City of Marshfield City Hall Plaza 630 S. Central Avenue P.O. Box 727 Marshfield, Wisconsin 54449-0727



Daniel G. Knoeck, P.E. Director of Public Works (715) 486-2034 Fax (715) 384-7631 E-mail: dank@ci.marshfield.wi.us

December 29, 2014

Scott Watson **DNR Service Center** 5301 Rib Mountain Road Wausau, WI 54401

RE:

City of Marshfield

Grant No. USP-CW11-71251-12

Final Report

Dear Mr. Watson:

Enclosed please find the final report associated with the above grant.

This document is being submitted to you to complete the project close out. If you have any questions, please feel free to contact me at 715.486.2034.

Sincerely,

Daniel B. Knock

Daniel G. Knoeck, P.E. (Mba)

Director of Public Works

mba

**Enclosures** 

#### Final Report Form 3400-189 (rev. 7/30/09)

- Targeted Runoff Management Grant Program (ch. NR 153)
- Notice of Discharge Program (ch. NR 153)
- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

**NOTICE**: This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

INSTRUCTIONS: Your grant agreement requires you to submit a Final Report with your final reimbursement request. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR as described in the instructions.

1. GRANT TYPE. Check the one that applies.							
☐ Targeted Runoff Management Grant – Agricultural			☐ Targeted Runoff Management Grant – Urban				
☐ Urban Nonpoint Source & Storm Water Management Grant – Construction			☐ Urban Nonpoint Source & Storm Water Management Grant – Planning				
☐ Notice of Discharge Grant							
2. PROJECT NAME & LOCATION.							
2.1. Project Name:			2.2. Grant Number:				
BMP Feasibility Analysis			USP-C	CW11-71251-12	F.		5
2.3. Governmental Unit Name:			2.4. P	rimary Watershed Name	e:	2.5. Watershe	ed Code:
City of Marshfield			Mill Cı	reek		CW11	
NOTE FOR SECTION 2.6 (which	h follows):						
Section 2.6. includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.						nore than five (5) e than one 12-digit	
2.6 Site Location(s) →	A.	В.		C.		D.	E.
Name of Cost-Share Recipient or Governmental Unit	Marshfield, City	Marshfield, C	ity	Marshfield, City			
Cost-Share Agreement Number (Agricultural only)	N/A	N/A		N/A			
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	070700030201	07070003110	3	070700021703			
Nearest Surface Receiving Water Affected							
Name:	Mill Creek	East Branch Yellow River		Squaw Creek			
Waterbody Identification Code(s) (WBIC):	1398600	1373200		1420700			
Nearest Impaired Water Affected							
Name:	Mill Creek	Yellow River		Wisconsin River		-	
Waterbody Identification Code(s) (WBIC):	1398600	1352800		1179900		,	v
Pollutants Reduced	N/A	N/A		N/A			
Impairments/Impacts	N/A	N/A		N/A			9

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Project Location(s) (cont.) →	A.	В.	C.	D.	E.
Project Coordinates:					
	25N				
Town	26N				
	25N				
	26N				
	3E				
Range	3E				
	2E				
	2E				
	4,5,6,7,8,9,15,16,17, 18,19,20				
Section	31,32,33				
	1,12				
	25, 26, 36				
Quarter		·			
Quarter-Quarter					
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44-66-36				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	90-17-27				

3. SUMMARY OF RESULTS.						
Table A. Agricultural Projects. – Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities						
A.1. Management Measures	Units of Measure	Quantity	Measurement Method Used			
Sheet, rill and wind erosion	Acres meeting "T"	acres				
Manure Storage Facilities:	Number of facilities	facilities				
New Construction/Alterations	Number of animal units	animal units				
Manure Storage Facilities: Closure	Number of facilities	facilities				
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	facilities				
	Number of animal units	animal units				
	Pollutant load reduction	lbs.				
Clean Water Diversions in WQMA	Number of farms with diversions	farms				
	Number animal units	animal units				
Nutrient Management on Agricultural Land	Acres planned	acres				
Prohibition: Manure Storage Overflow	Number of farms	farms				

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	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	lbs.	
	Number of facilities	facilities	
	Number of animal units	animal units	
	Feet of bank protected	feet	
Prohibition: Unlimited Livestock Access	Number of farms	farms	

Table A. Agricultural Projects. (continued) A.2. Other Management Measures	Units of Measure	Quantity	Measurement Method Used
Streambank & Shoreline Protection	Units (use feet, acres or number as applicable) Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable) Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable) Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable) Pollutant load reduction (if method available)		

able B. Urban Construction Projects S	T	Total Control of the	
.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS)	TSS reduced	lbs.	
Reduction for NR 216 communities	TSS reduction	%	
3.2. Other Management Measures			
20-40% Reduction in TSS for	TSS reduced	lbs.	
non-NR 216 communities	TSS reduction	%	
Infiltration	Pre-development stay-on volume	%	
	Stay-on volume	ft³/year	
Peak flow discharge for 2 year/24 hour design storm	Change in cubic feet per second for design year	ft³/sec	
Protective areas	Bank protected	feet	
Fueling & maintenance areas	Oily sheen presence reduced	□Yes □ No	
Ct	Bank erosion reduced	tons	
Streambank & Shoreline Protection	Bank protected	feet	
Other	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		

