



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  
Property Tax ID Number  
Date: 8/14/2021

NW1/4, Sec 25 Name of Business/Subdivision Harmony Hills II  
N0098090 Address of Property \_\_\_\_\_  
\_\_\_\_\_

Dry Pond		Location of Pond	Outlet 5 – Pond #5
Wet Pond	X		_____
Other			_____

Year Pond Constructed 2007 Year of Last Certification 2011

Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
<b>Primary Outlet Pipe</b>					
Opening Diameter (inches)	12"	12"	X		Outlet Pipe Material Outlet pipe material is RCP.
Upstream Invert	805.0	805.00	X		RCP is in good condition and no evidence of sediment accumulation within pipe, appears to be operating as originally intended.
Downstream Invert	804.10	804.25	X		
Length (feet)	74	75	X		
Slope (%)	1.2%	1.0%	X		
<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)	24"x36"	24"x36"	X		Riser Material 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		
<b>Upper Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)					
Elevation					

Compliance Verification	Design	Actual	Compliant Yes	No	Comments
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	6"	6"	X		
Elevation	805.0	804.70	X		
<b>Other (Description)</b>					
Opening Type and Size (inches)					
Elevation					
<b>Emergency Spillway</b>					
Elevation	807.50	807.80	X		
Length of spillway (feet)	20'	21'	X		Some weedy vegetation growing, spray or hand remove
<b>Embankment</b>	Present Yes	no	Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X			
Animal burrows or slope erosion		X			
<b>Storm Sewer Outfalls</b>	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					
<b>Storage Properties</b>	Design	Actual	Compliant Yes	No	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		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.10	0.097	X		HydroCAD 10.0 to determine areas and pond volumes
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					

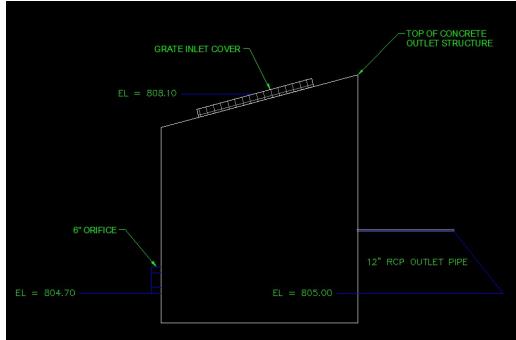
Average Permanent Pool Depth (Wet Ponds)	5.0 ft	4.86 ft	X		
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\*To Determine Active Storage  $V=(H/3)(A_1+A_2+(\sqrt{A_1A_2}))$

Wet Ponds Use  $H$  = Height of Section,  $A_1$  = area at normal water elevation,  $A_2$  = area at top section

Dry Ponds Use  $H$  = Height of Section,  $A_1$  = pond bottom area,  $A_2$  = area at top section

Sketch Outlet or Attach to Document



25/05/2021 01:48:21 PM

Overall view of pond



25/05/2021 01:48:52 PM

Emergency riprap outflow weir



25/05/2021 01:48:01 PM

Infall pipe with sediment at end of pipe



25/05/2021 01:49:00 PM

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

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

Inspection Firm: Drainage Doctor, LLC  
Phone Number: 608.535.9380  
Address: 416 W Red Pine Circle  
Dousman, WI 53118

Inspector Name : Tyler Smith, PE  
Inspection Date: 05.25.2021

Certifying Professional Tyler Smith, PE  
Name: \_\_\_\_\_  
Phone Number: 608.535.9380

*Affix Seal  
Here*



Date: 08.14.2021

Signature:

A handwritten signature of "Tyler A. Smith" in black ink.

10-3-2012