



2007 file

9-5-2012

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 12 8N 20E Name of Business/Subdivision Fairway Village  
 Property Tax ID Number 0047080 Address of Property River Park Dr  
Menomonee Falls, WI

Dry Pond	
Wet Pond	x
Other	

Location Of Pond North of River Park Dr

Description: Pond 1 SWP 12 S 009

Year Pond Constructed 2007 Year of Last Certification 2007

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					
Opening Diameter	12"	12"	x		Good Condition ↓
Upstream Invert	785.0	784.96	x		
Downstream Invert	784.29	784.30	x		
Length	76'	71.4'	x		
Slope	0.93%	0.92%	x		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter					
Upstream Invert					
Downstream Invert					
Length					
Slope					
<b>Riser</b> (If Applicable)					
Opening Diameter					
Elevation					
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter	6"	6"	x		Good Condition ↓
Elevation	787.25	787.52	x		

Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter	4"	4"	x			
Elevation	785.0	785.29	x			
<b>Other (Description)</b>						
Opening Type						
Elevation						
<b>Emergency Spillway</b>						
Elevation	790.5	790.5	x			
Length of spillway	10'	10'	x			
<b>Embankment</b>			Present			
			Yes	No		
Unauthorized plantings, trees, or woody vegetation				x		
Animal burrows or slope erosion				x		
<b>Storage Properties</b>	Design	Actual	Compliant		Points Surveyed	Equipment Used
			Yes	No		
Normal Water Elevation (Wet Ponds)	785.0	785.29	x			Professional survey equipment used - 9/5/12
Design High Water Elevation	789.9	789.9	x			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.078	0.08	x			
Area at Design High Water Elevation (Ac)	0.20	0.22	x			
Active Storage Available (Ac-Ft)*	0.47	0.46	x			
Lowest Elevation at Top of Embankment (If Applicable)						
Average Elevation at Top of Embankment (If Applicable)						
Maximum Bottom Elevation	784	784	x			
Average Pond Bottom Elevation	782	782	x			
Pond Bottom Area (Ac)	0.01	0.01	x			
Maximum Pond Depth	5'	5'	x			
Average Pond Depth	5'	5'	x			

\*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

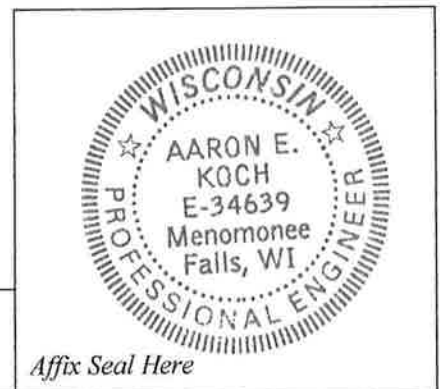
$H_{avg} = 4.9$

$H_{avg} = 4.61$

<p>Sketch Outlet</p> <p>SEE ATTACHED</p>	<p>Place Photograph of Pond</p> <p>SEE ATTACHED</p>
	<p>Place Photograph of Pond</p> <p>SEE ATTACHED</p>

Inspection Firm: DART Engineering      Inspector Name : Aaron E. Koch PE  
 Phone Number: 414 935-4437      Inspection Date: Sept 5 2012  
 Address: 325 E Chicago St St 500  
           Milwaukee, WI 53202

Certifying Professional Name: AARON E. KOCH  
 Phone Number: 414-397-5065



Date: 9/12/12      Signature: [Handwritten Signature]





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STORMWATER MANAGEMENT FACILITIES  
 OPERATION AND INSPECTION REPORT

Quarter Section 12 SN 20E Name of Business/Subdivision Fairway Village  
 Property Tax ID Number 0047081 Address of Property River Park Dr  
Menomonee Falls, WI

Dry Pond	
Wet Pond	x
Other	

Location Of Pond South of River Park Dr

Description: Pond 2 SWP 125008

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

Compliance Verification	Design	Actual	Compliant		Comments (Condition of Structure)
			Yes	No	
<b>Primary Outlet Pipe</b>					
Opening Diameter	12"	12"	x		Good Condition ↓
Upstream Invert	781.50	781.75	x		
Downstream Invert	781.46	781.44	x		
Length	23'	19.35'	x		
Slope	0.16%	1.6%	x		
<b>Secondary Outlet Pipe</b> (If Applicable)					
Opening Diameter					
Upstream Invert					
Downstream Invert					
Length					
Slope					
<b>Riser</b> (If Applicable)					
Opening Diameter					
Elevation					
<b>Upper Discharge Control</b> (If Applicable)					
Opening Diameter	4"	4"	x		Good Condition ↓
Elevation	783.0	783.43	x		

