



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 ¼ Sec 33 Name of Business/Subdivision Cranes Crossing
 Property Tax ID Number 0131064 Address of Property N48 W18200 Lisbon Road
 Date 11/14/2016

Dry Pond	
Wet Pond	X
Other	

Location of Pond North end of Emerald Hills Drive
 Pond ID: SWP 33s002
Temporary Pond P4

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 Downstream pipe appears to be blocked. Downstream MH full of water.
Upstream Invert	878.00	877.91	X		
Downstream Invert	877.88	877.81		X	
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)					NA
Opening Diameter (inches)					NA
Elevation					

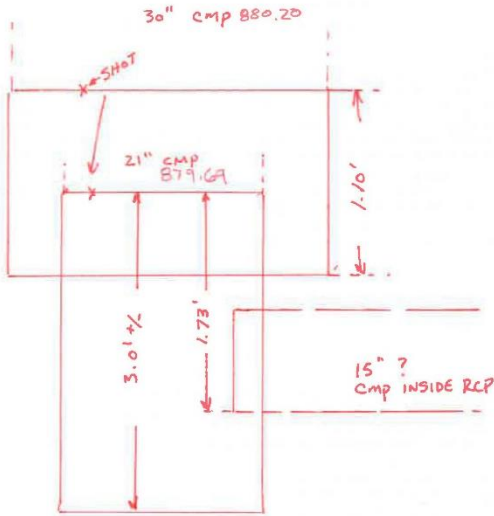
Compliance Verification	Design	Actual	Compliant		Comments		
			Yes	No			
Lower Discharge Control	(If Applicable)						
Opening Diameter (inches)	2-4" dia.			X	Cannot determine – underwater and not visible.		
Elevation	878.00			X			
Other (Description)							
Opening Type and Size (inches)					NA		
Elevation							
Emergency Spillway							
Elevation	885.75	885.4±	X				
Length of spillway (feet)	12.0	12±	X				
Embankment	Present Yes no		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		Not Applicable	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				From observed water level
Average Permanent Pool Depth (Wet Ponds)	7.0	7.0	X				HyDrone-Remote Control Survey Boat Platform

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

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

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

Sketch Outlet or Attach to Document

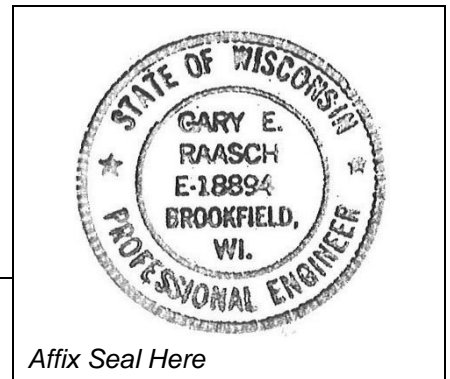


Attach As-built Survey to the Document for the first report submission

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: *Gary E Raasch*

Affix Seal Here