



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 SW ¼ Sec 23 Name of Business/Subdivision Little League Complex  
Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 23S 002 Location Of Pond Pond #002, See Attached map for location.

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

Compliance Verification	Design	Actual	Compliant Yes    No		Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	12"		Yes		Upstream Outlet – Picture #2 – Minor Erosion around Apron Endwall.  Downstream Outlet – Picture #3 – Good
Upstream Invert	815.40	816.70	No		
Downstream Invert	814.98		Yes		
Length (feet)	72'		Yes		
Slope (%)	0.50%		Yes		
<b>Secondary Outlet Pipe</b>	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)				Riser Material
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		818.00		Yes		Picture #4	
Length of spillway (feet)				Yes			
<b>Embankment</b>		Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation			No				
Animal burrows or slope erosion			No				
<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)							
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)							
Average Elevation at Top of Embankment (If Applicable)		819.00	819.80				
Maximum Bottom Elevation							
Average Pond Bottom Elevation							
Pond Bottom Area (Ac)							
Maximum Pond Depth		3.60'	3.17'				
Average Pond Depth							
Average Permanent Pool Depth (Wet Ponds)							

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

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

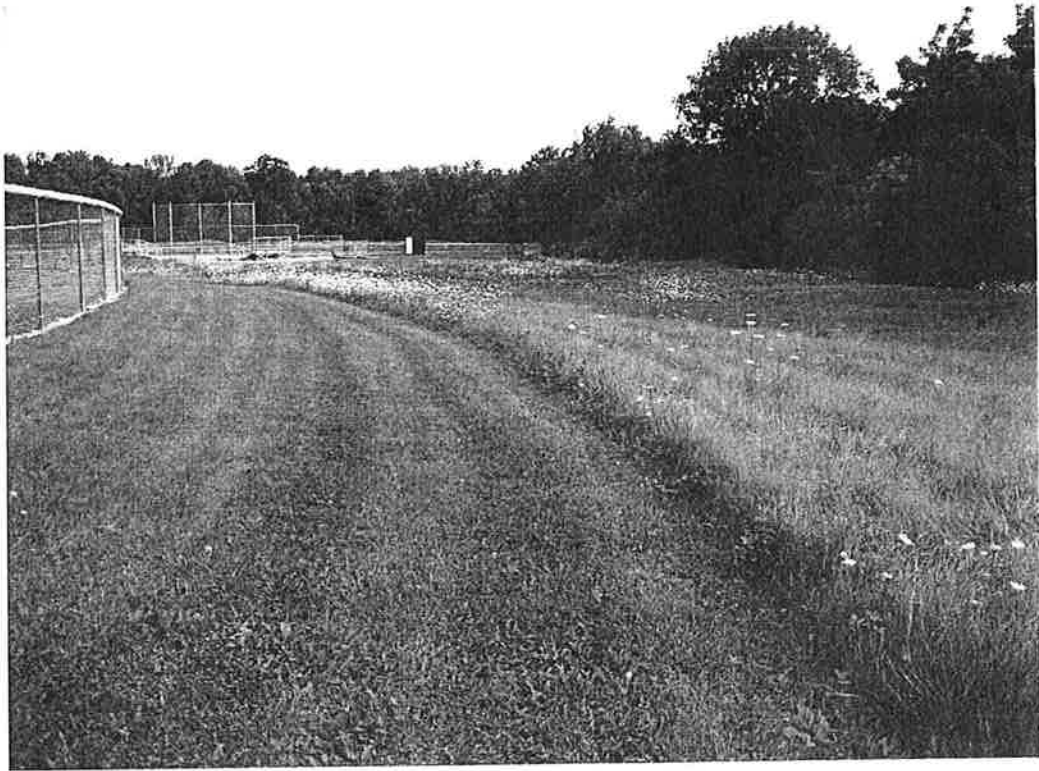
Dry Ponds Use H= Height of Section, A1= pond bottom area, A2=area at top section

<i>Sketch Outlet</i>	<i>Place Photograph of Pond</i> See attached Photos
	<i>Place Photograph of Pond</i>

