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: 34 SW
Property Tax ID Number: 0135996002
Name of Business/Subdivision: RUSSEL CT WETLAND/POND
Address of Property:

Dry Pond	
Wet Pond	X
Other	

Description: SWP34S002
NO PLANS FOUND

Location Of Pond: EAST OF RUSSEL CT
NORTH OF LISBON RD

Year Pond Constructed: N/A
Year of Last Certification: 2010

Compliance Verification	Design (Non-AsBuilt)	Actual (GPS)	Compliant Yes	Compliant No	Comments (Condition of Structure)
Primary Outlet Pipe					Outlet Pipe Material
Opening Diameter (inches)	N/A	12" PVC	-	-	12" CORRUGATED PVC IN GOOD CONDITION
Upstream Invert (ST011244)	N/A	878.14	-	-	
Downstream Invert (ST011245)	N/A	877.19	-	-	
Length (feet)	N/A	131.1 FT	-	-	
Slope (%)	N/A	0. 72%	-	-	ELEVATIONS TO VARY SLIGHTLY FROM YEAR TO YEAR DUE TO GPS TECHNOLOGY
Secondary Outlet Pipe	N/A				Outlet Pipe Material
Opening Diameter (inches)			-	-	
Upstream Invert			-	-	
Downstream Invert			-	-	
Length (feet)			-	-	
Slope (%)			-	-	
Riser	N/A				Riser Material
Opening Diameter (inches)			-	-	
Elevation			-	-	
Upper Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	

Compliance Verification	Design	Actual	Compliant Yes	No	Comments
Lower Discharge Control	N/A				
Opening Diameter (inches)			-	-	
Elevation			-	-	
Other (Description)	N/A				
Opening Type and Size (inches)			-	-	
Elevation			-	-	
Emergency Spillway					
Elevation	N/A	879.20	-	-	
Length of spillway (feet)	N/A	3.0 FT	-	-	SE CORNER OF POND, S OF ST011244, A DITCH FILLED IN NEAR SE SIDE OF POND

Embankment	Present Yes	No	Comments/Maintenance Requirements
Unauthorized Plantings, trees, or woody vegetation	Y	-	TREES/BRUSH ON EMBANKMENT
Animal burrows or slope erosion or hole	-	N	MUSKRAT/BEAVER NOTED IN POND

Storm Sewer Outfalls	Type & Size	Location	Comments
Outfall 1 (ST011236)	CMP – 15" X 18"	NEAR W167N4887	RUSSEL CT D/W – CMP CRUSHED
Outfall 2 (ST004975)	CMP - 18"	NW CORNER OF	POND @ ROAD – CMP FAIR COND.
Outfall 3 (ST011241)	CAST IRON - 7"	EAST EMBANKMENT	NORTH MOST – FAIR COND
Outfall 4 (ST011243)	CAST IRON - 7"	EAST EMBANKMENT	CENTRAL – FAIR COND
Outfall 5 (ST011246)	CAST IRON - 5"	EAST EMBANKMENT	SOUTH MOST – FAIR COND

Storage Properties	Design (NON-ASBUILT)	Actual (GPS)	Compliant Yes	No	Not Applicable	Equipment Used
Normal Water Elevation *(Wet Ponds)*	N/A	877.75	-	-	N/A	GPS EQUIPMENT: SOKKIA GSR2700ISX & CARLSON SURVEYOR+ WITH SURV CE v1.7
Design High Water Elevation	N/A	879.20	-	-		
Area at Normal Water Elevation (Ac) (Wet Ponds)	N/A	1.600	-	-	N/A	
Area at Design High Water Elevation (Ac)	N/A	1.811 AC	-	-		
Active Storage Available (Ac-Ft)*	N/A	2.540 ACFT	-	-		
Lowest Elevation at Top of Embankment (If Applicable)	N/A	879.20	-	-		
Average Elevation at Top of Embankment (If Applicable)	N/A	880.00	-	-		
Maximum Bottom Elevation	N/A	N/A	-	-		NO MEASUREMENTS TAKEN OF POND BOTTOM
Average Pond Bottom Elevation	N/A	N/A	-	-		NO MEASUREMENTS TAKEN OF POND BOTTOM
Pond Bottom Area (Ac)	N/A	N/A	-	-		NO MEASUREMENTS TAKEN OF POND BOTTOM
Maximum Pond Depth	N/A	N/A	-	-		NO MEASUREMENTS TAKEN OF POND BOTTOM
Average Pond Depth	N/A	N/A	-	-		NO MEASUREMENTS TAKEN OF POND BOTTOM
Average Permanent Pool Depth *(Wet Ponds)*	N/A	N/A	-	-		NO MEASUREMENTS TAKEN OF POND BOTTOM

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

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*

Russell Ct Wetland – SWP34S002

Overview

Inlet ST011235

Outlet ST011236

Russell Ct Wetland – SWP34S002

Culvert ST004976

Culvert ST004975

Inlet ST011244

Outlet ST011245

Russell Ct Wetland – SWP34S002

Emergency Spillway (SE Corner)

Pond Overflow Ditch to Lisbon

Russell Ct Wetland – SWP34S002

Easterly Berm

Looking North

Looking South

Russell Ct Wetland – SWP34S002

Repairs Needed (11/2015)

Recent infill of pond in northeast corner near ST011241 on easterly berm.

