



Village of Menomonee Falls  
W156 N8480 Pilgrim Road  
Menomonee Falls, WI 53051-3140  
Telephone: (262) 532-4200

## STORMWATER MANAGEMENT FACILITIES OPERATION AND INSPECTION REPORT

Quarter Section SW 1/4 of Name of Business/Subdivision Zion Evangelical Lutheran  
Sec. 33 MNFV Congregation  
Property Tax ID Number Address of Property N48W18700 Lisbon Road  
0131991008  
Date August 2015 Menomonee Falls, WI 53051

|          |   |                  |   |
|----------|---|------------------|---|
| Dry Pond |   | Location of Pond | North side of Lisbon Road,<br>650 feet east of Emerald Hills<br>Drive |
| Wet Pond | X |                  |   |
| Other    |   | Pond ID:         | SWP33s001   |

Year Pond Constructed 2006 Year of Last Certification 2010

| Compliance Verification        |        | Design          | Actual | Compliant<br>Yes | No | Comments<br>( Condition of Structure)                          |
|--------------------------------|--------|-----------------|--------|------------------|----|--|
| <b>Primary Outlet Pipe</b>     |        |                 |        |                  |    | Outlet Pipe Material   |
| Opening Diameter (inches)      | 15"    | 15"             | X      |                  |    | RCP  |
| Upstream Invert                | 891.0  | 890.9           | X      |                  |    |  |
| Downstream Invert              | 890.5  | 890.4           | X      |                  |    |  |
| Length (feet)                  | 44.33' | 43.8'           | X      |                  |    |  |
| Slope (%)                      | 1.13%  | 1.14%           | X      |                  |    |  |
| <b>Secondary Outlet Pipe</b>   |        | (If Applicable) |        |                  |    | Outlet Pipe Material   |
| Opening Diameter (inches)      | -      |                 |        |                  |    |  |
| Upstream Invert                | -      |                 |        |                  |    |  |
| Downstream Invert              | -      |                 |        |                  |    |  |
| Length (feet)                  | -      |                 |        |                  |    |  |
| Slope (%)                      | -      |                 |        |                  |    |  |
| <b>Riser</b>                   |        | (If Applicable) |        |                  |    | Riser Material   |
| Opening Diameter (inches)      | 36"    | 36"             | X      |                  |    | Riser structure is RCP.  |
| Elevation                      | 894.0  | 894.0           | X      |                  |    | Riser structure is in good condition, no clogging or cracking. |
| <b>Upper Discharge Control</b> |        | (If Applicable) |        |                  |    |  |
| Opening Diameter (inches)      | -      |                 |        |                  |    |  |
| Elevation                      | -      |                 |        |                  |    |  |