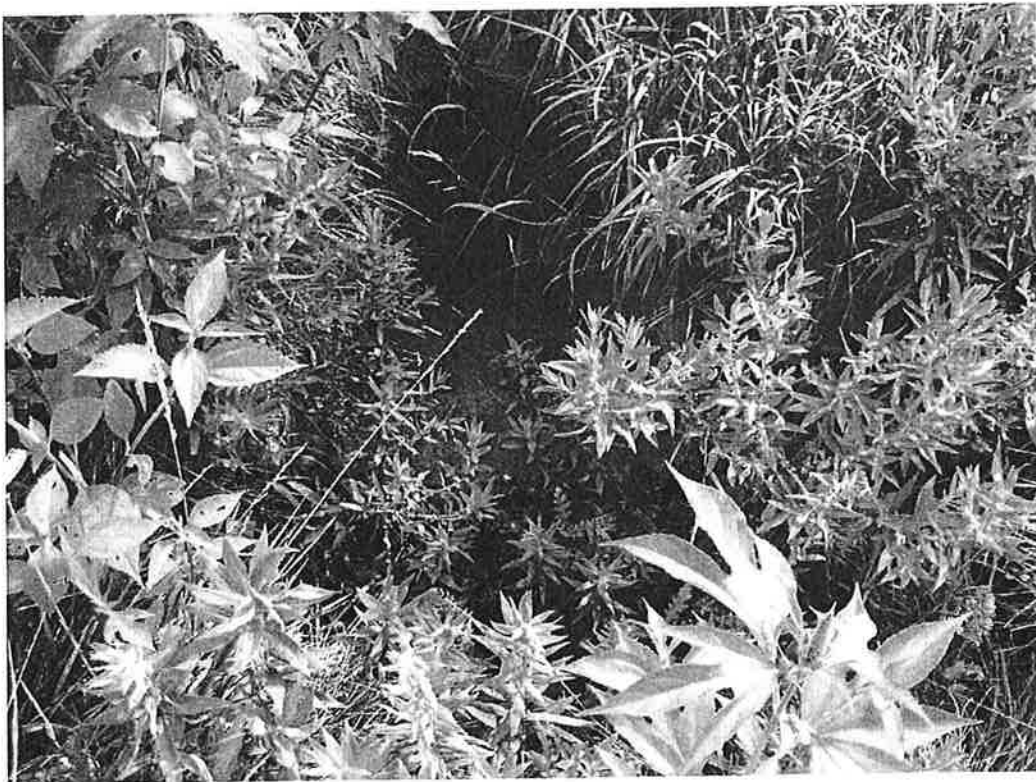
Inspection Firm:	<u>Crispell-Snyder, INC</u>	Inspector Name:	<u>Bryan Greisch</u>
Phone Number:	<u>262-250-8000</u>	Inspection Date:	<u>August 17, 2011</u>
Address:	<u>W175 N11081 Stonewood Dr</u> <u>Suite 103</u> <u>Germantown, WI 53022</u>		

Certifying  
 Professional Name: Troy Hartjes  
 Phone Number: 262-250-8000

<i>Date:</i>	<i>Signature:</i>	<i>Affix Seal Here</i>



#1 - Looking North at Pond #002



#2 - Upstream end of outfall, minor erosion around AEW



#3 - Downstream end of outfall



#4 - Emergency Spillway.



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Quarter Section SW ¼ Sec 23 Name of Business/Subdivision Little League Complex  
 Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 23S 003 Location Of Pond Pond #003, See Attached map for location.

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

Compliance Verification	Design	Actual	Compliant Yes No	Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>				Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	15"		Yes	Upstream Outlet – Picture #3 – Silt fence, Debris in front of pipe, no Apron Endwall.  Downstream Outlet – Picture #4 – Rocks & Silt Fence in Apron Endwall, minimal riprap.
Upstream Invert	812.40	814.01	No	
Downstream Invert	811.98		Yes	
Length (feet)	72'		Yes	
Slope (%)	0.50%		Yes	
<b>Secondary Outlet Pipe</b>	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Riser</b>	(If Applicable)			Riser Material
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		816.00		Yes		Picture #5	
Length of spillway (feet)				Yes			
<b>Embankment</b>		Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation			No				
Animal burrows or slope erosion			No				
<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)							
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)		818.00	817.29	Yes			
Average Elevation at Top of Embankment (If Applicable)							
Maximum Bottom Elevation							
Average Pond Bottom Elevation							
Pond Bottom Area (Ac)							
Maximum Pond Depth		3.60'	3.83'	Yes			
Average Pond Depth							
Average Permanent Pool Depth (Wet Ponds)							

\*To Determine Active Storage  $V = \left( \left( \frac{H}{3} \right) \left( A_1 + A_2 + \left( \left( A_1 + A_2 \right)^{\frac{1}{2}} \right) \right) \right)$

Wet Ponds Use  $H$  = Height of Section ,  $A_1$  = area at normal water elevation,  $A_2$  = area at top section

Dry Ponds Use  $H$  = Height of Section,  $A_1$  = pond bottom area,  $A_2$  = area at top section

<i>Sketch Outlet</i>	<i>Place Photograph of Pond</i> See attached Photos
	<i>Place Photograph of Pond</i>

Inspection Firm:	<u>Crispell-Snyder, INC</u>	Inspector Name:	<u>Bryan Greisch</u>
Phone Number:	<u>262-250-8000</u>	Inspection Date:	<u>August 17, 2011</u>
Address:	<u>W175 N11081 Stonewood Dr</u> <u>Suite 103</u> <u>Germantown, WI 53022</u>		

