



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
Property Tax ID Number
Date November 3, 2020

NW ¼ of Sec 25
MNFV0098151

Name of Business/Subdivision
Address of Property

Weyerhaven Subdivision-Phase 1 & 2
Weyerhaven Drive
Menomonee Falls, WI

Dry Pond	
Wet Pond	X
Other	

Location of
Pond

Large Central Pond P-1

(East of Weyerhaven Blvd
entrance from Lilly Road)

Pond ID: Wet Pond P-1
SWP25N009, SWP25N011

Year Pond
Constructed

2014

Year of Last
Certification

2015

Compliance Verification	Design	Actual	Compliant Yes No		Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	14x23	14x23	X		RCP outlet pipe discharges into ditch line at northeast corner of Lilly Road & Weyerhaven Blvd. Outfall riprap is in good condition.
Upstream Invert	775.7	775.61	X		
Downstream Invert	773.64	773.62	X		
Length (feet)	374	374	X		
Slope (%)	0.55	0.53	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					N/A
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	48	48	X		RCP riser structure built in to the western slope of the pond; in good condition.
Elevation	779.25	779.24	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)	15	15	X		15" diameter PVC outlet pipe extends from the water's edge to the RCP riser structure.	
Elevation	776.30	776.35	X			
Other (Description)						
Opening Type and Size (inches)	19x30	19x30	X		(3) – 19"x30" RCP outlet pipes (with poured in place endwalls) across Weyerhaven Drive provide conveyance of emergency spillway runoff (for events >100-year storm).	
Elevation	777.32	777.23	X			
Emergency Spillway						
Elevation	780.00	780.09	X		Grass vegetation established.	
Length of spillway (feet)	20	20	X			
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X				
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfalls 1 & 2	12" & 30" RCP		Southwest Corner		Stabilized outfall	
Outfall 3	18" RCP		Northeast Corner		Stabilized outfall	
Outfall 4	33" RCP		Southeast Corner		Stabilized outfall	
Outfalls 5, 6 & 7	15", 24" & 15" RCP		NW & NE Expansions		Stabilized outfall	
Storage Properties	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	776.3	776.35	X			GPS (Navcom)
Design High Water Elevation	779.93	779.93	X			GPS (Navcom)
Area at Normal Water Elevation (Ac) (Wet Ponds)	1.77	1.79	X			
Area at Design High Water Elevation (Ac)	2.57	2.60	X			
Active Storage Available (Ac-Ft)*	7.77	7.74	X			
Lowest Elevation at Top of Embankment (If Applicable)	781.0	781.34	X			GPS (Navcom)
Average Elevation at Top of Embankment (If Applicable)	781.0	781.37	X			GPS (Navcom)
Maximum Bottom Elevation	763.0	762.79	X			GPS (Navcom)
Average Pond Bottom Elevation	763.0	762.8	X			Phase 2 Expansion Ave Bottom EI = 770.15 [OK]
Pond Bottom Area (Ac)	0.31	0.31	X			
Maximum Pond Depth	3.7	3.74	X			For ponding depth between Normal Water Elevation and Overflow Spillway
Average Pond Depth	3.7	3.74	X			
Average Permanent Pool Depth (Wet Ponds)	13.3	13.55	X			Phase 2 Expansion = 6.2' [OK]

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

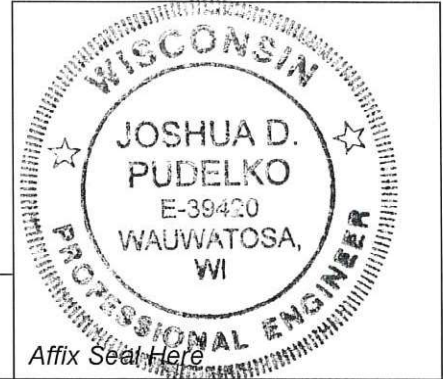
Wet Ponds Use H = Height of Section, $A1$ = area at normal water elevation, $A2$ = area at top section

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

Attach As-built Survey to the Document for the first report submission

Inspection Firm: Trio Engineering, LLC Inspector Name : Joshua D. Pudelko, PE
Phone Number: 262-790-1480 Inspection Date: November 3, 2020
Address: 4100 N. Calhoun Road
Brookfield, WI 53005

Certifying Professional
Name: Joshua D. Pudelko, PE
Phone Number: 262-790-1480



Date: <u>11/4/20</u>	Signature: 
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11-03-2020