



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 0131037 Address of Property N48 W18200 Lisbon Road  
 Date 11/14/2016

Dry Pond	
Wet Pond	X
Other	

Location of Pond SE corner of Green Crane Drive & Cranes Crossing Blvd.  
 Pond ID: SWP 33s003  
Pond P2E

Year Pond Constructed 2005 Year of Last Certification 2010

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					Outlet Pipe Material
Opening Diameter (inches)	30"	30"	X		RCP
Upstream Invert	877.35	877.68	X		
Downstream Invert	876.75	877.36	X		
Length (feet)	225.03	212.2	X		
Slope (%)	0.155	0.20	X		
<b>Secondary Outlet Pipe</b> (If Applicable)					Outlet Pipe Material
Opening Diameter (inches)					Not Applicable (NA)
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b> (If Applicable)					Riser Material
Opening Diameter (inches)					NA
Elevation					
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter (inches)					NA
Elevation					

Compliance Verification	Design	Actual	Compliant Yes No		Comments	
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter (inches)					NA	
Elevation						
<b>Other (Description)</b>						
Opening Type and Size (inches)					NA	
Elevation						
<b>Emergency Spillway</b>						
Elevation	884.29	883.8	X			
Length of spillway (feet)	10.0	4±	X			
<b>Embankment</b>	Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation		X	Mowed lawn			
Animal burrows or slope erosion		X				
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments	
Outfall 1	15" RCP		West side		Good condition	
Outfall 2	24" RCP		North side		Good condition	
Outfall 3	Riprap swale		Northeast corner		Good condition	
<b>Storage Properties</b>	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	877.35	877.68	X			Total station & GPS            Low on west side
Design High Water Elevation	884.29	883.8	X			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.4695	0.473	X			
Area at Design High Water Elevation (Ac)	0.9278	0.866	X			
Active Storage Available (Ac-Ft)*	3.7363	3.15	X			
Lowest Elevation at Top of Embankment (If Applicable)	885.2	884.0		X		
Average Elevation at Top of Embankment (If Applicable)	885.54	885.0	X			
Maximum Bottom Elevation	870.0	870.0	X			
Average Pond Bottom Elevation	870.0	871.2	X			
Pond Bottom Area (Ac)	0.1212	0.112	X			
Maximum Pond Depth	7.35	7.7	X			
Average Pond Depth	7.35	6.5	X			
Average Permanent Pool Depth (Wet Ponds)	7.35	6.5	X			

\*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

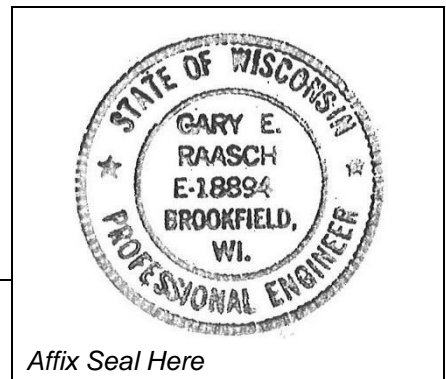


Attach As-built Survey to the Document for the first report submission

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