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Final Report
 Targeted Runoff Management Grant Program and Urban Nonpoint
 Source and Storm Water Management Grant Program
 Form 3400-189 (R 11/05)

Notice: This final report is authorized by ss. 281.65 and 281.66, Wis. Stats., and chs. NR 153 and NR 155, Wis. Adm. Code. Personally identifiable information collected will be used for program administration and may be made available to requesters as required under Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Instructions: The grant agreement requires grantees to submit a Final Report 60 days after the end date listed in the grant agreement. 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.

1. Grant Type

Agricultural - Targeted Runoff Management Grant

Urban - Targeted Runoff Management Grant

Construction - Urban Nonpoint Source & Storm Water Management Grant

Planning - Urban Nonpoint Source & Storm Water Management Grant

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2. Grantee & Project Information

Project Name Peshtigo River Detention Pond	Grant Number USC-GB07-38271-04
Governmental Unit Name City of Peshtigo	Governmental Unit Type (city, village, town, etc.) City
Watershed Name Lower Peshtigo River	Watershed Code GB07
DNR Water Management Unit (River System) Name Green Bay	Water Body Identification Code (WBIC) (if applicable)

s: 303(d) Waterbody? Yes No

BUREAU OF WATERSHED MGMT

What pollutant(s) were addressed by the project?
suspended solids, phosphorus

For **each** project site location provide the following: (attach additional sheets if necessary)

Location:		A	B	C	D	E
Minor Civil Division Name		City of Peshtigo				
PLSS	Town	30N				
	Range	23E				
	Section	19				
	Quarter					
	Quarter-Quarter	SW/SE				
Latitude		87 44'49"W				
Longitude		45 2'57"N				
Property Owner(s)	Name	City of Peshtigo				
	Mailing address	331 French Street Peshtigo, WI 54157				
Site address (if different than mailing address)		Front Street				

3. Summary of Results

A. Performance Standards and Prohibitions and Other Water Resources Management Priorities

For grants issued in calendar year 2006 or later, complete Tables A and B (following) consistent with the entries on your grant application. For grants issued prior to calendar year 2006, complete Tables A and B, *to the best of your knowledge*, consistent with the entries on your grant application.

Table A. Performance Standards and Prohibitions (per ch. NR 151, Wis. Adm. Code, effective October 1, 2002)

Performance Standard or Prohibition	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting T		
Manure Storage Facilities: New Construction/Alterations	Number of facilities		
	Number of animal units		
Manure Storage Facilities: Closure	Number of facilities		
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities		
	Number of animal units		
Clean Water Diversions in WQMA	Pollutant load reduction		
	Number of farms with diversions		
	Number animal units		
Nutrient Management on Agricultural Land	Acres planned		
Prohibition: Manure Storage Overflow	Number of facilities		
	Number of animal units		
Prohibition: Unconfined Manure Pile in WQMA	Number of farms		
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction		
	Number of facilities		
	Number of animal units		
Prohibition: Unlimited Livestock Access	Feet of bank protected		
	Number of farms		
Urban: 20-40% Reduction in Total Suspended Solids (TSS)	Pounds TSS reduced		
	% TSS reduction	80	SLAMM

Table B. Other Water Resources Management Priorities

I. Agricultural Areas	Units of Measure	Quantity	Measurement Method Used
Buffers	Feet of bank protected		
	Number of farms		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
II. Developed Urban Areas	Units of Measure	Quantity	Measurement Method Used
Urban: 20-40% Reduction in TSS	Pounds TSS reduced		
	% TSS reduction	80	SLAMM
Infiltration	% Pre-development stay-on volume		
	Cubic feet stay-on volume		
Peak flow discharge	Change in cubic feet per second		
Protective areas	Feet of bank protected		
Fueling & maintenance areas	Oily sheen presence		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project decreased storm water impacts on state waters (<i>i.e.</i> , storm water plan, I & E plan, <i>etc.</i>)	Municipalities planned for		
	Acres planned for		
Document/track progress made in implementing the planning product (<i>i.e.</i> , ordinance, utility district evaluation/formation, storm water management plan information & education, <i>etc.</i>)	Municipalities planned for		
	Acres planned for		
Other (specify)			

B. Project Results Narrative

The city acquired land and constructed a storm water detention pond with the grant funds. In addition, a section of storm sewer was constructed to reroute storm water into the new pond. The pond collects approximately 80% of the storm water from the west side of the city prior to discharging to the Peshtigo River. Two storm water outfalls that discharged directly to the river were eliminated. The city is adopting storm water management and erosion control ordinances as required in the grant agreement. The city does not own property greater than 5 acres that is fertilized so a nutrient management plan was not necessary.

