



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 33 SE Name of Business/Subdivision RIDGEFIELD SUBDIVISION
Property Tax ID Number 0132176 Address of Property WETLAND

Dry Pond	X
Wet Pond	
Other	

Description: SWP33S006
Q-166 U-331 U-337 U-377

Location Of Pond SOUTH OF GREENVIEW AVE,
NORTH OF SHEFFIELD LN,
EAST OF CHRISTOPHER CT,
WEST OF CHESTNUT CT

Year Pond Constructed 1991 Year of Last Certification 2010

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	15" RCP	15" RCP	-	-	15" RCP IN GOOD CONDITION ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
Upstream Invert (ST011276)	888.30	888.34	-	-	
Downstream Invert (ST011275)	888.10	888.31	-	-	
Length (feet)	35.0 FT	39.1 FT	-	-	
Slope (%)	0.57%	0.07%	-	-	
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 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	N/A	891.67	-	-		
Length of spillway (feet)	N/A	85.0 FT	-	-		
Embankment	Present Yes No		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	-	N				
Animal burrows or slope erosion or hole	-	N				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1 (ST007816)	RCP – 30”		N POND BETWEEN N50		W17525 & W17555 GRNVW AVE	
Outfall 2 (ST007809)	RCP – 18”		SE POND (W173N5009 CHESTNUT CT)			
Outfall 3						
Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	N/A	N/A	-	-	N/A	GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7
Design High Water Elevation	892.00	891.67	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	N/A	-	-	N/A	
Area at Design High Water Elevation (Ac)	-	2.935 AC	-	-		
Active Storage Available (Ac-Ft)*	-	7.558 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	891.00	891.67	-	-		
Average Elevation at Top of Embankment (If Applicable)	892.00	891.90	-	-		
Maximum Bottom Elevation	892.00	890.50	-	-		
Average Pond Bottom Elevation	888.30	888.93	-	-		
Pond Bottom Area (Ac)	-	1.995 AC	-	-		
Maximum Pond Depth	3.7 FT	3.17 FT	-	-		
Average Pond Depth	3.7 FT	2.75 FT	-	-		
Average Permanent Pool Depth (Wet Ponds)	N/A	N/A	-	-	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

Ridgefield Subdivision Retention Pond – SWP33S006 (Sheffield & Greenview)

Overview



Outlet ST007816



Outlet ST007810



Ridgefield Subdivision Retention Pond – SWP33S006 (Sheffield & Greenview)

Inlet ST011276



Outlet ST011275



Emergency Spillway



Ridgefield Subdivision Retention Pond – SWP33S006 (Sheffield & Greenview)

Repairs Needed (10/2015)

If repairs have been completed since 2010, discard repair request.

Outlet ST007816

- End pipe section pushed away from storm sewer pipe.



<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:	11/04/2015
Address:	W156N8480 PILGRIM RD MENOMONEE FALLS, WI 53051		

Certifying Professional Name:	THOMAS M. HOFFMAN, P.E.
Phone Number:	(262) 532-4415

Date: 2/26/16	Signature: 	
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Affix Seal Here

$$H = H_1 - H_2 = 891.67 - 888.50 = 3.17'$$

$$A_1 = 86,891.15 \text{ SF} = 1.995 \text{ AC}$$

$$A_2 = 127,845.0 \text{ SF} = 2.935 \text{ AC}$$

Sheffield + Greenview Pond

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

$$V = \left(\frac{3.17'}{3} \right) (1.995 \text{ AC} + 2.935 \text{ AC} + \sqrt{1.995 \text{ AC} + 2.935 \text{ AC}})$$

$$V = (1.057') (4.93 \text{ AC} + \sqrt{4.93 \text{ AC}})$$

$$V = (1.057') (4.93 \text{ AC} + 2.22 \text{ AC})$$

$$V = (1.057') (7.15 \text{ AC})$$

$$\underline{V = 7.558 \text{ AC FT}} \quad \text{CMG, 2/17/18}$$

~~31133494~~
SWP 83506
2015