



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. Name of Business/Subdivision Heritage Reserve Holdings, LLC  
13-8-20  
 Property Tax ID Number MNFV00519 Address of Property Heritage Reserve  
44002  
 Date 6/2/15

Dry Pond	X
Wet Pond	
Other	

Location of Pond Located on the West Portion  
Property, East of Class Road  
 Pond ID: SWP13S018

Year Pond Constructed 2005 Year of Last Certification \_\_\_\_\_

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					Outlet Pipe Material
Opening Diameter (inches)	_____	15"			Reinforced Concrete Pipe  SWP13S018 is a temporary sedimentation basin that were used for Erosion Control and left in place until the site is fully developed. Design data was not available.
Upstream Invert	_____	767.11			
Downstream Invert	_____	766.09			
Length (feet)	_____	88'			
Slope (%)	_____	1.15%			
<b>Secondary Outlet Pipe</b>			(If Applicable)		
Opening Diameter (inches)	_____	_____			
Upstream Invert	_____	_____			
Downstream Invert	_____	_____			
Length (feet)	_____	_____			
Slope (%)	_____	_____			
<b>Riser</b>			(If Applicable)		
Opening Diameter (inches)	_____	_____			
Elevation	_____	_____			
<b>Upper Discharge Control</b>			(If Applicable)		
Opening Diameter (inches)	_____	_____			
Elevation	_____	_____			

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	_____	_____				
Length of spillway (feet)	_____	_____				
<b>Embankment</b>	Present Yes No		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						
Outfall 2						
Outfall 3						
<b>Storage Properties</b>	Design	Actual	Compliant Yes No		Not Applicable	Equipment Used
Normal Water Elevation (Wet Ponds)	_____	_____				SWP13S018 is a temporary sedimentation basin, so the basin provides minimal storage.  Trimble R6 GPS  Lowest Bottom Elevation
Design High Water Elevation	_____	_____				
Area at Normal Water Elevation (Ac) (Wet Ponds)	_____	_____				
Area at Design High Water Elevation (Ac)	_____	_____				
Active Storage Available (Ac-Ft)*	_____	_____				
Lowest Elevation at Top of Embankment (If Applicable)	_____	768.54				
Average Elevation at Top of Embankment (If Applicable)	_____	769.28				
Maximum Bottom Elevation	_____	767.60				
Average Pond Bottom Elevation	_____	768.00				
Pond Bottom Area (Ac)	_____	0.003				
Maximum Pond Depth	_____	1.68'				
Average Pond Depth	_____	1.28'				
Average Permanent Pool Depth (Wet Ponds)	_____	_____				

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

<p><i>Outlet Structure Sketch</i></p> <p><i>Outlet Structure is a Typical 15" Reinforced Concrete Pipe with End wall</i></p>	<p><i>See Attached Photo Document</i></p>
	<p><i>See Attached Photo Document</i></p>

*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



<p>Date:</p> <p><i>7/31/15</i></p>	<p>Signature:</p> <p><i>Rizal Iskandarsjach</i></p>
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*Affix Seal Here*



Figure 1: Overview of Pond Looking North



Figure 2: 15" Reinforced Concrete Outfall Located on the Southeast Portion of Pond