

Final Report

Urban Nonpoint Source & Storm Water Construction & Targeted Runoff Management Small-scale Urban TMDL Grant Program

Form 3400-189U (03/16)

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NOTICE: This document is required under s. 281.65 & s. 281.66, Wis. Stats., and chs. NR 153, 154, and 155, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Urban Nonpoint Source & Storm Water and Targeted Runoff Management Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type

☒ Urban Nonpoint Source Construction ☐ TRM Small-scale Urban TMDL

Project & Location Information

Governmental Unit Name		Grant Number
City of De Pere		USC05216Y16
Project Name		
Optimist Park Storm Pond		
County	Watershed Name	12-Digit HUC
Brown	Fox River-Frontal Green Bay	040302040405
Project Contact Name	Phone Number	E-mail Address
Eric Rakers	(920) 339-8304	erakers@mail.de-pere.org

☐ For a project with multiple site locations, an aerial photo map is attached with each site location labeled.

Site Location - 1

Additional sites may be added to the project by clicking the [+ Loc] button.

Site Name				Nearest Receiving Waterbody			
Optimist Park Storm Pond				Fox River			
Quarter/Quarter	Quarter	Section	Township	Range	E / W	Latitude	Longitude
SE	NW	27	23	20	E	44.4395	-88.0587

Summary of Results - 1

Additional BMPs may be added to this site by clicking the [+] button.

Best Management Practice Installed	Surface Area (sq. ft.)	Drainage Area (Acres)	Load Reduction				Total Construction Cost
			TSS %	TSS (tons/yr)	P (lbs/yr)	N (lbs/yr)	
Wet Detention Pond	31,363	53	80	140.4	1,302		\$189,367

Site Location Attachment - 1

Check the box if the required information for the site is attached:

- ☒ Photos of pre-and post-implementation of BMP(s) ☒ Load reduction modeling documents
☒ Aerial photo map of site with BMPs labeled ☐ Water quality monitoring results/summary, if applicable

Site Information - 1

Narrative space will expand to fit.

The Optimistic Park Pond project involved constructing a pond in Optimist Park for an existing urbanized area to reduce phosphorous and sediment loads. The drainage basin consists of 53 acres of a combination of high density residential (4, 8, and 16 unit apartments) and medium residential development.

This area drains directly to the Lower Fox River HUC-12. The TMDL requirements are 72.1% TSS removal for areas of the City that discharge directly to the Lower Fox River. The construction of this pond will help the City toward meeting these goals.

☒ DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project Information

Narrative space will expand to fit.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form and submit it electronically to the DNR Regional Nonpoint Source Coordinator.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments is correct and true.

Name of Authorized Government Official	Title of Authorized Government Official	Date
Eric Rakers	City Engineer	01/22/2018

For DNR Use Only

☒ Received complete reports with all attachments. ☒ Practices implemented were consistent with the grant agreement.

Comments about this project:

None

Name of Nonpoint Source Coordinator	Date
Erin Carviou	01/22/2018

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grants Coordinator. Keep a printed copy for the Region file.