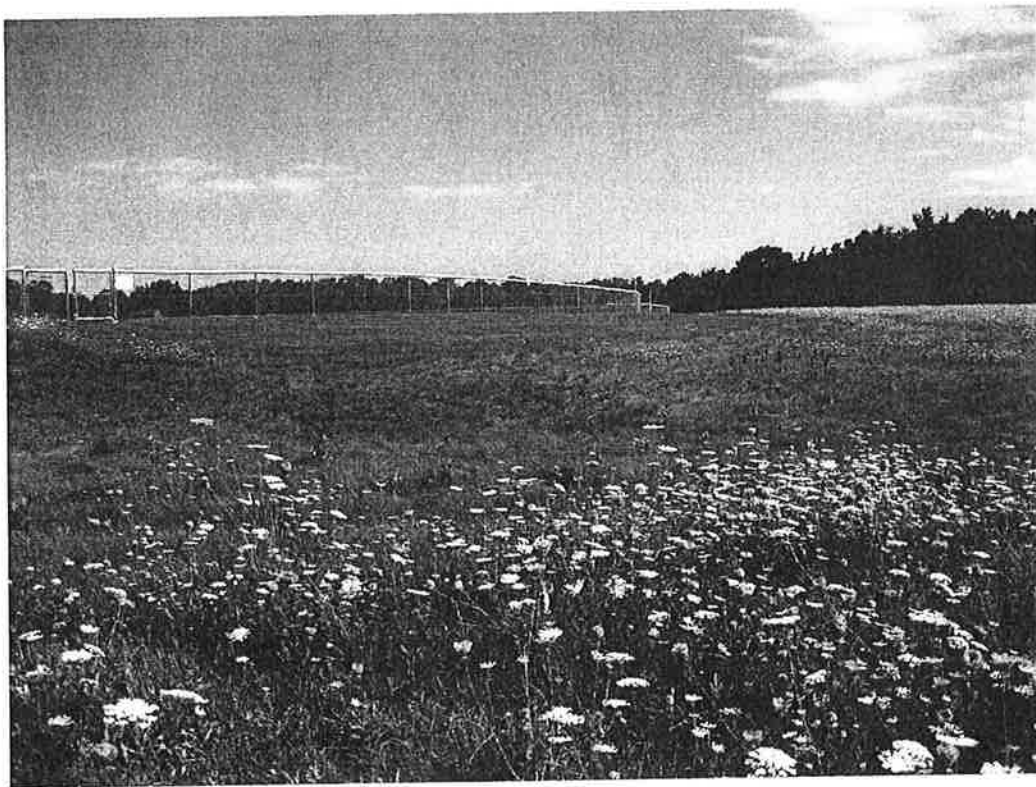
Certifying

Professional Name:	<u>Troy Hartjes</u>
Phone Number:	<u>262-250-8000</u>

<i>Date:</i>	<i>Signature:</i>	<i>Affix Seal Here</i>



#1 - Looking Northeast over Pond #003



#2 - Looking North



#3 - Standing on top of Upstream outlet, silt fence, debris in front of pipe, does not look like AEW was put in or it was pulled out.



#4 - Downstream outfall, rocks and silt fence in AEW.



#5 - Emergency Spillway.



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Quarter Section SW ¼ Sec 23 Name of Business/Subdivision Little League Complex  
Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 23S 004 Location Of Pond Pond #004, See Attached map for location.

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

Compliance Verification	Design	Actual	Compliant Yes    No		Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>					Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	15"		Yes		Upstream Outlet – Picture #6 & 7– minor vegetation around Apron Endwall, Debris in Endwall.  Downstream Outlet – Picture #9 – Hole next to outfall, could be from animal, did not look like from erosion.
Upstream Invert	811.50	811.98	Yes		
Downstream Invert	810.98		Yes		
Length (feet)	98'		Yes		
Slope (%)	0.50%		Yes		
<b>Secondary Outlet Pipe</b>	(If Applicable)				Outlet Pipe Material
Opening Diameter (inches)					
Upstream Invert					
Downstream Invert					
Length (feet)					
Slope (%)					
<b>Riser</b>	(If Applicable)				Riser Material
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		815.00		Yes		Picture #8	
Length of spillway (feet)				Yes			
<b>Embankment</b>		Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation			No	Low spot in SE corner of pond picture #3, regrade to flow out.			
Animal burrows or slope erosion			No	Fix erosion of slope by outfall #3 & 4			
<b>Storm Sewer Outfalls</b>		Type & Size		Location		Comments	
Outfall 1		8" corrugated plastic		SE Corner of Pond		Picture #2, minor area of no vegetation	
Outfall 2		8" corrugated plastic		South side of pond		Pic. #1, minor erosion, over growth	
Outfall 3 & 4		8" corrugated plastic		SW Corner & West Side		Pic. #4 & 5 pipe exposed from erosion	
<b>Storage Properties</b>		Design	Actual	Compliant Yes No		Not Applicable	Comments
Normal Water Elevation (Wet Ponds)							Low spot on SE corner of pond, regrade to flow. Baseball field built in SW corner of pond, so it will affect pond storage from original design.
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)		816.00					
Average Elevation at Top of Embankment (If Applicable)							
Maximum Bottom Elevation							
Average Pond Bottom Elevation							
Pond Bottom Area (Ac)							
Maximum Pond Depth		3.50'	3.02'				
Average Pond Depth							
Average Permanent Pool Depth (Wet Ponds)							

\*To Determine Active Storage  $V = \left( \left( \frac{H}{3} \right) \left( A_1 + A_2 + \left( \left( A_1 + A_2 \right)^{\frac{1}{2}} \right) \right) \right)$

Wet Ponds Use  $H$  = Height of Section,  $A_1$  = area at normal water elevation,  $A_2$  = area at top section

