

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.

- | | |
|---|--|
| <input type="checkbox"/> Targeted Runoff Management Grant – Agricultural | <input type="checkbox"/> Targeted Runoff Management Grant – Urban |
| <input checked="" type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Construction | <input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Planning |
| <input type="checkbox"/> Notice of Discharge Grant | |

2. PROJECT NAME & LOCATION.

2.1. Project Name: 9th and Washburn Area Detention Basin	2.2. Grant Number: USC-UF04-70266-13A	
2.3. Governmental Unit Name: City of Oshkosh	2.4. Primary Watershed Name: Lake Butte Des Motes-Fox River	2.5. Watershed Code: UF04

NOTE FOR SECTION 2.6 (which 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.

2.6 Site Location(s) →	A.	B.	C.	D.	E.
Name of Cost-Share Recipient or Governmental Unit	City of Oshkosh				
Cost-Share Agreement Number (Agricultural only)					
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	040302011205				
Nearest Surface Receiving Water Affected					
Name:	Campbell Creek				
Waterbody Identification Code(s) (WBIC):	139700				
Nearest Impaired Water Affected					
Name:	Lake Winnebago				
Waterbody Identification Code(s) (WBIC):	131100				
Pollutants Reduced	TSS, Phosphorus				
Impairments/Impacts Addressed	Degraded Habitat, Excess Algal Growth				

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	18				
Range	16				
Section	28				
Quarter	NE				
Quarter-Quarter	NE				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44 0 32				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	88 35 9				

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: New Construction/Alterations	Number of facilities	facilities	
	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	
Clean Water Diversions in WQMA	Pollutant load reduction	lbs.	
	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	
	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	
Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
	Number of farms	farms	

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Table A. Agricultural Projects. (continued)			
A.2. Other Management Measures		Units of Measure	Quantity
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)		

Table B. Urban Construction Projects Serving Developed Areas.			
B.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities	TSS reduced	49800 lbs.	WinSLAMM v10.1
	TSS reduction	84 %	WinSLAMM v10.1
B.2. Other Management Measures			
20-40% Reduction in TSS for non-NR 216 communities	TSS reduced	lbs.	
	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	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Streambank & Shoreline Protection	Bank erosion reduced	tons	
	Bank protected	feet	
Other:	Pollutant load reduction (if method available)		
	Units (use feet, acres or number as applicable)		

Table C. Urban Planning Projects.			
C.1. Governmental unit(s) involved (list by name):			
C.2. Estimate total acres covered by the	Existing Developed Urban Areas	New Development	Total Acres

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planning product:	acres	acres	acres
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C.3. Products developed (check all below that apply)	Identify Documents by Name (if applicable)
<input type="checkbox"/> Storm Water Plan	
<input type="checkbox"/> Construction or Erosion Ordinances	
<input type="checkbox"/> Post-construction Storm Water Ordinances	
<input type="checkbox"/> Other Types of Storm Water Quality Ordinances	
<input type="checkbox"/> Financing Methods: identified and evaluated	
<input type="checkbox"/> Financing Methods: developed or implemented	
<input type="checkbox"/> I & E Plan	
<input type="checkbox"/> I & E Implementation Activities	
<input type="checkbox"/> Other:	
C.4. Identify the Storm Water goals addressed (check all that apply)	
<input type="checkbox"/> Reduce TSS	Comments:
<input type="checkbox"/> Maintain infiltration	
<input type="checkbox"/> Control Peak Flow	
<input type="checkbox"/> Protective Areas	
<input type="checkbox"/> Control of Fueling & Maintenance Areas	
<input type="checkbox"/> Remove Illicit Discharges	
<input type="checkbox"/> Other:	

4. Satisfaction of Notice Requirements.

If cost sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Chs. NR 151 or 243 Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

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5. Additional Information. (Space will expand to fit your text.)

6. Summary of Project Challenges. (Space will expand to fit your text.)

The project was delayed due to permit coordination on multiple projects with WDNR and Army Corps of Engineers.

