated | WLA Previous Day River Flow |
|                           | <b>Units</b>                | ug/L                    | ug/L                      | ug/L                    | MGD              | cfs                         |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0                       | 3.2                       | 12.2                    | 0.084129032      | 9915.161290323              |
|                           | <b>Daily Max</b>            | <4.3                    | 3.2                       | 12.2                    | 1.144            | 13800                       |
|                           | <b>Daily Max - Variable</b> |                         |                           |                         |                  |                             |
|                           | <b>Daily Min</b>            | <4.3                    | 3.2                       | 12.2                    | 0                | 6320                        |
|                           | <b>Geometric Mean -</b>     |                         |                           |                         |                  |                             |
|                           | <b>Week 1 Avg</b>           |                         |                           |                         |                  |                             |
|                           | <b>Week 2 Avg</b>           |                         |                           |                         |                  |                             |
|                           | <b>Week 3 Avg</b>           |                         |                           |                         |                  |                             |
|                           | <b>Week 4 Avg</b>           |                         |                           |                         |                  |                             |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                         |                           |                         |                  |                             |
|                           | <b>Daily Max</b>            |                         |                           |                         |                  |                             |
|                           | <b>Daily Max - Variable</b> |                         |                           |                         |                  |                             |
|                           | <b>Daily Min</b>            |                         |                           |                         |                  |                             |
|                           | <b>Geometric Mean -</b>     |                         |                           |                         |                  |                             |
|                           | <b>Weekly Avg</b>           |                         |                           |                         |                  |                             |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 4.3                     | 2.6                       | 9.3                     |                  |                             |
|                           | <b>LOQ</b>                  | 13                      | 10                        | 40                      |                  |                             |
|                           | <b>QC Exceedance</b>        | N                       | N                         | N                       | N                | N                           |
|                           | <b>Lab Certification</b>    | 405132750               | 405132750                 | 405132750               |                  |                             |

|                       |                     |                                   |                             |                                |                                |                                |
|-----------------------|---------------------|-----------------------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|
|                       | <b>Sample Point</b> | 601                               | 601                         | 006                            | 006                            | 006                            |
|                       | <b>Description</b>  | River Monitoring                  | River Monitoring            | WLA CBOD5 Discharge Compliance | WLA CBOD5 Discharge Compliance | WLA CBOD5 Discharge Compliance |
|                       | <b>Parameter</b>    | 399                               | 401                         | 545                            | 12                             | 889                            |
|                       | <b>Description</b>  | WLA Previous 4 Day Avg River Flow | WLA Previous Day River Temp | WLA CBOD5 Value                | WLA Adjusted Value             | WLA CBOD5 Discharged           |
|                       | <b>Units</b>        | cfs                               | degF                        | lbs/day                        | lbs/day                        | lbs/day                        |
|                       | <b>Sample Type</b>  | CALCULATED                        | CALCULATED                  | SEE TABLE                      | CALCULATED                     | CALCULATED                     |
|                       | <b>Frequency</b>    | DAILY                             | DAILY                       | DAILY                          | DAILY                          | DAILY                          |
| <b>Sample Results</b> | <b>Day 1</b>        | 10375                             | 50                          | 5568                           | 7684                           | 418                            |
|                       | <b>2</b>            | 10725                             | 49                          | 5568                           | 7684                           | 331                            |
|                       | <b>3</b>            | 11475                             | 49                          | 5568                           | 7684                           | 400                            |
|                       | <b>4</b>            | 12350                             | 50                          | 5568                           | 7684                           | 399                            |
|                       | <b>5</b>            | 13275                             | 52                          | 5568                           | 7684                           | 219                            |
|                       | <b>6</b>            | 13625                             | 53                          | 5568                           | 7684                           | 262                            |
|                       | <b>7</b>            | 13500                             | 53                          | 5568                           | 7684                           | 280                            |
|                       | <b>8</b>            | 13300                             | 53                          | 5568                           | 7684                           | 244                            |
|                       | <b>9</b>            | 13125                             | 54                          | 5568                           | 7684                           | 203                            |
|                       | <b>10</b>           | 13025                             | 54                          | 5568                           | 7684                           | 365                            |
|                       | <b>11</b>           | 12875                             | 55                          | 5568                           | 7684                           | 514                            |
|                       | <b>12</b>           | 12625                             | 56                          | 5568                           | 7684                           | 285                            |
|                       | <b>13</b>           | 12100                             | 56                          | 5568                           | 7684                           | 236                            |
|                       | <b>14</b>           | 11525                             | 58                          | 5568                           | 7684                           | 259                            |
|                       | <b>15</b>           | 11025                             | 58                          | 5568                           | 7684                           | 305                            |
|                       | <b>16</b>           | 10625                             | 53                          | 5568                           | 7684                           | 266                            |
|                       | <b>17</b>           | 10475                             | 62                          | 5568                           | 7684                           | 275                            |
|                       | <b>18</b>           | 10253                             | 63                          | 5568                           | 7684                           | 348                            |
|                       | <b>19</b>           | 9855                              | 64                          | 5568                           | 7684                           | 211                            |
|                       | <b>20</b>           | 9278                              | 61                          | 5568                           | 7684                           | 172                            |
|                       | <b>21</b>           | 8708                              | 58                          | 5568                           | 7684                           | 265                            |
|                       | <b>22</b>           | 8393                              | 58                          | 5568                           | 7684                           | 220                            |
|                       | <b>23</b>           | 8238                              | 58                          | 5568                           | 7684                           | 308                            |
|                       | <b>24</b>           | 7973                              | 59                          | 5568                           | 7684                           | 278                            |
|                       | <b>25</b>           | 7523                              | 58                          | 5568                           | 7684                           | 235                            |
|                       | <b>26</b>           | 6990                              | 58                          | 5568                           | 7684                           | 197                            |
|                       | <b>27</b>           | 6563                              | 62                          | 5568                           | 7684                           | 164                            |
|                       | <b>28</b>           | 6460                              | 64                          | 5568                           | 7684                           | 149                            |
|                       | <b>29</b>           | 6558                              | 64                          | 5568                           | 7684                           | 146                            |
|                       | <b>30</b>           | 6668                              | 64                          | 5568                           | 7684                           | 354                            |
|                       | <b>31</b>           | 6720                              | 63                          | 5568                           | 7684                           | 170                            |

