



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 24 Name of Business/Subdivision Lilly Creek Highlands IV  
 Property Tax ID Number 0096133 Address of Property \_\_\_\_\_

Dry Pond	<input checked="" type="checkbox"/>
Wet Pond	<input type="checkbox"/>
Other	<input type="checkbox"/>

Location Of Pond Outlet 11

Description: Pond #1

Year Pond Constructed 2006

Year of Last Certification 2006

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					
Opening Diameter	15"	15"	✓		
Upstream Invert	777.00	776.25	✓		
Downstream Invert	775.50	774.96	✓		
Length	184	168	✓		
Slope	0.0082%	0.0077%	✓		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter					
Upstream Invert					
Downstream Invert					
Length					
Slope					
<b>Riser</b> (If Applicable)					
Opening Diameter	24"x36"	24"x36"	✓		
Elevation	782.5	781.3	✓		
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter					
Elevation					

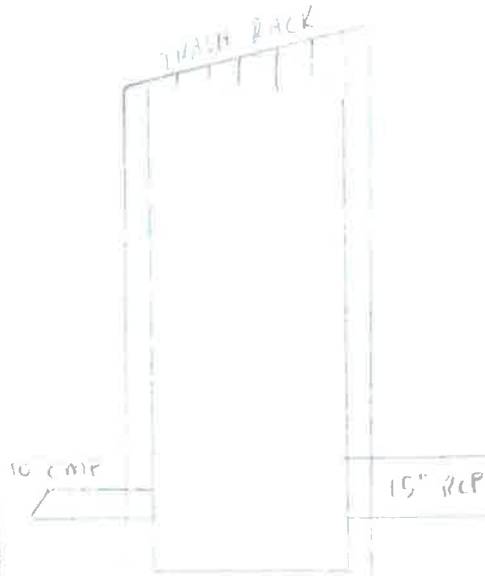
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter						
Elevation						
<b>Other (Description)</b>						
Opening Type	10" CMP	10" CMP	✓			
Elevation	777.00	776.25	✓			
<b>Emergency Spillway</b>						
Elevation	785.1	785.1	✓			
Length of spillway	15'	15'	✓			
<b>Embankment</b>			Present			
			Yes	No		
Unauthorized plantings, trees, or woody vegetation			X		Willow tree growing by outfall.	
Animal burrows or slope erosion				X		
<b>Storage Properties</b>	Design	Actual	Compliant		Points Surveyed	Equipment Used
	Yes	No				
Normal Water Elevation (Wet Ponds)					30	GPS
Design High Water Elevation	786.0	786.0	✓			
Area at Normal Water Elevation (Ac) (Wet Ponds)						
Area at Design High Water Elevation (Ac)	0.38 Ac	0.38 Ac	✓			
Active Storage Available (Ac-Ft)*	1.60	1.63	✓			
Lowest Elevation at Top of Embankment (If Applicable)						
Average Elevation at Top of Embankment (If Applicable)						
Maximum Bottom Elevation	777.0	776.6	✓			
Average Pond Bottom Elevation	777.00	776.5	✓			
Pond Bottom Area (Ac)	0.05 Ac	0.05 Ac	✓			
Maximum Pond Depth						
Average Pond Depth						

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

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

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

Sketch Outlet



NOT TO SCALE



Inspection Firm: Land Tech Surveying and Engineering LLC Inspector Name: John Downing  
 Phone Number: 262-367-7599 Inspection Date: 8/17/11  
 Address: P.O. Box 15  
Hartland, WI 53029

Certifying Professional Name: THEODORE BOONAY  
 Phone Number: 262-255-5845



Date: 8-23-2011 Signature: Theodore Boonay

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STORMWATER MANAGEMENT FACILITIES  
 OPERATION AND INSPECTION REPORT

Quarter Section SE 1/4 Sec. 24 Name of Business/Subdivision Lilly Creek Highlands III  
 Property Tax ID Number 0096131 Address of Property \_\_\_\_\_

