



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 SW 1/4, Sec. 1, T8N R20E Name of Business/Subdivision We Energies Service Center CP-24
 Property Tax ID Number MNFV 000391 Address of Property W140 N9100 Lilly Road
 Date 11-19-12 Menomonee Falls, WI 53203

Dry Pond	<input type="checkbox"/>
Wet Pond	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

Location of Pond NE Corner of Parcel

Pond ID: SWP015006
Infiltration Basin Asbuilt

Year Pond Constructed 2011 Year of Last Certification N/A

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)					Not applicable - primary discharge is underdrain.
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Secondary Outlet Pipe (If Applicable)					Outlet Pipe Material
Opening Diameter (inches)					Not applicable.
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser (If Applicable)					Riser Material
Opening Diameter (inches)					Not applicable.
Elevation					
Upper Discharge Control (If Applicable)					
Opening Diameter (inches)					Not applicable.
Elevation					

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
Lower Discharge Control	(If Applicable)					
Opening Diameter (inches)					Not applicable.	
Elevation						
Other (Description)						
Opening Type and Size (inches)					4" underdrain in stone bedding, discharge to wetland.	
Elevation						
Emergency Spillway						
Elevation	763.00	763.55			Higher elevation provides more storage.	
Length of spillway (feet)	14 ft.	30 ft.			Wider spillway provides more diffuse discharge.	
Embankment	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation	X		One tree is at slightly different location than shown on plan.			
Animal burrows or slope erosion		X				
Storm Sewer Outfalls	Type & Size		Location		Comments	
Outfall 1	30" concrete		South side		Good condition	
Outfall 2						
Outfall 3						
Storage Properties	Design	Actual	Compliant		Not Applicable	Equipment Used
	Yes	No				
Normal Water Elevation (Wet Ponds)	N/A					Survey - total station See attached Table and Pond Pack Calculations. As-built pond provides more detention and peak flow reduction than planned plan.
Design High Water Elevation	763.08	763.69				
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A					
Area at Design High Water Elevation (Ac)	0.09	0.098				
Active Storage Available (Ac-Ft)*	0.148	0.203				
Lowest Elevation at Top of Embankment (If Applicable)	765.0	764.4				
Average Elevation at Top of Embankment (If Applicable)	765.0	764.6				
Maximum Bottom Elevation	761.0	761.1				
Average Pond Bottom Elevation	761.0	760.5				
Pond Bottom Area (Ac)	N/A	N/A				
Maximum Pond Depth	N/A					
Average Pond Depth	N/A					
Average Permanent Pool Depth (Wet Ponds)	N/A					

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

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

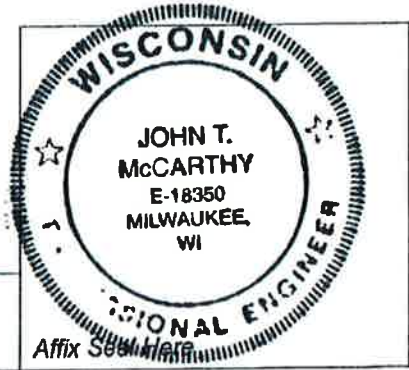
Dry Ponds Use $H = \text{Height of Section}$, $A1 = \text{pond bottom area}$, $A2 = \text{area at top section}$

<p><i>Sketch Outlet or Attach to Document</i></p> <p>See attached survey.</p>	<p><i>Place Photograph of Pond or Attach to Document</i></p> <p>See attached photographs</p>
	<p><i>Place Photograph of Pond or Attach to Document</i></p>

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

Inspection Firm: GRAEF Inspector Name : John T. McCarthy, P.E.
 Phone Number: 414-259-1500 Inspection Date: 10-25-12
 Address: 125 S. 84th Street, Suite 401
 Milwaukee, WI 53214

Certifying Professional Name: John T. McCarthy, P.E.
 Phone Number: 414-266-9102



<p>Date: <u>11-23-12</u></p>	<p>Signature: <u><i>John T. McCarthy</i></u></p>
------------------------------	--

We Energies Service Center -- W140 N9100 Lilly Road -- Infiltration Basin Photographs -- 10/25/12



We Energies Service Center -- W140 N9100 Lilly Road -- Infiltration Basin Photographs -- 10/25/12



We Energies Service Center -- W140 N9100 Lilly Road -- Infiltration Basin Photographs -- 10/25/12



We Energies Service Center -- W140 N9100 Lilly Road -- Infiltration Basin Photographs -- 10/25/12