Dry Ponds Use  $H$  = Height of Section,  $A_1$  = pond bottom area,  $A_2$  = area at top section

<i>Sketch Outlet</i>	<i>Place Photograph of Pond</i> See attached Photos
	<i>Place Photograph of Pond</i>

Inspection Firm:	<u>Crispell-Snyder, INC</u>	Inspector Name:	<u>Bryan Greisch</u>
Phone Number:	<u>262-250-8000</u>	Inspection Date:	<u>August 17, 2011</u>
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Certifying  
 Professional Name: Troy Hartjes  
 Phone Number: 262-250-8000

<i>Date:</i>	<i>Signature:</i>	<i>Affix Seal Here</i>



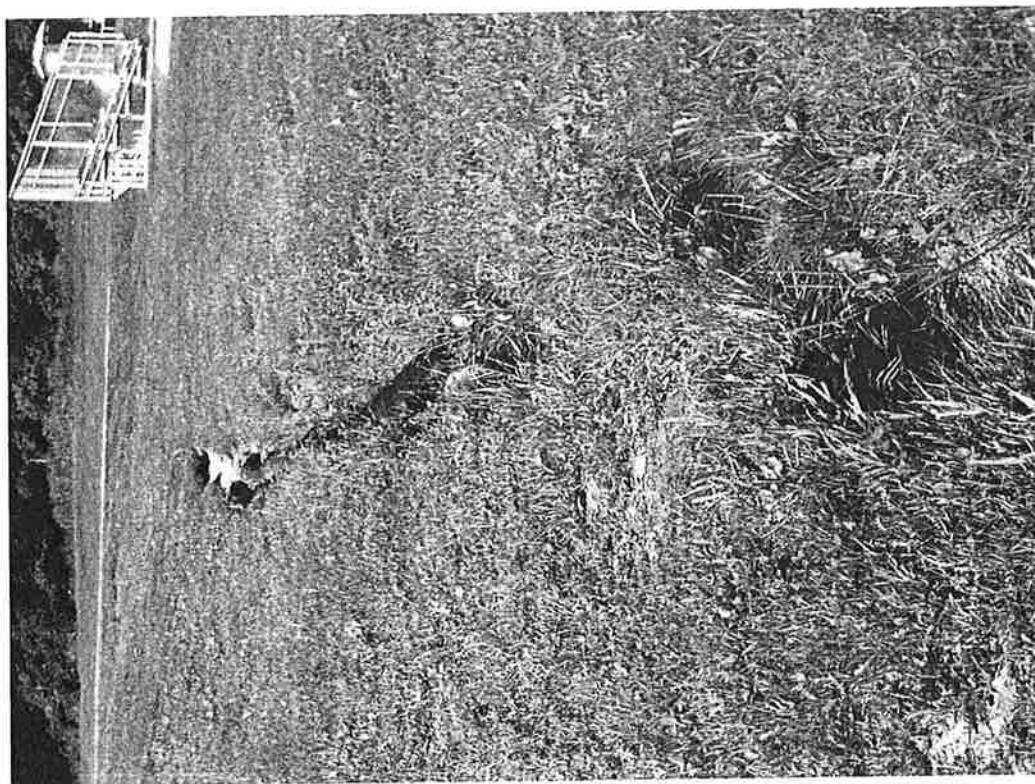
#1 - Storm outfall #2, South side of pond, Minor erosion around riprap, riprap push down slope.



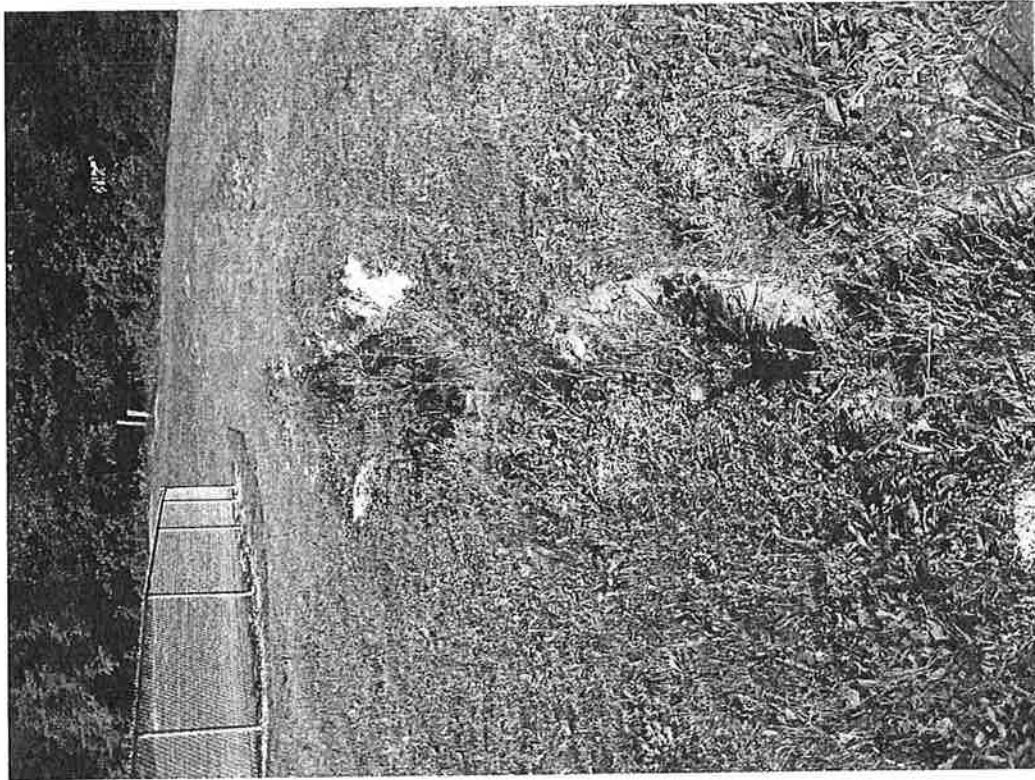
#2 - Storm outfall #1, SE corner of pond, minor areas of dead grass around riprap.