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Table C. Urban Planning Projects.					
C.1. Governmental unit(s) involved (list by	name):				
Marshfield, City					
C.2. Estimate total acres covered by the	Existing Developed Urban Areas	New Development	Total Acres		
planning product:	acres	acre	8,568.7 acres		
C.3. Products developed (check all below that apply)	lde	ntify Documents by Name (if appl	icable)		
Storm Water Plan	Stormwater Quality Plan, City of M		•		
Construction or Erosion Ordinances	Revisions to Chapter 25 of the Mu June 2014.	nicipal Code were adopted by t	the Marshfield Common Council,		
Post-construction Storm Water Ordinances	Revisions to Chapter 25 of the Mu June 2014.	nicipal Code were adopted by t	the Marshfield Common Council,		
Other Types of Storm Water Quality Ordinances					
Financing Methods: identified and evaluated					
Financing Methods: developed or implemented					
☑ I & E Plan	Resolution 2014-44 adopted by the continue the working arrangement	e Common Council to continue t with the North Central Wiscor	with a cooperative Agreement to sin Stormwater Coalition group.		
☐ I & E Implementation Activities					
Other:					
C.4. Identify the Storm Water goals addressed (check all that apply)					
Reduce TSS	Commenter				
Maintain infiltration	Comments:				
Control Peak Flow	This plannning study was intended BMP analysis that was completed	d to update an earlier city-wide in 2008.	Stormwater Pollution Loading and		
Protective Areas					
Control of Fueling & Maintenance Areas					
Remove Illicit Discharges	]				
Other:					
4. Satisfaction of Notice Require provide information for each notice in the	ements. If cost sharing for this proj	ject was offered under a formal n	otice pursuant to chs. NR 151 or 243,		
Notice Information			Notice Satisfaction Information		
Chs. NR 151 or 243 Notice Type Issue Date	From (Name)	To (Name)	Satisfied? Yes No Date Letter Sent		

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- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

N/A						
5. Additional Information. (Space will expand to	fit your text.)					
While completing this model there were some issues with WinSlamm version 9.4.0 that shut off catch basins once they were 1/2 full. These issues were fixed in the version 10.0.3 for the final plan as submitted. Note the information had to be mannualy re-entered into the new version which was done at an additional expense.						
6. Summary of Project Challenges. (Space v	will expand to fit your text.)					
Funding - As with any of the proposed improvements recommended by the current study, the challenge will be the ability to obtain the necessary funding. The City's stormwater improvements compete against all other capitol improvements for limited tax dollars. Stormwater projets are considered new infrustructure and are typically the first projects to be delayed as opposed to existing facilities like sanitary sewer or roads, which must be maintained.						
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7. Grantee Certification.						
7. Grantee Certification.  Checking here ⊠ certifies that, to the best of your knowledge.	edge, the information contained in this report is correct.					
Checking here Coertifies that, to the best of your knowledge.	,					
Checking here $\boxtimes$ certifies that, to the best of your knowled Name of Authorized Representative (type or print) $\lor$	Title of Authorized Representative (type or print) ↓					
Checking here ⊠ certifies that, to the best of your knowled Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck	Title of Authorized Representative (type or print) ↓  Director of Pubic Works					
Checking here ⊠ certifies that, to the best of your knowled Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative	Title of Authorized Representative (type or print) ↓					
Checking here ⊠ certifies that, to the best of your knowled Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck	Title of Authorized Representative (type or print) ↓  Director of Pubic Works					
Checking here ⊠ certifies that, to the best of your knowledge Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative  Market Authorized Representative	Title of Authorized Representative (type or print) ↓  Director of Pubic Works  Date					
Checking here ⊠ certifies that, to the best of your knowledge Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative  ### Authorized Representative  ### ### ### ### ### ### ### ### ### #	Title of Authorized Representative (type or print) ↓  Director of Pubic Works  Date  12 ~ 26~14					
Checking here ⊠ certifies that, to the best of your knowled Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative  ### Authorized Representative  8. For Departmental Use Only.  Regional NPS Coordinator – Please complete the following	Title of Authorized Representative (type or print) ↓  Director of Pubic Works  Date  12 ~ 26~14					
Checking here ⊠ certifies that, to the best of your knowledge Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative  ### Authorized Representative  ### ### ### ### ### ### ### ### ### #	Title of Authorized Representative (type or print) ↓  Director of Pubic Works  Date  12 - 26-14  Director of Pubic Works					
Checking here ⊠ certifies that, to the best of your knowled Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative  ### Authorized Representative  ### B. For Departmental Use Only.  Regional NPS Coordinator – Please complete the following from the second of the policy of	Title of Authorized Representative (type or print) ↓  Director of Pubic Works  Date  12 ~ 26~14  Ig:  porn the project sponsor:  sport + attachments					
Checking here    certifies that, to the best of your knowled    Name of Authorized Representative (type or print) ↓  Daniel G. Knoeck  Signature of Authorized Representative  ### ### ### ### ### ### ### ### ### #	Title of Authorized Representative (type or print) ↓  Director of Pubic Works  Date  12 ~ 26~14  Director of Pubic Works  Date  15 ~ 26~14  Director of Pubic Works  Date  16 ~ 17 ~ 18 ~ 18 ~ 18 ~ 18 ~ 18 ~ 18 ~ 18					

# Final Report Form 3400-189 (rev. 7/30/09) Targeted Runoff Management Grant Program (ch. NR 153) Notice of Discharge Program (ch. NR 153)

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8.B. Comments about this project: WinsLAMM A field's current TS reduction is bility analysis of 13 new was removing TSS could result in an 99 tons/Yr. Rurrent annual lander necessary as the city prepares for	in estimated TSS reluction in is 319.4 Tons/YND. This	of an additional
8.C. Type or print Name of Regional NPS Coordinator →	Terence M. Kafka	4
8.D. Signature of Regional NPS Coordinator,		8.E. Date 01/09/2015