



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 SE 1/4 Sec.
13-8-20 Name of Business/Subdivision Heritage Reserve Holdings, LLC
 Property Tax ID Number MNFI00519
44052 Address of Property Heritage Reserve
 Date 6/2/15

Dry Pond	<input checked="" type="checkbox"/>	Pond ID: <u>SWP13S016</u>	Location of Pond	Located on the Northeast portion of the property, near Class road
Wet Pond	<input type="checkbox"/>			
Other	<input type="checkbox"/>			

Year Pond Constructed 2005 Year of Last Certification 2014 Design data based on Stantec Memo dated August 5, 2014, File No. 1938990300

Compliance Verification	Design	Actual	Compliant Yes	Comments (Condition of Structure)
Primary Outlet Pipe				Outlet Pipe Material
Opening Diameter (inches)	<u>24"</u>	<u>24"</u>	<input checked="" type="checkbox"/>	<i>Outlet Structure is a typical 18" Reinforced Concrete Pipe with End Wall</i>
Upstream Invert	<u>764.16</u>	<u>764.09</u>	<input checked="" type="checkbox"/>	
Downstream Invert	<u>763.38</u>	<u>763.37</u>	<input checked="" type="checkbox"/>	
Length (feet)	<u>40"</u>	<u>40'</u>	<input checked="" type="checkbox"/>	
Slope (%)	<u>1.95%</u>	<u>1.8%</u>	<input checked="" type="checkbox"/>	
Secondary Outlet Pipe	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)	<u> </u>	<u> </u>		
Upstream Invert	<u> </u>	<u> </u>		
Downstream Invert	<u> </u>	<u> </u>		
Length (feet)	<u> </u>	<u> </u>		
Slope (%)	<u> </u>	<u> </u>		
Riser	(If Applicable)			Riser Material
Opening Diameter (inches)	<u> </u>	<u> </u>		
Elevation	<u> </u>	<u> </u>		
Upper Discharge Control	(If Applicable)			
Opening Diameter (inches)	<u> </u>	<u> </u>		
Elevation	<u> </u>	<u> </u>		

Compliance Verification	Design	Actual	Compliant Yes	No	Comments
Lower Discharge Control	(If Applicable)				
Opening Diameter (inches)	_____	_____			
Elevation	_____	_____			
Other (Description)					
Opening Type and Size (inches)	_____	_____			
Elevation	_____	_____			
Emergency Spillway					
Elevation	766.57	767.60			
Length of spillway (feet)	15'	21'			
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
Outfall 1					
Outfall 2					
Outfall 3					
Storage Properties	Design	Actual	Compliant Yes	No	Equipment Used
Normal Water Elevation (Wet Ponds)	_____	_____			HWL Calculated by HydroCAD Area at HWL Calculated by HydroCAD Trimble R6 GPS
Design High Water Elevation	766.87	766.94	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	_____	_____			
Area at Design High Water Elevation (Ac)	0.202	0.188	X		
Active Storage Available (Ac-Ft)*	0.215	0.153	X		
Lowest Elevation at Top of Embankment (If Applicable)	766.57	766.58	X		Lowest Bottom Elevation
Average Elevation at Top of Embankment (If Applicable)	767.00	768.42	X		
Maximum Bottom Elevation	765.00	765.60	X		
Average Pond Bottom Elevation	765.00	766.00	X		
Pond Bottom Area (Ac)	0.003	0.117	X		
Maximum Pond Depth	2.0'	2.82'	X		
Average Pond Depth	2.0'	2.42'	X		
Average Permanent Pool Depth (Wet Ponds)	_____	_____			

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

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

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

Outlet Sketch

Outlet Structure is a typical 18" Reinforced Concrete Pipe with End Wall

See Attached Photo Document

See Attached Photo Document

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

Inspection Firm: JSD Professional Services, Inc Inspector Name : Ryder Fischer
Phone Number: (262) 513-0666 Inspection Date: 6/2/2015
Address: N22 W22931 Nancys Ct.
Suite 3
Waukesha, WI 53186

Certifying

Professional Name: Rizal Iskandarsjach P.L.S., P.E.

Phone Number: (262) 513-0666

Date:

7/31/15

Signature:

Rizal Iskandarsjach



Affix Seal Here



Figure 1: Overview of Pond Looking South



Figure 2: Overview of Pond Looking Southwest