#3 - Low spot in SE corner of pond.



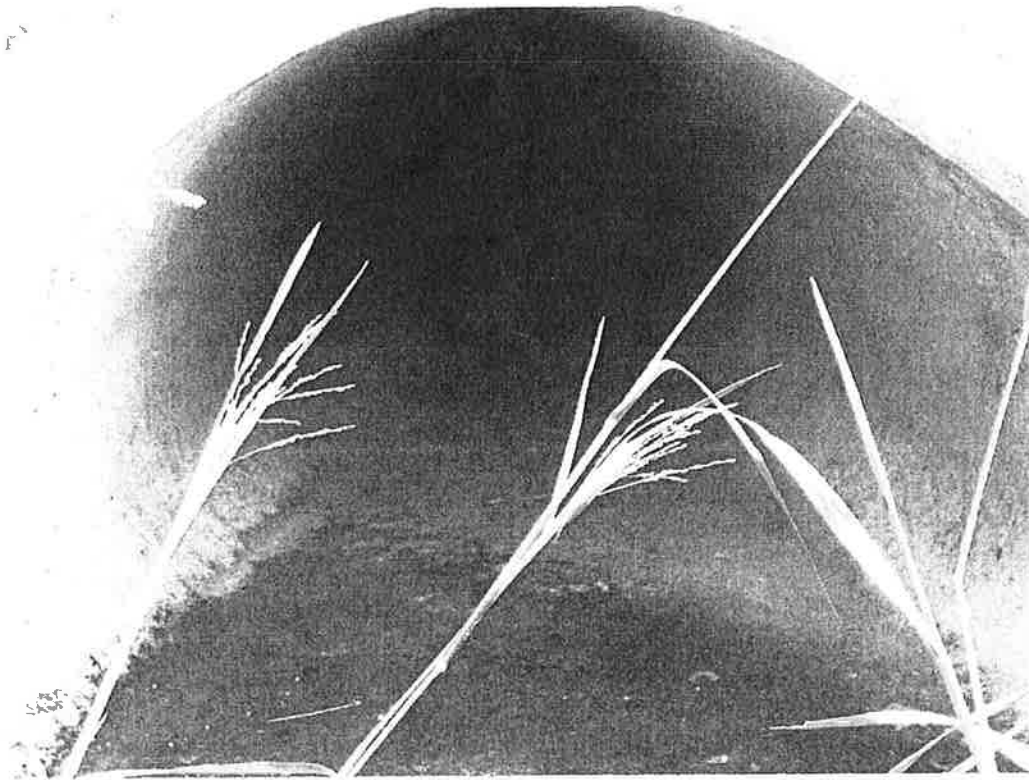
#4 - Storm outfall #3, SW corner of pond, ground eroded away on top of pipe and in front of pipe.



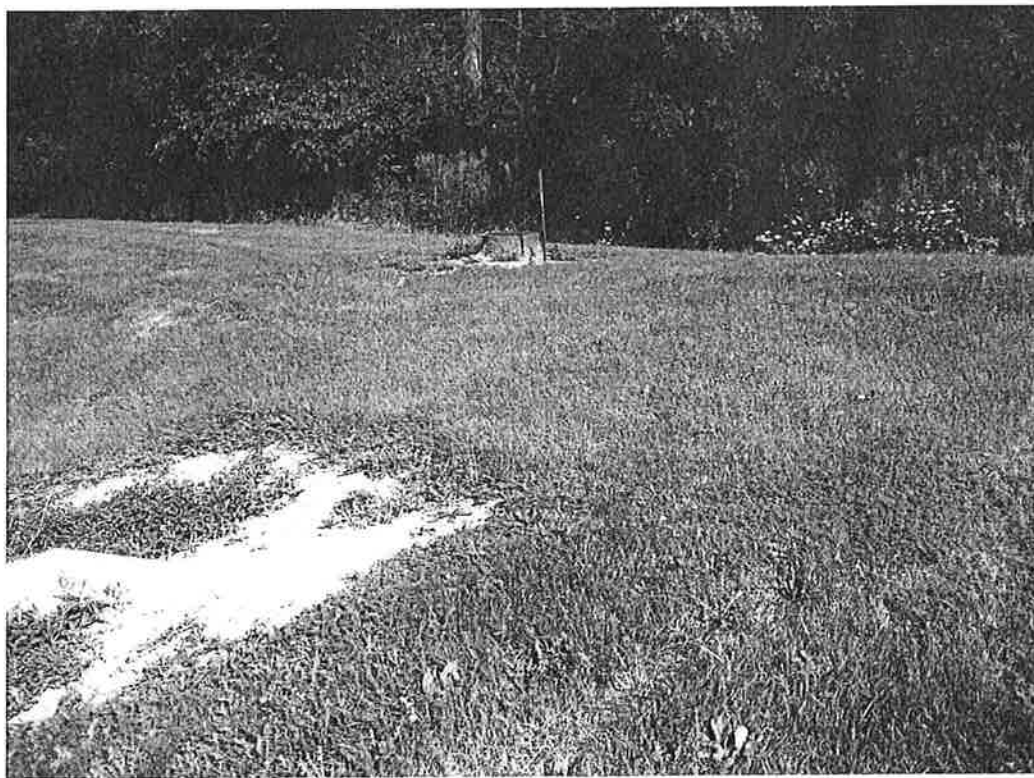
#5 - Storm outfall #4, west side of pond, ground eroded away on top of pipe and in front of pipe.