Location Of Pond Outlet 9  
 \_\_\_\_\_  
 \_\_\_\_\_

Dry Pond	
Wet Pond	X
Other	

Description: Pond #2

Year Pond Constructed 2004 Year of Last Certification 2006

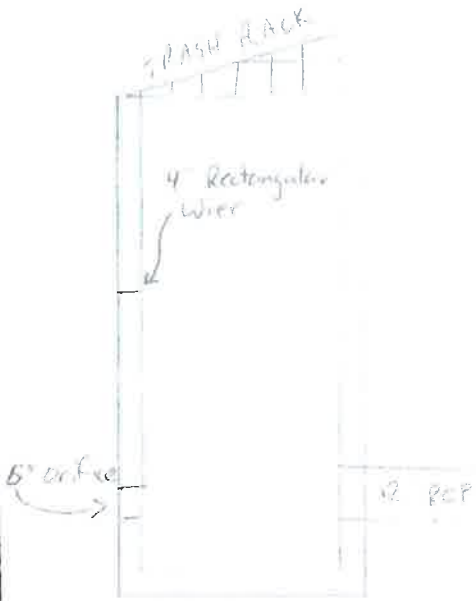
Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					
Opening Diameter	12"	12"	✓		
Upstream Invert	775.00	775.30	✓		
Downstream Invert	774.60	774.00	✓		
Length	96	97	✓		
Slope	0.0042%	0.0134%	✓		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter					
Upstream Invert					
Downstream Invert					
Length					
Slope					
<b>Riser</b> (If Applicable)					
Opening Diameter	24"x36"	24"x36"	✓		
Elevation	780.00	780.16	✓		
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter	4"	4"	✓		4" Rectangular Wier
Elevation	777.75	777.96	✓		

Compliance Verification	Design	Actual	Compliant		Comments		
			Yes	No			
<b>Lower Discharge Control</b>	(If Applicable)						
Opening Diameter							
Elevation							
<b>Other (Description)</b>							
Opening Type	5.3" orifice	6" orifice	✓				
Elevation	775.0	775.30	✓				
<b>Emergency Spillway</b>							
Elevation	780.5	780.5	✓				
Length of spillway	20'	18'	✓				
<b>Embankment</b>			Present Yes No				
Unauthorized plantings, trees, or woody vegetation			X		Willow trees along water-line		
Animal burrows or slope erosion				X			
<b>Storage Properties</b>	Design	Actual	Compliant		Points Surveyed	Equipment Used	
	Yes	No					
Normal Water Elevation (Wet Ponds)	775.0	775.2	✓		40	GPS	
Design High Water Elevation	781.0	781.0	✓		↓		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.24Ac	0.24Ac	✓				
Area at Design High Water Elevation (Ac)	0.54Ac	0.54Ac	✓				
Active Storage Available (Ac-Ft)*	2.25	2.24	✓				
Lowest Elevation at Top of Embankment (If Applicable)	781.50	781.5	✓				
Average Elevation at Top of Embankment (If Applicable)	781.50	781.6	✓				
Maximum Bottom Elevation	770.0	770.0	✓		8	Rope, weight, bobber	
Average Pond Bottom Elevation	770.0	769.9	✓		↓	↓	
Pond Bottom Area (Ac)	0.04Ac	0.04Ac	✓				
Maximum Pond Depth	5.0	5.3	✓				
Average Pond Depth	5.0	5.3	✓		↓	↓	

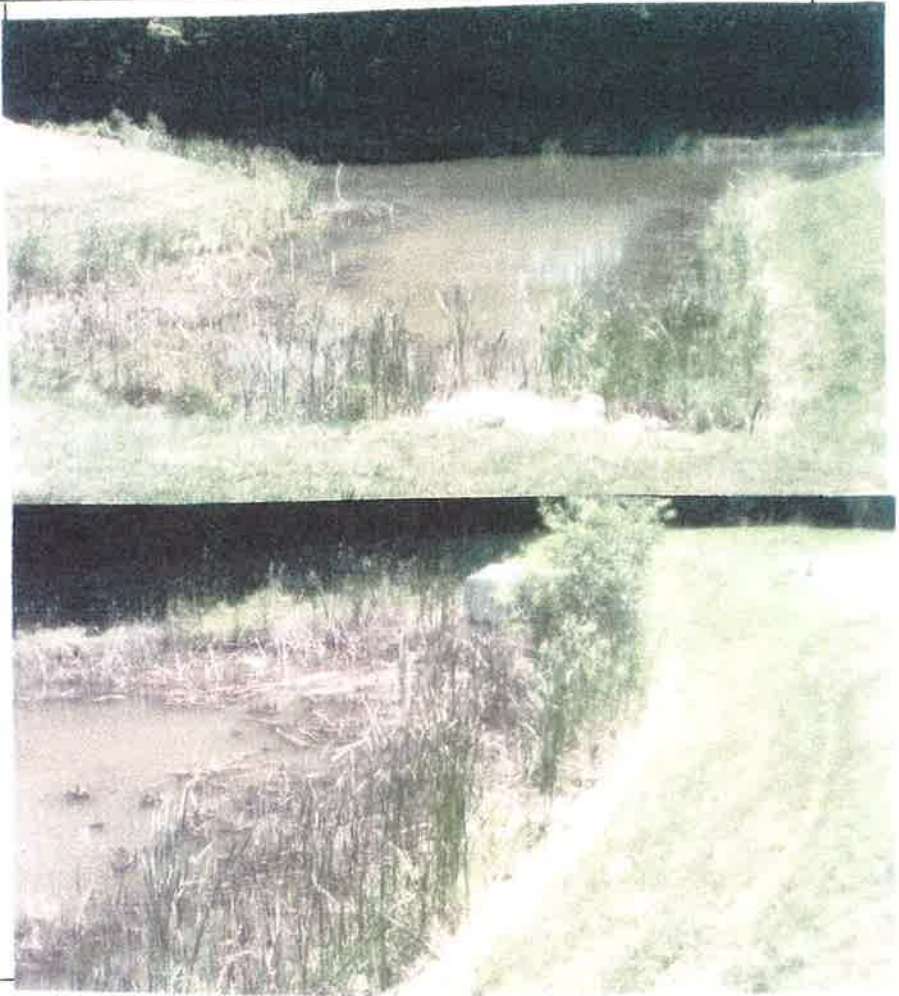
\*To Determine Active Storage  $V=H/3(A1+A2+(A1 \times A2)1/2)$