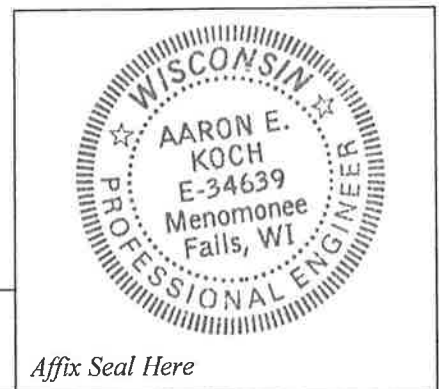
Compliance Verification	Design	Actual	Compliant		Comments	
			Yes	No		
<b>Lower Discharge Control</b>	(If Applicable)					
Opening Diameter	5.5"	6"	x			
Elevation	781.5	781.75	x			
<b>Other (Description)</b>						
Opening Type						
Elevation						
<b>Emergency Spillway</b>						
Elevation	786.5	786.5	x			
Length of spillway	10'	10'	x			
<b>Embankment</b>			Present			
			Yes	No		
Unauthorized plantings, trees, or woody vegetation				x		
Animal burrows or slope erosion				x		
<b>Storage Properties</b>	Design	Actual	Compliant		Points Surveyed	Equipment Used
	Yes	No				
Normal Water Elevation (Wet Ponds)	782.0	781.75	x			Professional survey equipment used - 9/5/12
Design High Water Elevation	785.9	785.9	x			
Area at Normal Water Elevation (Ac) (Wet Ponds)	0.094	0.09	x			
Area at Design High Water Elevation (Ac)	0.21	0.21	x			
Active Storage Available (Ac-Ft)*	0.41	0.43	x			
Lowest Elevation at Top of Embankment (If Applicable)						
Average Elevation at Top of Embankment (If Applicable)						
Maximum Bottom Elevation	781.0	781.0	x			
Average Pond Bottom Elevation	778.5	778.5	x			
Pond Bottom Area (Ac)	0.01	0.01	x			
Maximum Pond Depth	6'	5.75'	x			
Average Pond Depth	6'	5.75'	x			

\*To Determine Active Storage  $V = H/3(A1 + A2 + (A1 \times A2)^{1/2})$   $H_{des} = 3.9$   $H_{act} = 4.15'$   
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

<p>Sketch Outlet</p> <p>SEE ATTACHED</p>	<p>Place Photograph of Pond</p> <p>SEE ATTACHED</p>
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 Phone Number: 414-935-4437      Inspection Date: 9/5/12  
 Address: 325 E Chicago St, St 500  
Milwaukee, WI 53202

Certifying Professional Name: Aaron E. Koch  
 Phone Number: 914-397-5065

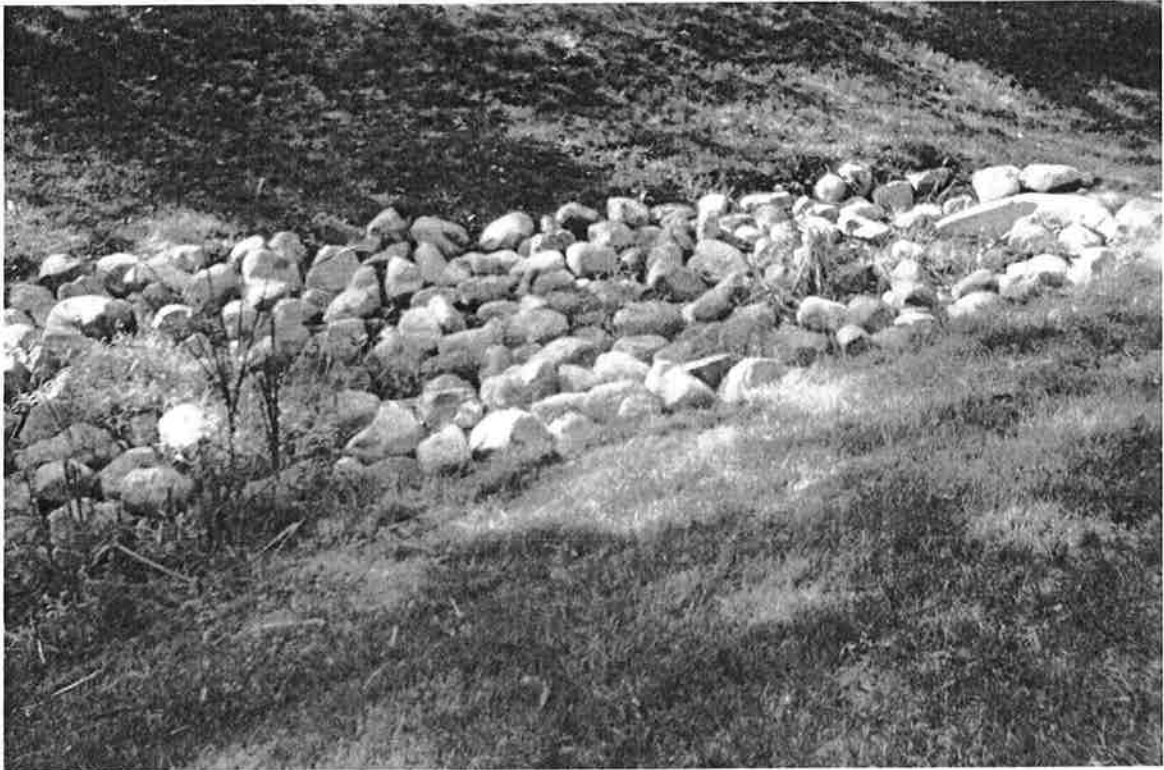


Date: 9/12/12      Signature: [Handwritten Signature]

Affix Seal Here









Rec 9/25/12  
Fairway Village  
LOCAL COMPANY, GLOBAL REACH

## LETTER OF TRANSMITTAL

**To:** Village of Menomonee Falls

**Date:** 9-12-12  
**Project Name:** Fairway Village

**Project Number:** 050120

**RE:** Pond As Built Inspection

### We are

Enclosing

Sending Under Separate Cover

As Requested

# of Copies	Dated	Description
1	September 12, 2012	North & South Pond Inspection & As Built Survey

### Transmitted For Your

Information/Records  
 Action

Review  
 Revision & Resubmittal

Approval  
 Distribution

### Remarks:

*Called + confirmed OK*

**By:** Aaron E. Koch, P.E.

**CC:** \_\_\_\_\_