#6 - Upstream end of outfall, minor vegetation around outfall.



#7 - Upstream end of outfall, debris caught in AEW.



#8 - Emergency Spillway.



#9 - Downstream end of outfall, hole next to outfall, might be from animal.



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Quarter Section SW ¼ Sec 23 Name of Business/Subdivision Little League Complex  
Property Tax ID Number 0091.999 Address of Property Adjacent to Mill Road

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

Description: SWP 23S 005 Location Of Pond Pond #005, See Attached map for location.

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

Compliance Verification	Design	Actual	Compliant Yes No	Comments ( Condition of Structure)
<b>Primary Outlet Pipe</b>				Outlet Pipe Material – Reinforced Concrete
Opening Diameter (inches)	12"		Yes	Upstream Outlet – Picture #3 & 4 – Apron Endwall & Pipe separated, Riprap rocks in AEW, dead grass around endwall  Downstream Outlet – Picture #1 & 2 – Top of Apron Endwall & Pipe Broken out, minor overgrowth of riprap.
Upstream Invert	819.10	819.27	Yes	
Downstream Invert	818.84	818.83	Yes	
Length (feet)	50'		Yes	
Slope (%)	0.50%		Yes	
<b>Secondary Outlet Pipe</b>	(If Applicable)			Outlet Pipe Material
Opening Diameter (inches)				
Upstream Invert				
Downstream Invert				
Length (feet)				
Slope (%)				
<b>Riser</b>	(If Applicable)			Riser Material
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		823.00	821.28	No		Picture #5, Spillway looks like built to the right of	
Length of spillway (feet)				Yes		Outlet, design show it to be over outlet.	
<b>Embankment</b>		Present Yes no		Comments/Maintenance Requirements			
Unauthorized Plantings, trees, or woody vegetation			No	Landscape plan does not show pond in this area, so trees do not match plan, but no issue with trees planted. Embankment along Mill road seems low compared to what was designed. Picture #6			
Animal burrows or slope erosion			No				
<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)							
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)		824.00	821.98		No		
Average Elevation at Top of Embankment (If Applicable)							
Maximum Bottom Elevation							
Average Pond Bottom Elevation		820.00	820.00	Yes			
Pond Bottom Area (Ac)							
Maximum Pond Depth		3.70'	2.01'		No		
Average Pond Depth							
Average Permanent Pool Depth (Wet Ponds)							

\*To Determine Active Storage  $V = \left( \left( \frac{H}{3} \right) \left( A_1 + A_2 + \left( \left( A_1 + A_2 \right)^{\frac{1}{2}} \right) \right) \right)$

Wet Ponds Use  $H$  = Height of Section,  $A_1$  = area at normal water elevation,  $A_2$  = area at top section

Dry Ponds Use  $H$  = Height of Section,  $A_1$  = pond bottom area,  $A_2$  = area at top section