|                           | Sample Point                | 601                               | 601                         | 006                            | 006                            | 006                            |
|---------------------------|-----------------------------|-----------------------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|
|                           | Description                 | River Monitoring                  | River Monitoring            | WLA CBOD5 Discharge Compliance | WLA CBOD5 Discharge Compliance | WLA CBOD5 Discharge Compliance |
|                           | Parameter                   | 399                               | 401                         | 545                            | 12                             | 889                            |
|                           | Description                 | WLA Previous 4 Day Avg River Flow | WLA Previous Day River Temp | WLA CBOD5 Value                | WLA Adjusted Value             | WLA CBOD5 Discharged           |
|                           | Units                       | cfs                               | degF                        | lbs/day                        | lbs/day                        | lbs/day                        |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 10200.161290323                   | 57.064516129                | 5568                           | 7684                           | 273.483870968                  |
|                           | <b>Daily Max</b>            | 13625                             | 64                          | 5568                           | 7684                           | 514                            |
|                           | <b>Daily Max - Variable</b> |                                   |                             |                                |                                | 514                            |
|                           | <b>Daily Min</b>            | 6460                              | 49                          | 5568                           | 7684                           | 146                            |
|                           | <b>Geometric Mean -</b>     |                                   |                             |                                |                                |                                |
|                           | <b>Week 1 Avg</b>           |                                   |                             |                                |                                |                                |
|                           | <b>Week 2 Avg</b>           |                                   |                             |                                |                                |                                |
|                           | <b>Week 3 Avg</b>           |                                   |                             |                                |                                |                                |
|                           | <b>Week 4 Avg</b>           |                                   |                             |                                |                                |                                |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                   |                             |                                |                                |                                |
|                           | <b>Daily Max</b>            |                                   |                             |                                |                                |                                |
|                           | <b>Daily Max - Variable</b> |                                   |                             |                                |                                | 0 0                            |
|                           | <b>Daily Min</b>            |                                   |                             |                                |                                |                                |
|                           | <b>Geometric Mean -</b>     |                                   |                             |                                |                                |                                |
|                           | <b>Weekly Avg</b>           |                                   |                             |                                |                                |                                |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                   |                             |                                |                                |                                |
|                           | <b>LOQ</b>                  |                                   |                             |                                |                                |                                |
|                           | <b>QC Exceedance</b>        | N                                 | N                           | N                              | N                              | N                              |
|                           | <b>Lab Certification</b>    |                                   |                             |                                |                                |                                |

