



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        | NW 1/4 Sec | Name of Business/Subdivision |  | Pilgrim Glen Condominium Plat |
| Property Tax ID Number | 23-8-20    | 0090-996-066                 |  | Addendum No. 2                |
|                        | thru       | 0090-996-125                 |  | Address of Property           |
| Date                   | 8/31/20    |                              |  | Macallan Court                |

|          |                                     |                    |                  |                         |
|----------|-------------------------------------|--------------------|------------------|-------------------------|
| Dry Pond | <input type="checkbox"/>            | Pond ID: SWP23N003 | Location of Pond | SE Quadrant of Property |
| Wet Pond | <input checked="" type="checkbox"/> |                    |                  |                         |
| Other    | <input type="checkbox"/>            |                    |                  |                         |

|                       |      |                            |      |
|-----------------------|------|----------------------------|------|
| Year Pond Constructed | 2008 | Year of Last Certification | 2015 |
|-----------------------|------|----------------------------|------|

| Compliance Verification        | Design          | Actual   | Compliant<br>Yes | Comments<br>(Condition of Structure)                        |
|--------------------------------|-----------------|----------|------------------|---|
| <b>Primary Outlet Pipe</b>     |                 |          |                  |   |
| Opening Diameter (inches)      | 12"             | 12'      |                  | Reinforced Concrete Pipe                                    |
| Upstream Invert                | 825.00          | 825.10   | ✓                | Accumulative silt at opening and bottom of outlet structure |
| Downstream Invert              | 824.49          | 824.07   | ✓                | Recommend removal of silt.                                  |
| Length (feet)                  | 51.0            | 28.4     | ✓                |   |
| Slope                          | 0.010' /        | 0.036' / | ✓                |   |
| <b>Secondary Outlet Pipe</b>   | (If Applicable) |          |                  |   |
| Opening Diameter (inches)      |                 |          |                  | Outlet Pipe Material  |
| Upstream Invert                |                 |          |                  |   |
| Downstream Invert              |                 |          |                  |   |
| Length (feet)                  |                 |          |                  |   |
| Slope (%)                      |                 |          |                  |   |
| <b>Riser</b>                   | (If Applicable) |          |                  |   |
| Opening Diameter (inches)      |                 |          |                  | Riser Material  |
| Elevation                      |                 |          |                  |   |
| <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<br>(inches)                                 | _____                  | _____  |  |                  |
| Elevation  | _____                  | _____  |  |                  |
| <b>Other (Description)</b>                                   |                        |        |  |                  |
| Opening Type and Size<br>(inches)                            | 6" DIA.                | 6" DIA |  | Vertical Orifice |
| Elevation  | 825.00                 | 824.71 | ✓  |                  |
| <b>Emergency Spillway</b>                                    |                        |        |  |                  |
| Elevation  | 828.50                 | 828.52 | ✓  |                  |
| Length of spillway<br>(feet)                                 | 20.0'                  | 22.4'  | ✓  |                  |
| <b>Embankment</b>  | Present<br>Yes      no |        | Comments/Maintenance Requirements  |                  |
| Unauthorized Plantings,<br>trees, or woody vegetation        | ✓                      |        | Some vegetative growth around outlet structure.<br>Recommend clearing for full function. |                  |
| Animal burrows or slope<br>erosion                           |                        | ✓      |  |                  |
| <b>Storm Sewer Outfalls</b>                                  | Type & Size            |        | Location   | Comments         |
| Outfall 1 (ES-2.1)   | RCP 24"                |        | West Portion of Pond   |                  |
| Outfall 2 (ES-2)   | RCP 12"                |        | Northwest Portion of<br>Pond   |                  |
| Outfall 3 (ES-1)   | RCP 12"                |        | Northwest Portion of<br>Pond   |                  |
| <b>Storage Properties</b>                                    | Design                 | Actual | Compliant<br>Yes      No   | Not Applicable   |
| Normal Water Elevation<br>(Wet Ponds)                        | 825.00                 | 824.86 | ✓  |                  |
| Design High Water<br>Elevation                               | 828.52                 | 828.91 | ✓  |                  |
| Area at Normal Water<br>Elevation (Ac) (Wet Ponds)           | 0.530                  | 0.502  | ✓  |                  |
| Area at Design High<br>Water Elevation (Ac)                  | 1.020                  | 0.915  | ✓  |                  |
| Active Storage Available<br>(Ac-Ft)*                         | 2.667                  | 2.869  | ✓  |                  |
| Lowest Elevation at Top<br>of Embankment<br>(If Applicable)  | 829.50                 | 828.68 | ✓  |                  |
| Average Elevation at Top<br>of Embankment<br>(If Applicable) | 829.50                 | 829.11 | ✓  |                  |
| Maximum Bottom<br>Elevation                                  | 820.00                 | 819.89 | ✓  |                  |
| Average Pond Bottom<br>Elevation                             | 820.00                 | 820.16 | ✓  |                  |
| Pond Bottom Area (Ac)  | 0.223                  | 0.205  | ✓  |                  |
| Maximum Pond Depth   | 5.0'                   | 5.0'   | ✓  |                  |
| Average Pond Depth   | 5.0'                   | 4.7'   | ✓  |                  |
| Average Permanent Pool<br>Depth (Wet Ponds)                  | 5.0'                   | 4.7'   | ✓  |                  |

\*To Determine Active Storage     $V=H/3(A1+A2+(A1 \times A2)1/2)$

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

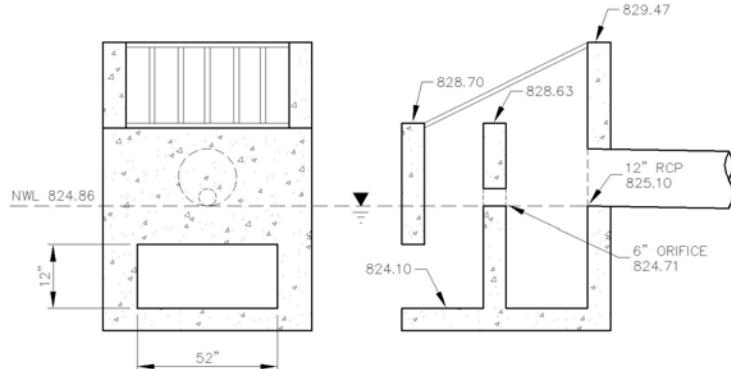
Dry Ponds Use  $H$ = Height of Section,  $A1$ = pond bottom area,  $A2$ =area at top section

Lowest Bottom Elevation

Trimble R6 GPS

HWL Calculated by HydroCAD

*Outlet Sketch*



**POND OUTLET DETAILS**

N.T.S.

*See Attached Photo Document*

*See Attached Photo Document*

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

Inspection Firm: JSD Professional Services, Inc  
Phone Number: (262) 513-0666  
Address: W238 N1610 Busse Road  
Suite 100  
Waukesha, WI 53188

Inspector Name : Jay Averill  
Inspection Date: 8/21/2020

Certifying  
Professional Name: Rizal Iskandarsjach P.L.S., P.E.  
Phone Number: (262) 513-0666

Date:

*8/31/20*

Signature:

*Rizal Iskandarsjach*



*Affix Seal Here*

Pilgrim Glen Condominium - Pond SWP23N003

Photo Date: 08-21-20



Photo 1: SE side of pond, looking northwesterly.



Photo 2: SE side of pond, looking northeasterly.



Photo 3: Outlet structure front intake silted.



Photo 4: Outlet structure bottom silted.

