



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 11/14/2016

SW 1/4 Sec 33 Name of Business/Subdivision Cranes Crossing
0131064 Address of Property N48 W18200 Lisbon Road

Dry Pond	
Wet Pond	X
Other	

Pond ID: SWP 33s002
Temporary Pond P4

Location of
Pond

North end of Emerald Hills Drive

Year Pond
Constructed 2006

Year of Last
Certification 2010

Compliance Verification	Design	Actual	Compliant Yes	No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	15"	15"	X		CMP stub into RCP
Upstream Invert	878.00	877.91	X		
Downstream Invert	877.88	877.81		X	Downstream pipe appears to be blocked. Downstream MH full of water.
Length (feet)	32.03	35.4	X		
Slope (%)	0.381	0.28	X		
Secondary Outlet Pipe	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					Not Applicable (NA)
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
Riser	(If Applicable)				Riser Material
Opening Diameter (inches)	18"	21"		X	Corrugated Metal Pipe with rebar trash grate
Elevation	879.75	879.69	X		
Upper Discharge Control	(If Applicable)				
Opening Diameter (inches)					NA
Elevation					

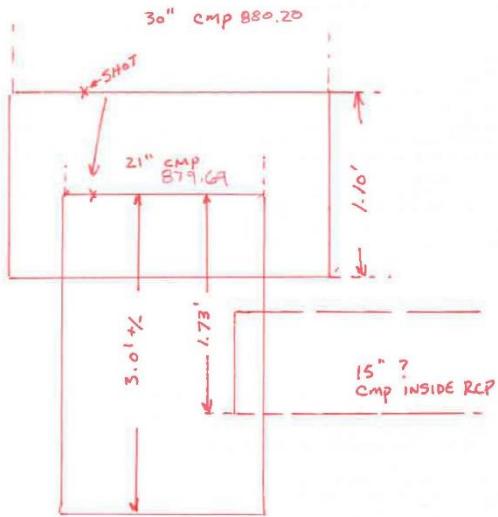
Compliance Verification	Design	Actual	Compliant Yes	No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	2-4" dia.			X	Cannot determine – underwater and not visible.
Elevation	878.00			X	
Other (Description)					
Opening Type and Size (inches)					NA
Elevation					
Emergency Spillway					
Elevation	885.75	885.4±	X		
Length of spillway (feet)	12.0	12±	X		
Embankment	Present Yes		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation	X		Woody vegetation adjacent to outlet structure		
Animal burrows or slope erosion		X			
Storm Sewer Outfalls	Type & Size		Location		Comments
Outfall 1	V-channel		SW corner		Good condition
Outfall 2	24" RCP		South side		Good condition
Outfall 3	18" RCP		SE corner		Good Condition
Storage Properties	Design	Actual	Compliant Yes	No	Equipment Used
Normal Water Elevation (Wet Ponds)	878.00	879.06	X		Total station & GPS
Design High Water Elevation	885.75	885.4	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.5160	0.59	X		
Area at Design High Water Elevation (Ac)	1.0565	1.03	X		
Active Storage Available (Ac-Ft)*	4.7664	4.07		X	
Lowest Elevation at Top of Embankment (If Applicable)	885.0	885.2	X		
Average Elevation at Top of Embankment (If Applicable)	886.25	886.3	X		
Maximum Bottom Elevation	871.0	871.0	X		
Average Pond Bottom Elevation	871.0	872.0	X		
Pond Bottom Area (Ac)	0.1598	0.147	X		
Maximum Pond Depth	7.0	8.0	X		From observed water level
Average Pond Depth	7.0	7.0	X		
Average Permanent Pool Depth (Wet Ponds)	7.0	7.0	X		
HyDrone-Remote Control Survey Boat Platform					

*To Determine Active Storage $V=H/3(A1+A2+(A1xA2)1/2)$

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

Sketch Outlet or Attach to Document



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

Inspection Firm: R.A. Smith National, Inc.
Phone Number: 262-781-1000
Address: 16745 W. Bluemound Road
Brookfield, WI 53005

Inspector Name : Gary E. Raasch
Inspection Date: September 20, 2016

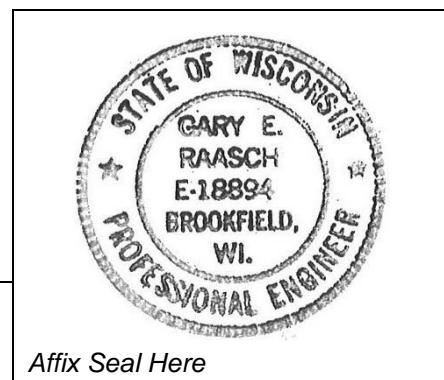
Certifying Professional

Name: Gary E. Raasch
Phone Number: 262-317-3369

Date:
November 14, 2016

Signature:

A handwritten signature in black ink that reads "Gary E. Raasch".



Affix Seal Here

10-3-2012