Before













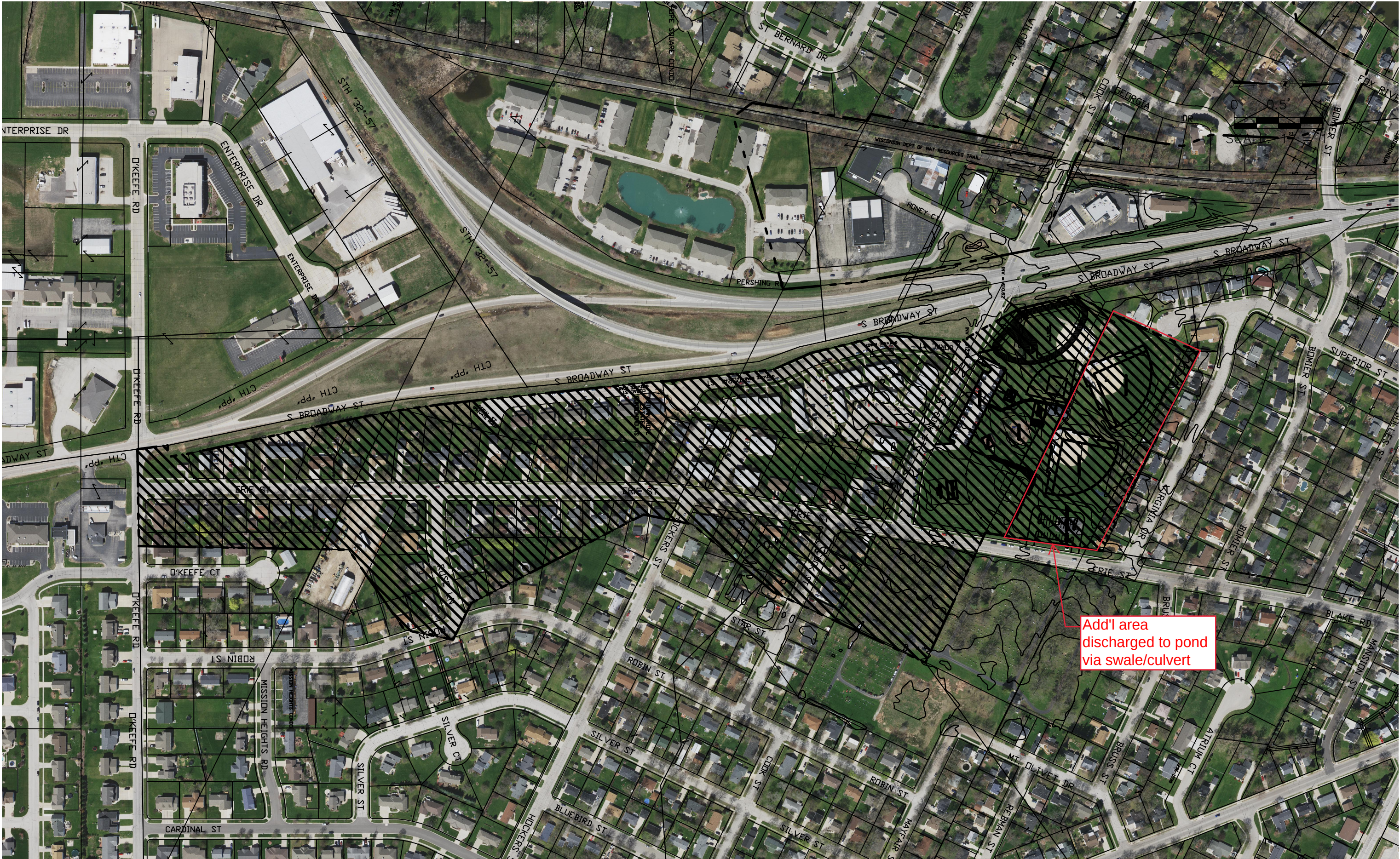


After









SLAMM for Windows Version 10.2.1

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Data file name: X:\GB\2016\20162054\Project_Information\Calcs\WinSlamm\Optimist Park\FE190_Pond.mdb

Data file description:

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Green Bay Five Year Rainfall.ran

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GE003.ppdxd

Start of Winter Season: 11/25 End of Winter Season: 03/29

Model Run Start Date: 01/01/68 Model Run End Date: 12/30/72

Date of run: 04-25-2017 Time of run: 16:10:42

Total Area Modeled (acres): 51.776

Years in Model Run: 5.00

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	5.667E+06	-	158.8	56193	-
Outfall Total with Controls:	5.676E+06	-0.16%	18.36	6505	88.42%
Annualized Total After Outfall Controls:	1.136E+06			1302	

Pollutant	Concentration - No Controls	Concentration - With Controls	Conc. Units	Pollutant Yield No Controls	Pollutant Yield With Controls	Pol. Yield Units	Percent Reduction
Particulate Solids	158.8	18.36	mg/L	56193	6505	lbs	88.42 %
Particulate Phosphorus	0.4203	0.05258	mg/L	148.7	18.63	lbs	87.47 %