The results of water quality monitoring performed before and after the pond construction is attached. Water samples were analyzed for total phosphorus and total suspended solids. Although the data is limited, the pond does demonstrate some improved water quality than prior to the pond construction.

4. Satisfaction of Notice Requirements (if applicable)

If cost sharing for this project was offered under a formal notice to achieve compliance with performance standards or prohibitions, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
N/A				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

5. Summary of Project Challenges

Once the land was acquired, which caused some delay, the project moved very smoothly. The pond contractor did an excellent job and the overall project was a complete success.

6. Additional Information about the Project (optional)

7. Planning Product (UNPS&SW - Planning Projects only)

Check here if a printed copy of the planning product (e.g., plans, ordinances, analyses) was sent to your DNR Regional Nonpoint Source Coordinator.

Name of Document	Date(s) effective	Date Submitted to NPS Coordinator
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8. Grantee Certification:

Check here to certify that, to the best of your knowledge, the information contained in this report is correct and true.

Type or print Name and Title of Authorized Representative certifying here.

J.F. Dale Berman, Mayor

Signature of Authorized Representative

J.F. Dale Berman

Date

2-20-06

Peshtigo River Detention Pond – Sample Results

Before Pond Construction (Two Outfalls)

<u>Date Collected</u>			<u>TSS</u>
4/29/04	<u>Sample #1</u>	<u>Phosphorus</u>	2.0 mg/l
4/29/04	North Outfall	.042 mg/l	2.0 mg/l
	South Outfall	.026 mg/l	4.0 mg/l
	Total	.068 mg/l	

5/8/04	<u>Sample #2</u>		ND
5/8/04	North Outfall	.062 mg/l	6.0 mg/l
	South Outfall	.076 mg/l	6.0 mg/l
	Total	.138 mg/l	

5/24/04	<u>Sample #3</u>		ND
5/24/04	North Outfall	.047 mg/l	2.0 mg/l
	South Outfall	.100 mg/l	2.0 mg/l
	Total	.147 mg/l	

After Pond Construction (One Outfall)

12/8/05	<u>Sample #4</u>	.029 mg/l	ND
12/12/05	<u>Sample #5</u>	.019 mg/l	3.0 mg/l
12/20/05	<u>Sample #6</u>	.014 mg/l	ND

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

Printed: 05/10/04 Code: S Page 1 of 1
NLS Project: 81021
NLS Customer: 26840
Phone: 715 582 0545

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

Client: Peshigo Dept Public Works
Attn: Steve Cota
City Hall
331 French Street (PO Box 100)
Peshigo, WI 54157 0100

Project: Storm Water Samples

North Outfall 4/29 1,2 NLS ID: 337919

Ref. Line 1 COC 68912 North Outfall 4/29 1,2 Matrix: SW

Collected: 04/29/04 09:30 Received: 05/01/04

Notes: Noncompliance: Sample(s) received at 11.1 degrees C, which is above WDNR protocol of 4 degrees C.

Parameter

Phosphorus, tot. as P

Solids, tot. susp. (TSS)

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.042	mg/L	1	0.0070*		05/10/04	EPA 365.2	721026460
2.0	mg/L	1	1.0*		05/04/04	EPA 160.2	721026460

South Outfall 4/29 1,2 NLS ID: 337920

Ref. Line 3 COC 68912 South Outfall 4/29 1,2 Matrix: SW

Collected: 04/29/04 09:30 Received: 05/01/04

Notes: Noncompliance: Sample(s) received at 11.1 degrees C, which is above WDNR protocol of 4 degrees C.