7. Grantee Certification.

Checking here ☒ certifies that, to the best of your knowledge, the information contained in this report is correct.

Name of Authorized Representative (type or print) ↓

John Ferris

Title of Authorized Representative (type or print) ↓

Civil Engineer Supervisor

Signature of Authorized Representative



Date

2-16-2016

8. For Departmental Use Only.

Regional NPS Coordinator – Please complete the following:

8.A. Check here ☒ if you have received the following from the project sponsor:

- one (1) printed, signed, original Final Report + attachments
- one (1) electronic version of Final Report.

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

8.B. Comments about this project:

City plans to complete monitoring in 2016 after wetland planting completed. City will submit results in annual MS4 report.

Approximately 100 acres of drainage area was not connected to pond as planned due to conflict with sanitary sewer during construction. This area will be connected to pond in summer 2017. City to submit revised WinSLAMM modeling.

8.C. Type or print Name of Regional NPS Coordinator →

Erin Hanson

8.D. Signature of Regional NPS Coordinator



8.E. Date

03/01/16

Pre-Construction Photographs

Location of Pre-Construction Photos





1. Southeast corner of the dry basin looking southeast



2. Middle of the dry basin looking due south



3. Southwest corner of dry basin looking southwest



4. Southwest corner of the dry basin looking west



5. View from wet basin looking south toward dray basin



6. View from wet basin looking toward the southwest corner of the dry basin



7. View from the middle of the wet basin looking north toward the outfall



8. East side of wet basin looking north toward outfall



9. Northeast corner of wet basin looking east along the path of the discharge pipe from the basin



10. Southeast corner of the dry basin looking south along the east bank of the dry basin

Post-Construction Photographs

Post-Construction Photos
City of Oshkosh, Contract 15-01
9th & Washburn Storm Water Basin



Picture 1 is taken from behind inflow structure at south end of the basin looking north. Picture was taken just prior to placement of guardrail and grate.



Picture 2 is the completed inflow structure at south end of the basin.



Picture 3 was taken from the Southeast corner of the dry basin looking west toward inflow structure.



Picture 4 was taken at the southeast corner of the basin looking south west toward to inlet structure. Smaller storm pipe discharging into the southeast corner of the dry basin is in the foreground.



Picture 5 was taken from the northwest corner of the wet basin looking east toward the outlet structure located in the northeast corner of the basin.



Picture 6 was taken from the northwest corner of the wet basin looking south along the west side of the wet basin. The dry basin and large inlet structure is seen in the background.

WinSLAMM Output

9thandW_060115 - Output Summary

SLAMM for Windows Version 10.2.0
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Data file name: C:\Doug\Oshkosh\9th and Washburn\400_Technical\423_WinSLAMM Analysis\9thandWashburn_Chapter30\9thandW_060115.mdb
Data file description:
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Green Bay WI 1969.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.ppdX
Start of Winter Season: 11/25 End of Winter Season: 03/29
Model Run Start Date: 01/02/69 Model Run End Date: 12/28/69
Date of run: 06-01-2015 Time of run: 07:36:55
Total Area Modeled (acres): 355.840
Years in Model Run: 0.99

	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:	6.998E+06	-	166.6	72783	-
Outfall Total with Controls:	6.958E+06	0.57%	19.79	8595	88.19%
Annualized Total After Outfall Controls:	7.055E+06			8714	

Pollutant	Concentration - No Controls	Concentration - With Controls	Conc. Units	Pollutant Yield No Controls	Pollutant Yield With Controls	Pol. Yield Units	Percent Reduction
Particulate Solids	166.6	19.79	mg/L	72783	8595	lbs	88.19 %
Particulate Phosphorus	0.4307	0.05248	mg/L	188.2	22.80	lbs	87.88 %
Filterable Phosphorus	0.1690	0.1565	mg/L	73.82	67.97	lbs	7.92 %
Total Phosphorus	0.5996	0.2090	mg/L	262.0	90.77	lbs	65.35 %