



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.  
 Property Tax ID Number 13-8-20 Name of Business/Subdivision Heritage Reserve Holdings, LLC  
MNFV00519  
44052 Address of Property Heritage Reserve  
 Date 5/29/2015

Dry Pond	<input checked="" type="checkbox"/>	Pond ID: <u>SWP13S017</u>	Location of Pond	Southeast portion of property
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)
<b>Primary Outlet Pipe</b>				
Opening Diameter (inches)	<u>24"</u>	<u>24"</u>	<input checked="" type="checkbox"/>	24" Reinforced Concrete Pipe
Upstream Invert	<u>764.33</u>	<u>764.35</u>	<input checked="" type="checkbox"/>	
Downstream Invert	<u>763.71</u>	<u>763.89</u>	<input checked="" type="checkbox"/>	
Length (feet)	<u>41'</u>	<u>40'</u>	<input checked="" type="checkbox"/>	
Slope (%)	<u>1.51%</u>	<u>1.15%</u>	<input checked="" type="checkbox"/>	
<b>Secondary Outlet Pipe</b>	(If Applicable)			
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>		
<b>Riser</b>	(If Applicable)			
Opening Diameter (inches)	<u> </u>	<u> </u>		
Elevation	<u> </u>	<u> </u>		
<b>Upper Discharge Control</b>	(If Applicable)			
Opening Diameter (inches)	<u> </u>	<u> </u>		
Elevation	<u> </u>	<u> </u>		

Compliance Verification	Design	Actual	Compliant Yes	No	Comments
<b>Lower Discharge Control</b>	(If Applicable)				
Opening Diameter (inches)	_____	_____			
Elevation	_____	_____			
<b>Other (Description)</b>					
Opening Type and Size (inches)	_____	_____			
Elevation	_____	_____			
<b>Emergency Spillway</b>					
Elevation	766.19	766.18	X		
Length of spillway (feet)	20.0	10.0	X		
<b>Embankment</b>	Present Yes		Comments/Maintenance Requirements		
Unauthorized Plantings, trees, or woody vegetation		X			
Animal burrows or slope erosion		X			
<b>Storm Sewer Outfalls</b>	Type & Size		Location		Comments
Outfall 1	RCP 15"		North portion of pond		
Outfall 2					
Outfall 3					
Storage Properties	Design	Actual	Compliant Yes	No	Equipment Used
Normal Water Elevation (Wet Ponds)	_____	_____			H WL Calculated by HydroCAD  Area at HWL Calculated by HydroCAD  Trimble R6 GPS
Design High Water Elevation	766.65	766.50	X		
Area at Normal Water Elevation (Ac) (Wet Ponds)	_____	_____			
Area at Design High Water Elevation (Ac)	0.171	0.156	X		
Active Storage Available (Ac-Ft)*	0.325	0.305	X		
Lowest Elevation at Top of Embankment (If Applicable)	766.19	766.86	X		Lowest Bottom Elevation
Average Elevation at Top of Embankment (If Applicable)	767.00	767.33	X		
Maximum Bottom Elevation	764.00	764.00	X		
Average Pond Bottom Elevation	764.00	764.00	X		
Pond Bottom Area (Ac)	0.025	0.029	X		
Maximum Pond Depth	2.19	2.86	X		
Average Pond Depth	2.19	2.86	X		
Average Permanent Pool Depth (Wet Ponds)	_____	_____			

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

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*

*The Outlet Structure is a typical 24"  
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: 5/29/2015  
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 Isk*





**Figure 1- Overview of Pond Looking South**



**Figure 2- View of the 24" RCP Outlet Structure**



**Figure 3- View of 15" RCP Outfall Located on the North End of Pond**