|                       |                     |                                |                                   |
|-----------------------|---------------------|--------------------------------|-----------------------------------|
|                       | <b>Sample Point</b> | 006                            | 006                               |
|                       | <b>Description</b>  | WLA CBOD5 Discharge Compliance | WLA CBOD5 Discharge Compliance    |
|                       | <b>Parameter</b>    | 543                            | 542                               |
|                       | <b>Description</b>  | WLA 7 Day Sum Of WLA Values    | WLA 7 Day Sum Of CBOD5 Discharged |
|                       | <b>Units</b>        | lbs/day                        | lbs/day                           |
|                       | <b>Sample Type</b>  | CALCULATED                     | CALCULATED                        |
|                       | <b>Frequency</b>    | DAILY                          | DAILY                             |
| <b>Sample Results</b> | <b>Day 1</b>        |                                |                                   |
|                       | <b>2</b>            |                                |                                   |
|                       | <b>3</b>            |                                |                                   |
|                       | <b>4</b>            |                                |                                   |
|                       | <b>5</b>            |                                |                                   |
|                       | <b>6</b>            |                                |                                   |
|                       | <b>7</b>            | 38976                          | 2309                              |
|                       | <b>8</b>            | 38976                          | 2135                              |
|                       | <b>9</b>            | 38976                          | 2007                              |
|                       | <b>10</b>           | 38976                          | 1972                              |
|                       | <b>11</b>           | 38976                          | 2087                              |
|                       | <b>12</b>           | 38976                          | 2153                              |
|                       | <b>13</b>           | 38976                          | 2127                              |
|                       | <b>14</b>           | 38976                          | 2106                              |
|                       | <b>15</b>           | 38976                          | 2167                              |
|                       | <b>16</b>           | 38976                          | 2230                              |
|                       | <b>17</b>           | 38976                          | 2140                              |
|                       | <b>18</b>           | 38976                          | 1974                              |
|                       | <b>19</b>           | 38976                          | 1900                              |
|                       | <b>20</b>           | 38976                          | 1836                              |
|                       | <b>21</b>           | 38976                          | 1842                              |
|                       | <b>22</b>           | 38976                          | 1757                              |
|                       | <b>23</b>           | 38976                          | 1799                              |
|                       | <b>24</b>           | 38976                          | 1802                              |
|                       | <b>25</b>           | 38976                          | 1689                              |
|                       | <b>26</b>           | 38976                          | 1675                              |
|                       | <b>27</b>           | 38976                          | 1667                              |
|                       | <b>28</b>           | 38976                          | 1551                              |
|                       | <b>29</b>           | 38976                          | 1477                              |
|                       | <b>30</b>           | 38976                          | 1523                              |
|                       | <b>31</b>           | 38976                          | 1415                              |

|                           |                             |                                |  |                                   |   |
|---------------------------|-----------------------------|--------------------------------|--|-----------------------------------|---|
|                           | <b>Sample Point</b>         | 006                            |  | 006                               |   |
|                           | <b>Description</b>          | WLA CBOD5 Discharge Compliance |  | WLA CBOD5 Discharge Compliance    |   |
|                           | <b>Parameter</b>            | 543                            |  | 542                               |   |
|                           | <b>Description</b>          | WLA 7 Day Sum Of WLA Values    |  | WLA 7 Day Sum Of CBOD5 Discharged |   |
|                           | <b>Units</b>                | lbs/day                        |  | lbs/day                           |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 38976                          |  | 1893.6                            |   |
|                           | <b>Daily Max</b>            | 38976                          |  | 2309                              |   |
|                           | <b>Daily Max - Variable</b> |                                |  | 2309                              |   |
|                           | <b>Daily Min</b>            | 38976                          |  | 1415                              |   |
|                           | <b>Geometric Mean -</b>     |                                |  |                                   |   |
|                           | <b>Week 1 Avg</b>           |                                |  |                                   |   |
|                           | <b>Week 2 Avg</b>           |                                |  |                                   |   |
|                           | <b>Week 3 Avg</b>           |                                |  |                                   |   |
|                           | <b>Week 4 Avg</b>           |                                |  |                                   |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                |  |                                   |   |
|                           | <b>Daily Max</b>            |                                |  |                                   |   |
|                           | <b>Daily Max - Variable</b> |                                |  | 0                                 | 0 |
|                           | <b>Daily Min</b>            |                                |  |                                   |   |
|                           | <b>Geometric Mean -</b>     |                                |  |                                   |   |
|                           | <b>Weekly Avg</b>           |                                |  |                                   |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                |  |                                   |   |
|                           | <b>LOQ</b>                  |                                |  |                                   |   |
|                           | <b>QC Exceedance</b>        | N                              |  | N                                 |   |
|                           | <b>Lab Certification</b>    |                                |  |                                   |   |

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

BOD Blank Exceedance: 5-12(-0.41), 5-15(0.26), 5-24 (0.27)

Submitted by K3vin1 on 06/14/2017 9:19:52 AM