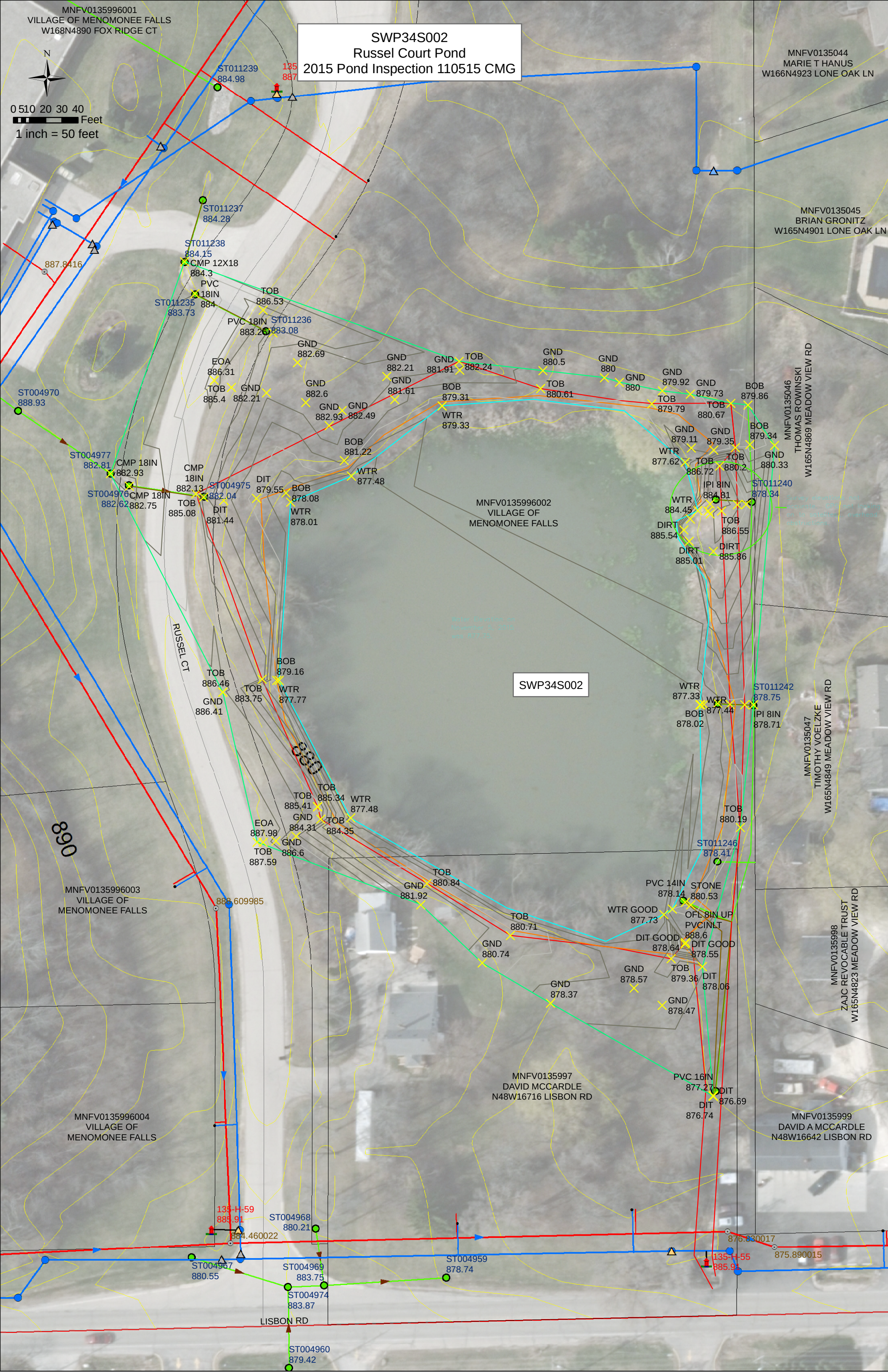
- Are there any concerns regarding the blocking of this ditch on the south side of the pond?