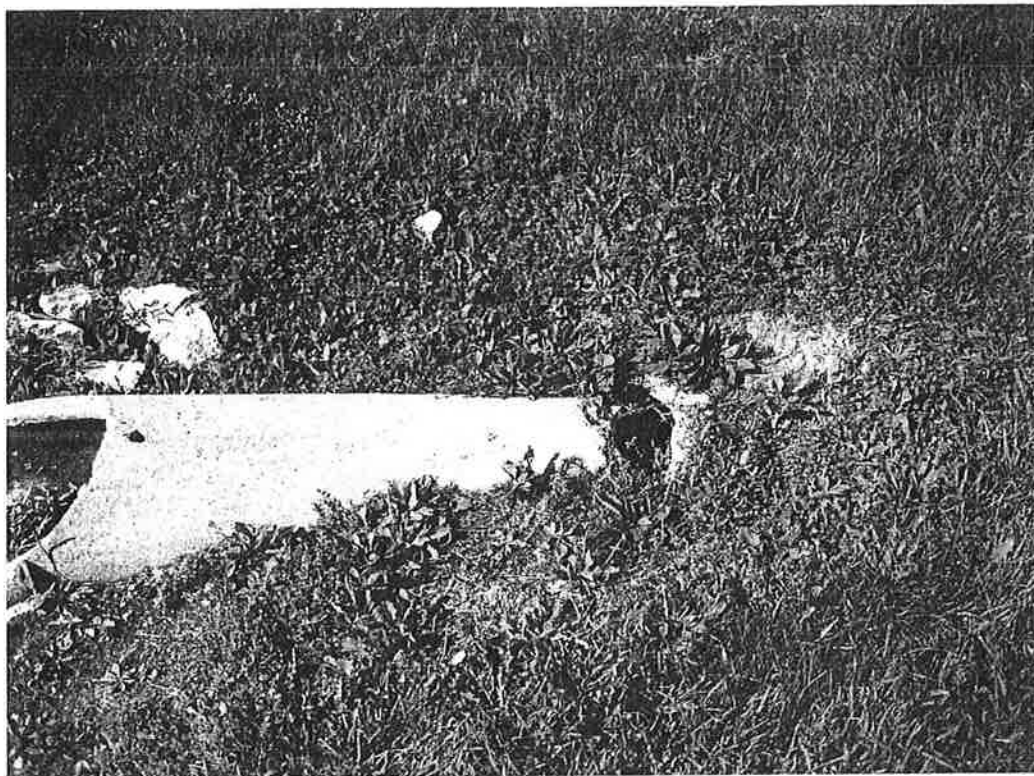
<i>Sketch Outlet</i>	<i>Place Photograph of Pond</i> See attached Photos
	<i>Place Photograph of Pond</i>

Inspection Firm:	<u>Crispell-Snyder, INC</u>	Inspector Name:	<u>Bryan Greisch</u>
Phone Number:	<u>262-250-8000</u>	Inspection Date:	<u>August 17, 2011</u>
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Certifying

Professional Name: Troy Hartjes  
Phone Number: 262-250-8000

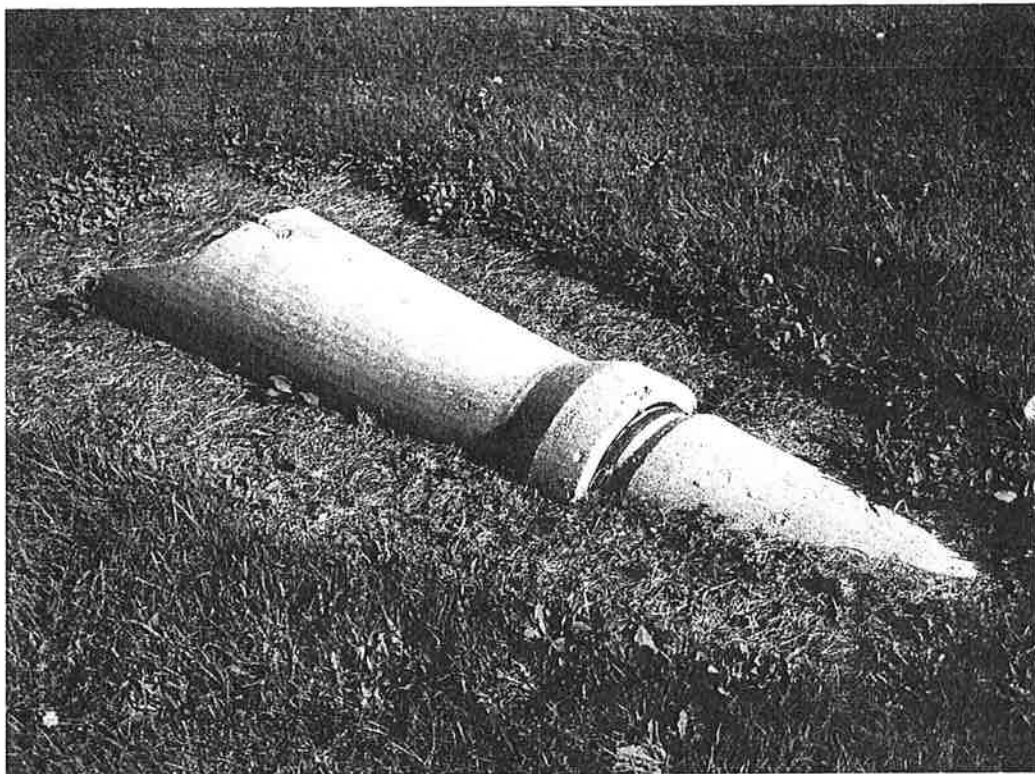
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#1 - Downstream end of outfall, top of AEW and pipe broken out.



