



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	23 NE	Name of Business/Subdivision	OAKWOOD PARK/
Property Tax ID Number	0089962003	Address of Property	WINTER FARM POND/
			WINTER HOLLOW SUBD

Dry Pond	
Wet Pond	X
Other	

Description: SWP23N006
P-0074, U-0146

Location Of Pond SOUTH OF GOOD HOPE RD &
WEST OF LILLY RD...
NEAR TERRACE DR & DENNIS
DROESE DR

Year Pond Constructed 1998 Year of Last Certification UNKNOWN

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe (ST23N021)					Outlet Pipe Material
Opening Diameter (inches)	48" RCP	48" RCP	-	-	48" RCP IN GOOD CONDITION
Upstream Invert	774.43	774.58	-	-	
Downstream Invert	-	774.51	-	-	
Length (feet)	114.0 FT	111.2 FT	-	-	
Slope (%)	-	0.0006%	-	-	ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
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)		96" X 96" BOX	-	-	RCP
Elevation		779.00	-	-	@ TOP OF LOWEST ENTRY POINT FOR WATER ABOVE WEIR
Upper Discharge Control	N/A				
Opening Diameter (inches) (ST23N021)	N/A	SEE NOTE	-	-	V-NOTCH WEIR INTO 48" RCP
Elevation	776.80	772.70	-	-	

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
Lower Discharge Control	N/A					
Opening Diameter (inches)			-	-		
Elevation			-	-		
Other (Description)	N/A					
Opening Type and Size (inches)			-	-		
Elevation			-	-		
Emergency Spillway						
Elevation	784.05	784.05	-	-		
Length of spillway (feet)	50.0 FT	58.4 FT	-	-		
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	Y	-	REMOVE WOODY VEGETATION			
Animal burrows or slope erosion or hole	-	N				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (OT23N002)	RCP – 18”		SOUTHEAST POND		GOOD CONDITION	
Outfall 2 (OT23N003)	RCP – 15”		SOUTH POND		GOOD CONDITION, REMOVE VGTN	
Outfall 3 (OT23N005)	RCP – 72”		WEST POND		\END SECTIONS OFF OF STORM	
Outfall 4 (OT23N006)	RCP – 72”		NORTHEAST POND		/SEWER SEVERAL INCHES	
Outfall 5						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	777.00	777.46	-	-	N/A	GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7
Design High Water Elevation	783.20	784.05	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	-	4.945 AC	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	9.024 AC	-	-		
Active Storage Available (Ac-Ft)*	-	38.96 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	-	784.05	-	-		
Average Elevation at Top of Embankment (If Applicable)	-	785.5	-	-		
Maximum Bottom Elevation	-	776.26	-	-		
Average Pond Bottom Elevation	-	770.59	-	-		
Pond Bottom Area (Ac)	-	-	-	-		
Maximum Pond Depth	-	16.9 FT	-	-		
Average Pond Depth	-	6.59 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	-	6.87 FT	-	-	N/A	

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

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

Oakwood Park Retention Pond – SWP23N006

Overview



Outlet OT23N002



Outlet OT23N003



←
2010 pics

Oakwood Park Retention Pond – SWP23N006

Outlet OT23N005



Inlet IN23N019



Outlet OT23N006



Oakwood Park Retention Pond – SWP23N006

Overflow Structure ST23N021



Weir



Storm Sewer



Outlet OT23N013



Oakwood Park Retention Pond – SWP23N006

Emergency Spillway



Oakwood Park Retention Pond – SWP23N006

Repairs Needed (12/2010)

Outlet OT23N005



- Much erosion and undermining.
- End section of pipe has been pushed off.



Oakwood Park Retention Pond – SWP23N006

Repairs Needed (12/2010) (Continued)

Outlet OT23N005 (Continued)

- Riprap disturbed



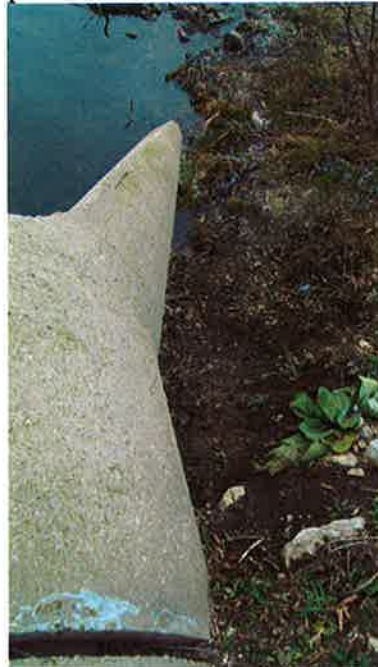
Oakwood Park Retention Pond – SWP23N006

Repairs Needed (12/2010) (Continued)

Outlet OT23N006



- Evidence of erosion present, slight undermining.
- End section pushed off



Oakwood Park Retention Pond – SWP23N006

Repairs Needed (12/2010) (Continued)

Outlet OT23N006 (Continued)

- Riprap disturbed



Overflow Structure ST23N021

- Verify weir is not plugged



Oakwood Park Retention Pond – SWP23N006

Repairs Needed (12/2010) (Continued)

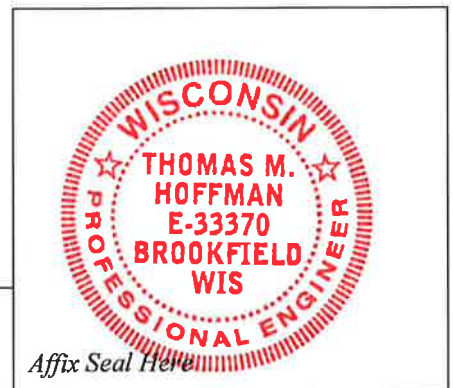
- Woody vegetation in basin(s)



<i>Sketch Outlet</i>	<i>Place Photograph of Pond</i>
	<i>Place Photograph of Pond</i>

Inspection Firm:	VILLAGE OF MENOMONEE FALLS	Inspector Name :	CHRISTOPHER M GARIEPY
Phone Number:	262-532-4411	Inspection Date:	10/19/2010
Address:	W156N8480 PILGRIM RD MENOMONEE FALLS, WI 53051		

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



Date: 7/23/2014	Signature: <i>Thomas M Hoffman</i>
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Affix Seal Here

$$H = 6.59'$$

$$A_1 = 4.945 \text{ AC}$$

$$A_2 = 9.024 \text{ AC}$$

2010

23N006

Oakwood Park Road

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

$$V = \left(\frac{6.59'}{3} \right) (4.945 \text{ AC} + 9.024 \text{ AC} + \sqrt{(4.945 \text{ AC} \times 9.024 \text{ AC})})$$

$$V = (2.20') (13.969 \text{ AC} + \sqrt{13.969 \text{ AC}})$$

$$V = (2.20') (13.969 \text{ AC} + 3.738 \text{ AC})$$

$$V = (2.20') (17.707 \text{ AC})$$

$$\underline{\underline{V = 38.96 \text{ AC FT}}}$$

CMG 12/15/10

Oakwood Park - MNFV0089962003
Pond Inspection 101910 CMG