Sketch Outlet	*Place Photograph of Pond*
	Place Photograph of Pond

Inspection Firm:	VILLAGE OF MENOMONEE FALLS	Inspector Name :	CHRISTOPHER M GARIEPY
Phone Number:	262-532-4411	Inspection Date:	11/5/2015
Address:	W156N8480 PILGRIM RD MENOMONEE FALLS, WI 53051		

Certifying
Professional Name: *THOMAS M HOFFMAN, P.E.*
Phone Number: *(262) 532-4415*

Date:	*Signature:*	*Affix Seal Here*
2/26/16		WISCONSIN THOMAS M. HOFFMAN E-33370 BROOKFIELD WIS PROFESSIONAL ENGINEER


SWP34S002
Russel Court Pond
2015 Pond Inspection 110515 CMG
N
0 5 10 20 30 40
Feet
1 inch = 50 feet
MNFV0135996001
VILLAGE OF MENOMONEE FALLS
W168N4890 FOX RIDGE CT
MNFV0135044
MARIE T HANUS
W166N4923 LONE OAK LN
MNFV0135045
BRIAN GRONITZ
W165N4901 LONE OAK LN
MNFV0135046
THOMAS ROWINSKI
W165N4869 MEADOW VIEW RD
MNFV0135047
TIMOTHY VOELZKE
W165N4849 MEADOW VIEW RD
MNFV0135998
ZAJC REVOCABLE TRUST
W165N4823 MEADOW VIEW RD
MNFV0135996002
VILLAGE OF MENOMONEE FALLS
MNFV0135996003
VILLAGE OF MENOMONEE FALLS
MNFV0135996004
VILLAGE OF MENOMONEE FALLS
MNFV0135997
DAVID MCCARDLE
N48W16716 LISBON RD
MNFV0135999
DAVID A MCCARDLE
N48W16642 LISBON RD
RUSSEL CT
LISBON RD
SWP34S002
ST011239 884.98
ST011237 884.28
ST011238 884.15
CMP 12X18 884.3
PVC 18IN 884
ST011235 883.73
TOB 886.53
PVC 18IN 883.26
ST011236 883.08
GND 882.69
EOA 886.31
TOB 885.4
GND 882.21
GND 882.6
GND 882.93
GND 882.49
GND 882.21
GND 881.61
GND 881.91
TOB 882.24
BOB 879.31
WTR 879.33
GND 880.5
TOB 880.61
GND 880
GND 880
GND 879.92
TOB 879.79
GND 879.73
TOB 880.67
BOB 879.86
BOB 879.34
GND 879.11
GND 879.35
WTR 877.62
TOB 886.72
TOB 880.2
GND 880.33
IPI 8IN 884.81
ST011240 878.34
WTR 884.45
DIRT 885.54
TOB 886.55
DIRT 885.01
DIRT 885.86
ST004970 888.93
ST004977 882.81
CMP 18IN 882.93
ST004976 882.62
CMP 18IN 882.75
CMP 18IN 882.13
ST004975 882.04
TOB 885.08
DIT 881.44
DIT 879.55
BOB 881.22
BOB 878.08
WTR 877.48
WTR 878.01
BOB 879.16
TOB 886.46
TOB 883.75
WTR 877.77
GND 886.41
WTR 877.33
WTR 877.44
BOB 878.02
ST011242 878.75
IPI 8IN 878.71
TOB 885.41
TOB 885.34
WTR 877.48
GND 884.31
TOB 884.35
EOA 887.98
GND 886.6
TOB 887.59
TOB 880.19
ST011246 878.41
TOB 880.84
GND 881.92
PVC 14IN 878.14
STONE 880.53
WTR GOOD 877.73
OFL 8IN UP PVCINLT 888.6
TOB 880.71
DIT GOOD 878.64
DIT GOOD 878.55
GND 880.74
GND 878.57
TOB 879.36
DIT 878.06
GND 878.37
GND 878.47
PVC 16IN 877.27
DIT 876.69
DIT 876.74
135-H-59 885.91
ST004968 880.21
884.460022
ST004967 880.55
ST004969 883.75
ST004974 883.87
ST004959 878.74
876.830017
875.890015
135-H-55 885.91
ST004960 879.42
888.609985
890
880

$H = H_1 - H_2 = 879.20 - 877.75 = 1.45'$

$A_1 = 69,707.28 SF = 1.600 AC$

$A_2 = 78,905.91 SF = 1.811 AC$

SWP345002
2015

Russel Cr Pond

$$V = \left(\frac{H}{3}\right)\left(A_1 + A_2 + \sqrt{A_1 + A_2}\right)$$

$$V = \left(\frac{1.45'}{3}\right)\left(1.6AC + 1.811AC + \sqrt{1.6AC + 1.811AC}\right)$$

$$V = (0.483')(3.411AC + \sqrt{3.411AC})$$

$$V = (0.483')(3.411AC + 1.847AC)$$

$$V = (0.483')(5.258AC)$$

$$V = 2.540 Ac\,Ft$$

CAG
2/19/16