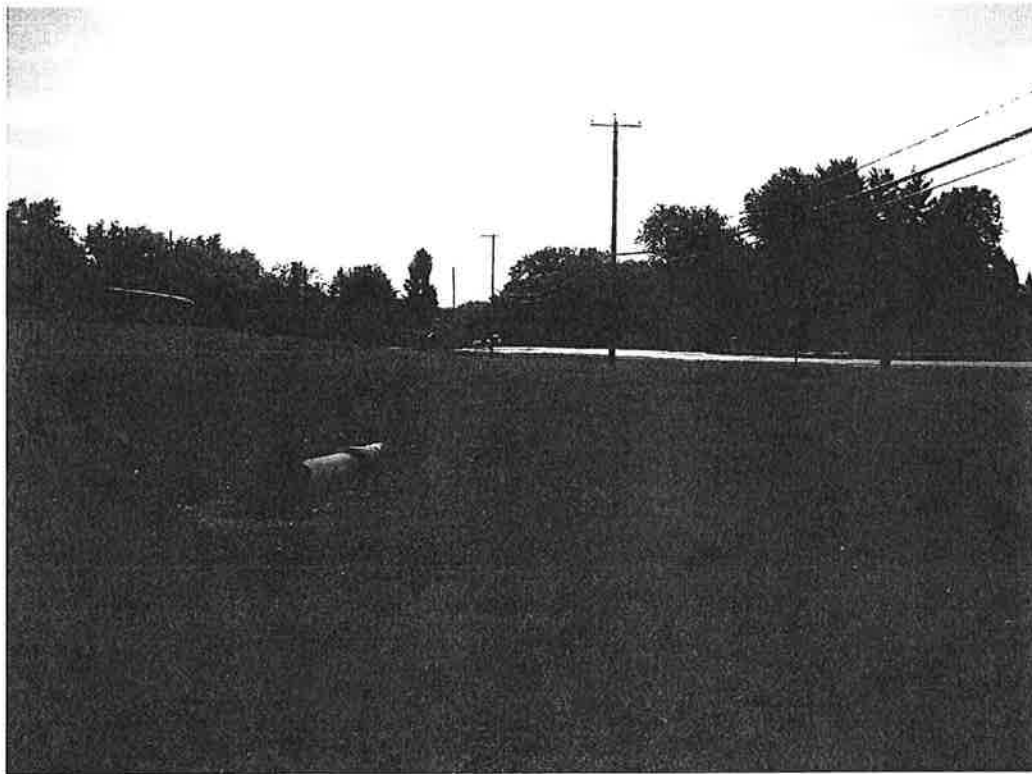
#2 - Downstream end of outfall, riprap getting grown in.



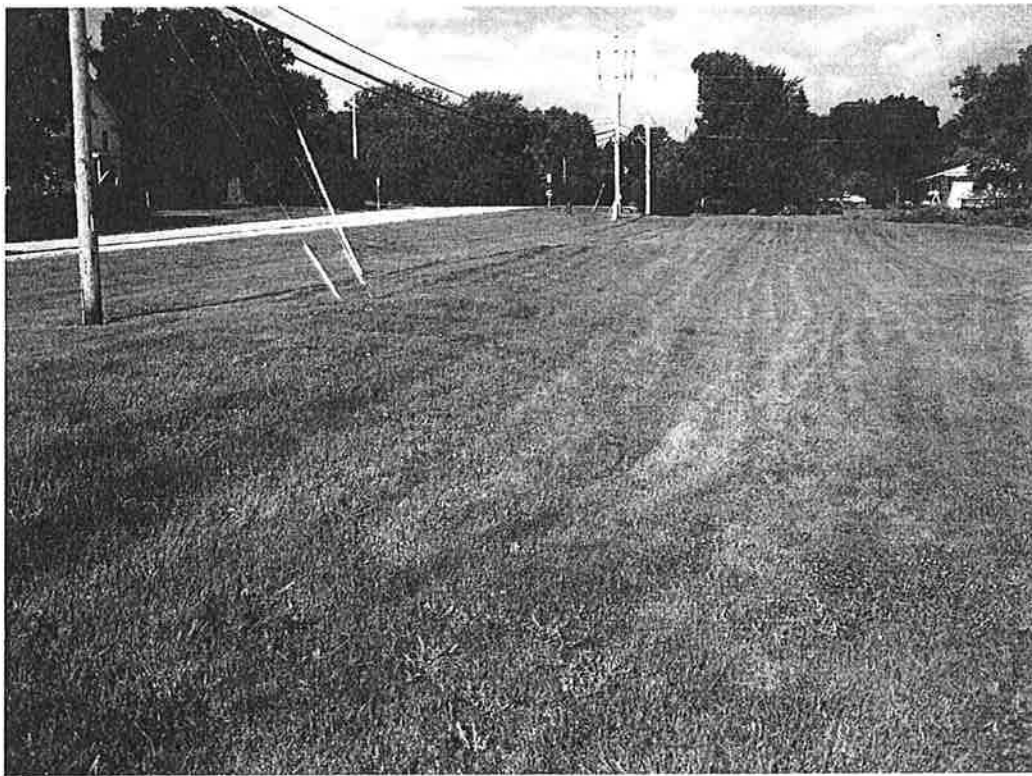
#3 - Upstream end of outfall, AEW separated from pipe.



#4 - Upstream end of outfall, Riprap rocks in AEW, grass died around AEW



#5 - Emergency Spillway built to the right of outfall, designed to be on top of outfall.



#6 South Embankment looking west, seems to be lower than what was designed.