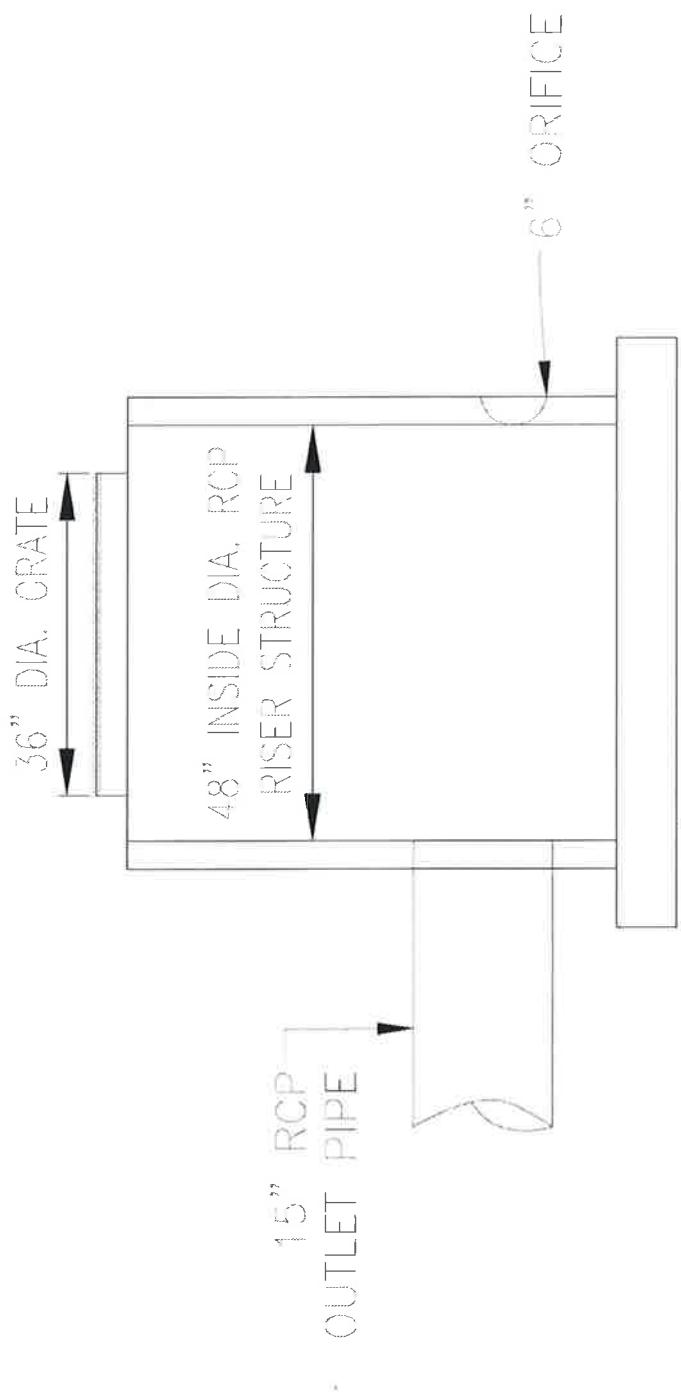
| Compliance Verification                                | Design                 | Actual | Compliant<br>Yes      No                             |                | Comments  |
|--|------------------------|--------|--|----------------|---|
| <b>Lower Discharge Control</b>                         | (If Applicable)        |        |  |                |   |
| Opening Diameter (inches)                              | 6                      | 6"     | X  |                | *Normal water level was lower than design; presumed to be due to dry weather this summer. |
| Elevation  | 891.0                  | 890.9  | X  |                | Vegetation indicates typical water level is higher (near design). Continue to monitor.    |
| <b>Other (Description)</b>                             |                        |        |  |                |   |
| Opening Type and Size (inches)                         | -                      |        |  |                |   |
| Elevation  | -                      |        |  |                |   |
| <b>Emergency Spillway</b>                              |                        |        |  |                |   |
| Elevation  | 895.3                  | 895.15 | X  |                |   |
| Length of spillway (feet)                              | 10'                    | 10'    | X  |                |   |
| <b>Embankment</b>                                      | Present<br>Yes      no |        | Comments/Maintenance Requirements                    |                |   |
| Unauthorized Plantings, trees, or woody vegetation     |                        | X      | A lot of cattails, no other unauthorized vegetation. |                |   |
| Animal burrows or slope erosion                        |                        | X      |  |                |   |
| <b>Storm Sewer Outfalls</b>                            | Type & Size            |        | Location   |                | Comments  |
| Outfall 1  | 12" HDPE               |        | North end of pond                                    |                | Good condition, slight scour at outfall   |
| Outfall 2  | -                      |        |  |                |   |
| Outfall 3  | -                      |        |  |                |   |
| Storage Properties                                     | Design                 | Actual | Compliant<br>Yes      No                             | Not Applicable | Equipment Used  |
| Normal Water Elevation (Wet Ponds)                     | 891.0                  | 889.8  | X*   |                | Level Loop & GPS (Navcom)   |
| Design High Water Elevation                            | 893.64                 | 893.64 | X  |                |   |
| Area at Normal Water Elevation (Ac) (Wet Ponds)        | 0.22                   | .18    | X  |                |   |
| Area at Design High Water Elevation (Ac)               | 0.33                   | .38    | X  |                |   |
| Active Storage Available (Ac-Ft)*                      | 0.72                   | 1.08   | X  |                |   |
| Lowest Elevation at Top of Embankment (If Applicable)  | 896.3                  | 895.63 | X  |                | Level Loop & GPS (Navcom)   |
| Average Elevation at Top of Embankment (If Applicable) | 896.3                  | 896.1  | X  |                | Level Loop & GPS (Navcom)   |
| Maximum Bottom Elevation                               | 884                    | 884.65 | X  |                | Extended rod with measure down rod  |
| Average Pond Bottom Elevation                          | 884                    | 884.9  | X  |                | Extended rod with measure down rod  |
| Pond Bottom Area (Ac)                                  | 0.014                  | 0.014  | X  |                | Extended rod with measure down rod  |
| Maximum Pond Depth                                     | 7'                     | 6'     | X  |                |   |
| Average Pond Depth                                     | 5'                     | 5      | X  |                |   |
| Average Permanent Pool Depth (Wet Ponds)               | 5'                     | 5'     | X  |                |   |

\*To Determine Active Storage  $V=H/3(A1+A2+(A1xA2)^{1/2})$

Wet Ponds Use  $H$  = Height of Section,  $A1$  = area at normal water elevation,  $A2$  = area at top section

Dry Ponds Use  $H$  = Height of Section,  $A1$  = pond bottom area,  $A2$  = area at top section

Riser Structure Sketch



Pond



Riser Structure



6" Riser Orifice



15" Riser Outlet Orifice

Attach As-built Survey to the Document for the first report submission

Inspection Firm: Trio Engineering  
Phone Number: (262) 790-1480  
Address: 12660 W. North Ave.  
Brookfield, WI 53005

Inspector Name : Ben Honeck  
Inspection Date: July 31, 2015

Certifying Professional

Name: Joshua Pudelko  
Phone Number: (262) 790-1480

Date: 8/6/15

Signature: Joshua Pudelko



10-3-2012

