



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	VMF COMMUNITY CENTER
Property Tax ID Number	0042973005	Address of Property	W153 N8681 MARGARET RD
			MENOMONEE FALLS, WI 53051

Dry Pond	X	Description: SWP11N002	Location Of Pond	WEST OF ENTRANCE TO COMMUNITY CENTER OFF OF MENO RVR PKWY
Wet Pond				
Other				

Year Pond Constructed 1995 Year of Last Certification UNKNOWN

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	Non-Compliant No	Comments (Condition of Structure)
<b>Primary Outlet Pipe (IN11N009)</b>					Outlet Pipe Material
Opening Diameter (inches)	NOT LISTED	15"	-	-	15" RCP IN GOOD CONDITION
Upstream Invert	756.50	757.61	-	-	
Downstream Invert	756.41	757.24	-	-	
Length (feet)	20.0 FT	15.0 FT	-	-	
Slope (%)	0.0045'/, 0.0224'/,		-	-	ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
<b>Secondary Outlet Pipe</b>	N/A				Outlet Pipe Material
Opening Diameter (inches)			-	-	
Upstream Invert			-	-	
Downstream Invert			-	-	
Length (feet)			-	-	
Slope (%)			-	-	
<b>Riser</b>	N/A				Riser Material
Opening Diameter (inches)			-	-	
Elevation			-	-	
<b>Upper Discharge Control</b>	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Compliance Verification	Design	Actual	Compliant		Comments
			Yes	No	
<b>Lower Discharge Control</b>	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	
<b>Other (Description)</b>	N/A				
Opening Type and Size (inches)			-	-	
Elevation			-	-	
<b>Emergency Spillway</b>					
Elevation	-	762.42	-	-	NO SPILLWAY DETAILED IN ORIGINAL PLANS
Length of spillway (feet)	-	5.0 FT	-	-	NO SPILLWAY DETAILED IN ORIGINAL PLANS
<b>Embankment</b>	Present Yes      No		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation	-	N	HOLE REQUIRING ATTENTION AT SOUTHWESTERLY CORNER OF POND FLOOR		
Animal burrows or slope erosion or hole	Y	-			
<b>Storm Sewer Outfalls</b>	Type & Size		Location	Comments	
Outfall 1 (OT11N039)	RCP - 12"		NORTHWEST CORNER	RCP IN GOOD CONDITION, RIPRAP IN END SECTION	
Outfall 2 (OT11N041)	RCP - 24"		EAST EMBANKMENT	RCP IN GOOD CONDITION, RIPRAP IN END SECTION	
Outfall 3					
<b>Storage Properties</b>	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes      No	Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	-	-	-      -	N/A	GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7
Design High Water Elevation	762.00	762.00	-      -		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	-	-      -	N/A	
Area at Design High Water Elevation (Ac)	-	0.223 AC	-      -		
Active Storage Available (Ac-Ft)*	-	1.117 ACFT	-      -		
Lowest Elevation at Top of Embankment (If Applicable)	762.00	762.00	-      -		
Average Elevation at Top of Embankment (If Applicable)	-	-	-      -	N/A	
Maximum Bottom Elevation	758.00	757.98	-      -		
Average Pond Bottom Elevation	757.75	758.10	-      -		
Pond Bottom Area (Ac)	-	0.083 AC	-      -		
Maximum Pond Depth	5.5 FT	4.39 FT	-      -		
Average Pond Depth	4.25 FT	3.9 FT	-      -		
Average Permanent Pool Depth (Wet Ponds)	-	-	-      -	N/A	

$$* \text{To Determine Active Storage } V = ((H/3)(A1 + A2 + ((A1 + A2)^{(1/2)})))$$

Wet Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{area at normal water elevation}$ ,  $A2 = \text{area at top section}$

Dry Ponds Use  $H = \text{Height of Section}$ ,  $A1 = \text{pond bottom area}$ ,  $A2 = \text{area at top section}$

## Margaret Rd Retention Pond (West) - SWP11N002

### Overview



Outlet OT11N039



Outlet OT11N041



## Margaret Rd Retention Pond (West) - SWP11N002

Manhole ST11N026 &  
Inlet IN11N009



Outlet OT11N026



# Margaret Rd Retention Pond (West) - SWP11N002

## Repairs Needed (12/2010)

- 8" + deep hole by on floor of southwest corner of retention pond



Sketch Outlet

Place Photograph of Pond

Place Photograph of Pond

Inspection Firm:	<u>VILLAGE OF MENOMONEE FALLS</u>	Inspector Name :	<u>CHRISTOPHER M GARIEPY</u>
Phone Number:	<u>262-532-4411</u>	Inspection Date:	<u>10/13/2010</u>
Address:	<u>W156N8480 PILGRIM RD</u>		
	<u>MENOMONEE FALLS, WI</u>		
	<u>53051</u>		

Certifying

Professional Name:

Thomas M. Hoffman

Phone Number:

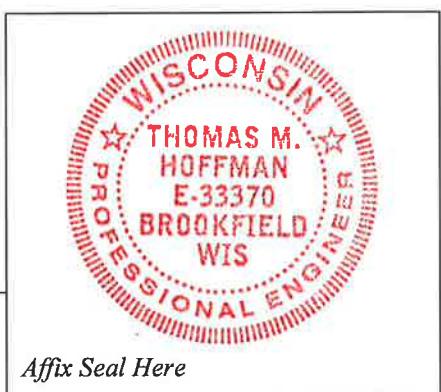
262-532-4415

Date:

7/23/2014

Signature:

Thomas M. Hoffman



Affix Seal Here

$$H = 3.9'$$
$$A_1 = 0.083 \text{ AC}$$
$$A_2 = 0.223 \text{ AC}$$

2010  
11NO02

Magnet Rd Penal-West

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

$$V = \left(\frac{3.9'}{3}\right) \left( 0.083 \text{ AC} + 0.223 \text{ AC} + \sqrt{0.083 \text{ AC} \times 0.223 \text{ AC}} \right)$$

$$V = (1.3') (0.306 \text{ AC} + \sqrt{0.306 \text{ AC}'})$$

$$V = (1.3') (0.306 \text{ AC} + 0.553 \text{ AC})$$

$$V = (1.3') (0.169 \text{ AC}) (0.859 \text{ AC})$$

~~V = 1.117 ACFT~~

$$\underline{V = 1.117 \text{ ACFT}}$$

CMG 12/14/10