



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: SWP25n001

Location of Pond Outlot 2 – Pond #1

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	782.00	782.00	X	
Downstream Invert	778.70	781.88	X	
Length (feet)	23	22	X	
Slope (%)	14.35%	5.45%	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 Elevation is to center of grate
Elevation	787.50	787.53	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)					
Elevation					
Other (Description)					
Opening Type and Size (inches)					
Elevation					
Emergency Spillway					
Elevation	788.20	788.25	X		
Length of spillway (feet)	40'	38'	X		Some weedy vegetation growing, spray or hand remove
Embankment	Present Yes no		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X	There is some significant erosion near the electrical pedestal that feeds the fountain. There appears to be some ongoing erosion issues near a black fence that is owned by a Homeowner. Any exposed or disturbed soil areas shall be seeded and covered with erosion mat.		
Animal burrows or slope erosion	X				
Storm Sewer Outfalls	Type & Size		Location		Comments
Outfall 1	RCP, 36"		Southeast Corner		No signs of sediment accumulation at the end of the pipe. The riprap outfall has been filled in with sediment and needs to be removed and replaced to prevent further erosion and damage to the pond side slope.
Outfall 2	RCP, 26"		Northeast Corner		Sediment is not accumulating in the pipe and the pipe appears to be in good condition. The riprap outfall is filled in with sediment and other debris and should be replaced from the end of the pipe down to the normal water elevation.
Outfall 3					

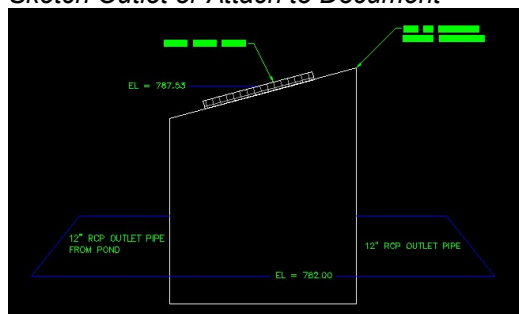
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	782.00	782.10	X			Drone technology and laser level To determine elevations and contours HydroCAD 10.0 to determine areas and pond volumes
Design High Water Elevation	788.00	788.05	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.48	0.49	X			
Area at Design High Water Elevation (Ac)	0.91	0.88	X			
Active Storage Available (Ac-Ft)*	4.00	4.01	X			
Lowest Elevation at Top of Embankment (If Applicable)						
Average Elevation at Top of Embankment (If Applicable)						
Maximum Bottom Elevation	777.00	777.10	X			
Average Pond Bottom Elevation	777.00	776.96	X			
Pond Bottom Area (Ac)	0.18	0.25	X			
Maximum Pond Depth	5.0 ft	5.17 ft	X			
Average Pond Depth						
Average Permanent Pool Depth (Wet Ponds)	5.0 ft	5.14 ft	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

Sketch Outlet or Attach to Document



Overall view of pond



Infall pipe at southeast corner



12" RCP outlet pipe to structure



Infall pipe at northeast corner



Outlet structure with rebar grate bolted down



Erosion in side slope near electrical pedestal

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 Name: *Tyler Smith, PE*

Phone Number: 608.535.9380

*Affix Seal
Here*

Date:

08.14.2021

Signature:

Tyler A. Smith



10-3-2012