



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, Sec 25 Name of Business/Subdivision Harmony Hills II
Property Tax ID Number N0098090 Address of Property
Date: 8/14/2021

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP25n005

Location of Pond Outlot 5 – Pond #5

Year Pond Constructed 2007 Year of Last Certification 2011

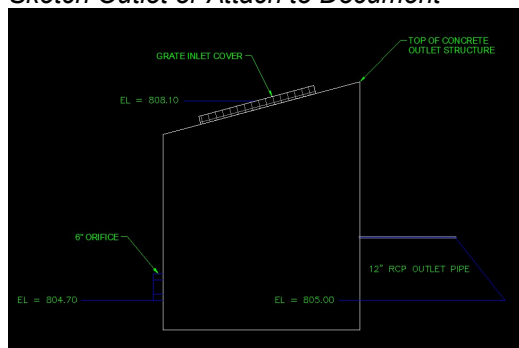
Compliance Verification	Design	Actual	Compliant Yes No	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	12"	12"	X	Outlet pipe material is RCP. RCP is in good condition and no evidence of sediment accumulation within pipe, appears to be operating as originally intended.
Upstream Invert	805.0	805.00	X	
Downstream Invert	804.10	804.25	X	
Length (feet)	74	75	X	
Slope (%)	1.2%	1.0%	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"x36"	24"x36"	X	Riser is a concrete structure with a metal rebar grate bolted to concrete structure. There is some slight erosion around the west side of the structure.
Elevation	808.00	808.10	X	
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)				
Elevation				

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)	6"	6"	X			
Elevation	805.0	804.70	X			
Other (Description)						
Opening Type and Size (inches)						
Elevation						
Emergency Spillway						
Elevation	807.50	807.80	X			
Length of spillway (feet)	20'	21'	X		Some weedy vegetation growing, spray or hand remove	
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	RCP. 15"		Southeast Side		Sediment accumulation at end of pipe, should be removed and replaced with riprap outfall protecting area from pipe to water's edge, pipe is in good working condition	
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	805.0	805.1	X			Drone technology and laser level To determine elevations and contours
Design High Water Elevation	808.50	808.55	X			HydroCAD 10.0 to determine areas and pond volumes
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.10	0.097	X			
Area at Design High Water Elevation (Ac)	0.25	0.24	X			
Active Storage Available (Ac-Ft)*	0.72	0.70	X			
Lowest Elevation at Top of Embankment (If Applicable)	809	808.90				
Average Elevation at Top of Embankment (If Applicable)	809	808.98				
Maximum Bottom Elevation	800.00	800.68	X			
Average Pond Bottom Elevation	800.00	800.24	X			
Pond Bottom Area (Ac)	0.03	0.022	X			
Maximum Pond Depth	5.0 ft	5.40 ft	X			
Average Pond Depth						

Average Permanent Pool Depth (Wet Ponds)	5.0 ft	4.86 ft	X		
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*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

Sketch Outlet or Attach to Document



Emergency riprap outflow weir



Overall view of pond



Infall pipe with sediment at end of pipe



Outlet structure. Outlet pipe is exposed. When infall pipe sediment is removed for riprap outfall, excavated material can be placed here to cover pipe.

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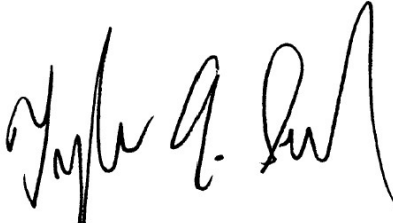
Attach As-built Survey to the Document for the first report submission

Inspection Firm:	<u>Drainage Doctor, LLC</u>	Inspector Name :	<u>Tyler Smith, PE</u>
Phone Number:	<u>608.535.9380</u>	Inspection Date:	<u>05.25.2021</u>
Address:	<u>416 W Red Pine Circle</u>		
	<u>Dousman, WI 53118</u>		

Certifying Professional Name:	<u>Tyler Smith, PE</u>
Phone Number:	<u>608.535.9380</u>

*Affix Seal
Here*



<i>Date:</i> 08.14.2021	<i>Signature:</i> 
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10-3-2012