



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	<u>SE 16T8N</u>	Name of Business/Subdivision	<u>Edgewood Preserve</u>
Property Tax ID Number	<u>MNFV0064986</u>	Address of Property	<u>N72W17686 Good Hope Road</u>
Date <u>10/18/2021</u>			<u>Menomonee Falls, WI 53051</u>

Dry Pond	
Wet Pond	X
Other	

Location of Pond

NE Corner of Subdivision

Pond ID: SWP16S002

Year Pond Constructed

2020/2021

Year of Last Certification

NA

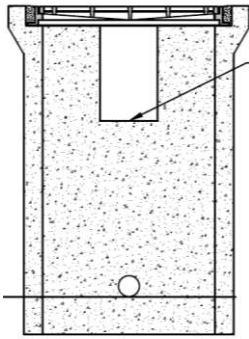
Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	12	12	X		Reinforced Concrete
Upstream Invert	848.00	848.02	X		
Downstream Invert	847.90	847.86	X		
Length (feet)	34.5	34.5	X		
Slope (%)	0.3	0.5	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)	NA				
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	36	36	X		Reinforced Concrete
Elevation	851.50	851.54	X		
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)	NA				
Elevation					

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	2	2	X		Cored into riser, partially covered with erosion control matting	
Elevation	848.00	848.02	X			
Other						
Opening Type and Size (inches)	NA					
Elevation						
Emergency Spillway						
Elevation	851.75	851.75	X			
Length of spillway (feet)	20	17.6	X			
Embankment	Present Yes no		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	24" FES		NW corner of Pond 1		Good condition	
Outfall 2	NA					
Outfall 3	NA					
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	848.00	848.02	X			Trimble Survey Grate RTK GNSS & Robotic Total Station
Design High Water Elevation	851.70	851.73	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.310	0.311	X			
Area at Design High Water Elevation (Ac)	0.556	0.572	X			
Active Storage Available (Ac-Ft)*	1.565	1.585	X			
Lowest Elevation at Top of Embankment (If Applicable)	853.00	852.73	X			
Average Elevation at Top of Embankment (If Applicable)	853.00	853.00	X			
Maximum Bottom Elevation	843.00	842.47	X			
Average Pond Bottom Elevation	843.00	842.69	X			
Pond Bottom Area (Ac)	0.077	0.079	X			
Maximum Pond Depth	10	10.53	X			
Average Pond Depth	10	10.31	X			
Average Permanent Pool Depth (Wet Ponds)	5	5.31	X			

*To Determine Active Storage $V = (H/3)(A1 + A2 + (\sqrt{A1 \cdot A2}))$

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



851.75
 851.75 SPILLWAY
 851.73
 851.70 HWL
 851.54
 851.50 36" RISER
 848.02
 848.02 2" ORFICE
 848.02
 848.00 12" OUTFALL
 847.91
 847.90 12" DISCHARGE
 842.69
 843.00 POND BOTTOM

RISER PIPE SIDE VIEW



Pond 1 facing S



Pond 1 Facing N



12" DISCHARGE

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

Inspection Firm: R.A. Smith, Inc.
 Phone Number: 262-781-1000
 Address: 221 S. 2nd Street
 Milwaukee, WI 53204

Inspector Name : Colleen Thomas
 Inspection Date: 07/01/2021

Certifying Professional
 Name: Chris Hitch, PE
 Phone Number: 262-317-3267



Date: 10/18/2021

Signature: