



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 11 NW Name of Business/Subdivision MENO. FALLS VILLAGE HALL
 Property Tax ID Number 0042964 Address of Property W156N8480 PILGRIM RD
MENO. FALLS, WI 53051

Dry Pond	
Wet Pond	X
Other	

Description: SWP11N004 Location Of NORTHEAST CORNER OF
U-0146 Pond PROPERTY NEAR MACARTHUR
DR & KNOLL TER

Year Pond Constructed 2001 Year of Last Certification N/A

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe (IN11N006)					Outlet Pipe Material
Opening Diameter (inches)	18" RCP	15" RCP	-	-	15" RCP IN GOOD CONDITION
Upstream Invert	764.00	763.65	-	-	
Downstream Invert	760.50	760.50	-	-	
Length (feet)	56.0 FT	58.0 FT	-	-	
Slope (%)	0.0625 %	0.0543 %	-	-	
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches)			-	-	
Upstream Invert			-	-	
Downstream Invert			-	-	
Length (feet)			-	-	
Slope (%)			-	-	
Riser	N/A				Riser Material
Opening Diameter (inches)			-	-	
Elevation			-	-	
Upper Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	N/A					
Opening Diameter (inches)			-	-		
Elevation			-	-		
Other (Description)	N/A					
Opening Type and Size (inches)			-	-		
Elevation			-	-		
Emergency Spillway						
Elevation	768.30	768.00	-	-		
Length of spillway (feet)	15.0 FT	16.0 FT	-	-		
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	Y	REMOVE SMALL WOODY VEGETATION			
Animal burrows or slope erosion or hole	-	Y	ANIMAL BURROWS PRESENT			
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (OT11N007)	RCP – 12"		SOUTHWEST CORNER			
Outfall 2 (OT11N035)	RCP – 27"		SOUTHWEST CORNER			
Outfall 3 (OT11N036)	RCP – 30"					
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	764.00	763.65	-	-	N/A	GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7
Design High Water Elevation	768.60	768.00	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	0.295 AC	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	0.756 AC	-	-		
Active Storage Available (Ac-Ft)*	-	4.45 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	-	767.77	-	-		
Average Elevation at Top of Embankment (If Applicable)	-	770.00	-	-		
Maximum Bottom Elevation	760.00	759.74	-	-		
Average Pond Bottom Elevation	-	761.34	-	-		
Pond Bottom Area (Ac)	-	0.295 AC	-	-		
Maximum Pond Depth	-	8.03 FT	-	-		
Average Pond Depth	-	6.43 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	-	-	-	-	N/A	

*To Determine Active Storage $V = \left(\left(\frac{H}{3} \right) \left(A1 + A2 + \left((A1 + A2)^{\wedge} \left(\frac{1}{2} \right) \right) \right) \right)$

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

Municipal Park Retention Pond – SWP11N004

Overview (looking NW)



Outlet OT11N036



Municipal Park Retention Pond – SWP11N004

Outlet OT11N035



Inlet IN11N007



Outlet OT11N034



Municipal Park Retention Pond – SWP11N004

Inlet IN11N006



Emergency Spillway



Municipal Park Retention Pond – SWP11N004

Repairs Needed (12/2010)

- Animal burrows evident at southeast corner of south basin



- 6" Animal burrow at east end of south basin



Municipal Park Retention Pond – SWP11N004

Repairs Needed (12/2010) (Continued)

- Undermining of Outlets OT11N036 and OT 11N035.
- End sections of pipes pushed away from main pipeline.
- Water paths eroded bank from end sections to water level.



- Slight undermining of OT11N034



Municipal Park Retention Pond – SWP11N004

Repairs Needed (12/2010) (Continued)

- Woody vegetation growing in retention basin



Sketch Outlet

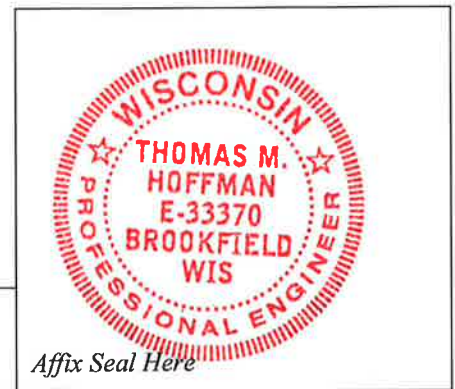
Place Photograph of Pond

Place Photograph of Pond

Inspection Firm: VILLAGE OF
MENOMONEE FALLS
Phone Number: 262-532-4411
Address: W156N8480 PILGRIM RD
MENOMONEE FALLS, WI
53051

Inspector Name : CHRISTOPHER M GARIEPY
Inspection Date: 11/16/2010

Certifying
Professional Name: Thomas M Hoffman
Phone Number: 262-532-4415



Date: 7/23/2014 Signature: [Handwritten Signature]

$$H = 6.43 \text{ FT}$$
$$A_1 = 0.295 \text{ AC}$$
$$A_2 = 0.756 \text{ AC}$$

2010

11N004

Municipal Park Pond

$$V = \left(\frac{H}{3}\right)(A_1 + A_2 + \sqrt{A_1 A_2})$$

$$V = \left(\frac{6.43 \text{ FT}}{3}\right)(0.295 \text{ AC} + 0.756 \text{ AC} + \sqrt{0.295 \text{ AC} \times 0.756 \text{ AC}})$$

$$V = (2.143 \text{ FT})(1.051 \text{ AC} + 1.025 \text{ AC})$$

$$V = (2.143 \text{ FT})(2.076 \text{ AC})$$

$$\underline{\underline{V = 4.45 \text{ AC FT}}}$$

CMG 12/13/10

Municipal Park- MNFV0042964
Pond Inspection 111610 CMG

