



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 NW1/4 & SE1/4 of Section 3 Name of Business/Subdivision Alto-Shaam
Property Tax ID Number MNFV001096001 Address of Property W164N9221 Water St.

| | | | | |
|----------|----------|--|------------------|--|
| Dry Pond | | Description: <u>Southwest Biobasin</u> <u>SWP03N014</u> | Location Of Pond | Southwest side of site adjacent to Menomonee River |
| Wet Pond | | | | |
| Other | Biobasin | | | |

Year Pond Constructed 2020 Year of Last Certification NA

| Compliance Verification | Design | Actual | Compliant Yes | Compliant No | Comments (Condition of Structure) |
|--------------------------------|-----------------|--------|------------------|-----------------|--------------------------------------|
| Primary Outlet Pipe | | | | | |
| Opening Diameter (inches) | 24" | 24" | X | | RCP |
| Upstream Invert | 839.0 | 838.90 | X | | |
| Downstream Invert | 838.6 | 838.56 | X | | |
| Length (feet) | 55' | 58" | X | | |
| Slope (%) | 0.73% | 0.59% | X | | |
| Secondary Outlet Pipe | (If Applicable) | | | | Outlet Pipe Material |
| Opening Diameter (inches) | | | | | |
| Upstream Invert | | | | | |
| Downstream Invert | | | | | |
| Length (feet) | | | | | |
| Slope (%) | | | | | |
| Riser | (If Applicable) | | | | Riser Material |
| Opening Diameter (inches) | 24" | 24" | X | | RCP |
| Elevation | 843.00 | 842.60 | X | | |
| Upper Discharge Control | (If Applicable) | | | | |
| Opening Diameter (inches) | 2" | 2" | X | | |
| Elevation | 842.0 | 841.97 | X | | |

| Compliance Verification | Design | Actual | Compliant Yes | No | Comments |
|--|-----------------|--------|-----------------------------------|-------------------|-------------------|
| Lower Discharge Control | (If Applicable) | | | | |
| Opening Diameter (inches) | 6" | 6" | | | |
| Elevation | 839.0 | 838.80 | X | | |
| Other (Description) | 6" DRAINTILE | | | | |
| Opening Type and Size (inches) | 6" | 6" | X | | |
| Elevation | 839.0 | 838.90 | X | | |
| Emergency Spillway | | | | | |
| Elevation | 845.5 | 845.5 | X | | |
| Length of spillway (feet) | 10' | 13' | X | | |
| Embankment | Present Yes | | Comments/Maintenance Requirements | | |
| Unauthorized Plantings, trees, or woody vegetation | | X | | | |
| Animal burrows or slope erosion | | X | | | |
| Storm Sewer Outfalls | Type & Size | | Location | | Comments |
| Outfall 1 | 2-8" PVC | | north end of basin | | |
| Outfall 2 | 30" RCP | | south end of basin | | |
| Outfall 3 | 10" PVC | | south end of basin | | |
| Storage Properties | Design | Actual | Compliant Yes | Not Applicable | Equipment Used |
| Normal Water Elevation (Wet Ponds) (bottom el.) | 841.0 | 840.75 | X | | GPS Total Station |
| Design High Water Elevation | 844.45 | 844.13 | X | | |
| Area at Normal Water Elevation (Ac) (Wet Ponds) | | | | | |
| Area at Design High Water Elevation(AC.) | 0.223 | 0.227 | X | | |
| Active Storage Available (AC.FT.) | 0.539 | 0.845 | X | | |
| Lowest Elevation at Top of Embankment (If Applicable) | | | | | |
| Average Elevation at Top of Embankment (If Applicable) | 846.5 | 846.49 | X | | |
| Maximum Bottom Elevation | 841.0 | 840.29 | X | | |
| Average Pond Bottom Elevation | 842.0 | 841.75 | X | | |
| Pond Bottom Area (AC.) | 0.065 | 0.073 | X | | |
| Maximum Pond Depth | 4.5 | 6.2 | X | | |
| Average Pond Depth | 4.5 | 4.54 | X | | |
| Average Permanent Pool Depth (Wet Ponds) | | | | | |

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

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

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

Sketch Outlet

See Attached



Inspection Firm: CJ Engineering, LLC Inspector Name : Randall Bruckner
Phone Number: 414-443-1312 Inspection Date: 06-29-2020
Address: 9205 W. Center Street, Suite 214
Milwaukee, WI 53222

Certifying

Professional Name: Randall Bruckner
Phone Number: 414-443-1312

| | |
|---|-------------------|
| <i>Date:</i> 06-30-2020 Rev. 03-04-21 | <i>Signature:</i> |
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