Wet Ponds Use  $H$  = Height of Section,  $A1$  = area at normal water elevation,  $A2$  = area at top section  
 Dry Ponds Use  $H$  = Height of Section,  $A1$  = pond bottom area,  $A2$  = area at top section

Sketch Outlet



NOT TO SCALE



Inspection Firm: Land Tech Surveying and Engineering, LLC Inspector Name: John Downing  
 Phone Number: 262-367-7599 Inspection Date: 8/17/11  
 Address: P.O. Box 15  
Hartland, WI 53029

Certifying Professional Name: Frederick Bonney  
 Phone Number: 262-255-5845



Date: <u>8-23-2011</u>	Signature: <u>Frederick Bonney</u>
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Quarter Section SE 1/4 Sec. 24 Name of Business/Subdivision Lilly Creek Highlands IV  
 Property Tax ID Number 0096132 Address of Property \_\_\_\_\_

Dry Pond	
Wet Pond	X
Other	

Description: Pond #3

Location Of Pond Outlet 10

Year Pond Constructed 2006

Year of Last Certification 2006

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					
Opening Diameter	12"	12"	✓		
Upstream Invert	778.00	778.09	✓		
Downstream Invert	777.70	777.98	✓		
Length	133	134	✓		
Slope	0.0023%	0.0010%	✓		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter					
Upstream Invert					
Downstream Invert					
Length					
Slope					
<b>Riser</b> (If Applicable)					
Opening Diameter	24"x36"	24"x36"	✓		
Elevation	781.90	782.00	✓		
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter					
Elevation					

Compliance Verification	Design	Actual	Compliant		Comments		
			Yes	No			
<b>Lower Discharge Control</b>	(If Applicable)						
Opening Diameter							
Elevation							
<b>Other (Description)</b>							
Opening Type	4.5" orifice	6" orifice	✓				
Elevation	778.00	778.09	✓				
<b>Emergency Spillway</b>							
Elevation	781.75	781.7	✓				
Length of spillway	10	20	✓				
<b>Embankment</b>			Present				
			Yes	No			
Unauthorized plantings, trees, or woody vegetation			X		willow trees along waterline. Plastic pool in ponds.		
Animal burrows or slope erosion				X			
<b>Storage Properties</b>	Design	Actual	Compliant		Points Surveyed	Equipment Used	
	Yes	No					
Normal Water Elevation (Wet Ponds)	778.0	778.09	✓		25	GPS	
Design High Water Elevation	782.0	782.0	✓		↓		
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.09 Ac	0.09 Ac	✓				
Area at Design High Water Elevation (Ac)	0.16 Ac	0.16 Ac	✓				
Active Storage Available (Ac-Ft)*	0.51	0.50	✓				
Lowest Elevation at Top of Embankment (If Applicable)	782.0	782.1	✓				
Average Elevation at Top of Embankment (If Applicable)	782.0	782.2	✓				
Maximum Bottom Elevation	773.0	773.3	✓			3	Rope, weight, bobber
Average Pond Bottom Elevation	773.0	773.1	✓				
Pond Bottom Area (Ac)	0.01 Ac	0.01 Ac	✓				
Maximum Pond Depth	5.0	5.2	✓				
Average Pond Depth	5.0	5.0	✓				

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

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

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



Sketch Outlet



VOT TO SCALE



Inspection Firm: Land Tech Surveying and Engineering LLC Inspector Name: John Downing  
 Phone Number: 262-367-7549 Inspection Date: 8/17/11  
 Address: P.O. Box 15  
Hartland, WI 53029

Certifying Professional Name: FREDERICK W. BONDY  
 Phone Number: 262-255-5845



Date: 8.23.2011 Signature: [Handwritten Signature]

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