Parameter

Phosphorus, tot. as P

Solids, tot. susp. (TSS)

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.026	mg/L	1	0.0070*		05/10/04	EPA 365.2	721026460
2.0	mg/L	1	1.0*		05/04/04	EPA 160.2	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection
DWB = Dry Weight Basis
MCL = Maximum Contaminant Levels for Drinking Water Samples

LOQ = Limit of Quantitation
NA = Not Applicable
%DWB = (mg/kg DWB) / 10000

ND = Not Detected

10000 ug/L = 1 mg/L

Reviewed by: 

Authorized by:
R. T. Krueger
President

SAMPLE 1
BEFORE POND
2 OUT FALLS

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI000034
 Printed: 05/17/04 Code: S Page 1 of 1

Client: Peshtigo Dept Public Works
 Attn: Steve Cota
 City Hall
 331 French Street (PO Box 100)
 Peshtigo, WI 54157 0100

NLS Project: 81188
NLS Customer: 26840
 Phone: 715 582 0545

Project: Storm Water Samples

North Outfall 5/8 1&2 NLS ID: 338469

Ref. Line 1 COC 68911 North Outfall 5/8 1&2 Matrix: SW
 Collected: 05/08/04 09:30 Received: 05/11/04

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.062	mg/L	1	0.0070*		05/14/04	EPA 365.2	721026460
Solids, tot. susp. (TSS)	ND	mg/L	1	1.0*		05/13/04	EPA 160.2	721026460

South Outfall 5/8 1&2 NLS ID: 338470

Ref. Line 3 COC 68911 South Outfall 5/8 1&2 Matrix: SW
 Collected: 05/08/04 09:45 Received: 05/11/04

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.076	mg/L	1	0.0070*		05/14/04	EPA 365.2	721026460
Solids, tot. susp. (TSS)	6.0	mg/L	1	1.0*		05/13/04	EPA 160.2	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected 1000 ug/L = 1 mg/L
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000

MCL = Maximum Contaminant Levels for Drinking Water Samples

Reviewed by: 
 Authorized by: R. T. Krueger
 President

SAMPLE 2
 BEFORE POND
 2 OUT FALLS

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. W100034

Printed: 05/28/04 Code: S Page 1 of 1
NLS Project: 81547
NLS Customer: 26840
Phone: 715 582 0545

Client: Peshtigo Dept Public Works
Attn: Steve Cota
City Hall
331 French Street (PO Box 100)
Peshtigo, WI 54157 0100

Project: Storm Water Samples

North Outfall 5/24 Grab NLS ID: 340029

Ref. Line 1 COC 68910 North Outfall 5/24, Grab Matrix: WW
Collected: 05/24/04 10:00 Received: 05/25/04

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.047	mg/L	1	0.0070*		05/27/04	EPA 365.2	721026460
Solids, tot. susp. (TSS)	ND	mg/L	1	1.0*		05/27/04	EPA 160.2	721026460

South Outfall 5/24 Grab NLS ID: 340030

Ref. Line 3 COC 68910 South Outfall 5/24, Grab Matrix: WW
Collected: 05/24/04 10:15 Received: 05/25/04

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.10	mg/L	1	0.0070*		05/27/04	EPA 365.2	721026460
Solids, tot. susp. (TSS)	2.0	mg/L	1	1.0*		05/27/04	EPA 160.2	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection
DWB = Dry Weight Basis
MCL = Maximum Contaminant Levels for Drinking Water Samples
LOQ = Limit of Quantitation
ND = Not Detected
%DWB = (mg/kg DWB) / 10000
1000 ug/L = 1 mg/L

Reviewed by: 
Authorized by:
R. T. Krueger
President

SAMPLE 3
BEFORE LOW
2 OUTFALLS

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI000034

Printed: 12/20/05 Code: S Page 1 of 1
NLS Project: 94957
NLS Customer: 26840
Phone: 715 582 0545

Client: Peshigo Dept Public Works
Attn: Steve A Cota PE
City Hall
331 French Street (PO Box 100)
Peshigo, WI 54157 0100

Project: Storm Water Samples

12-8-05 1/2 NLS ID: 393362
Ref. Line 1 COC 82478 12-8-05 1/2 Matrix: SW
Collected: 12/08/05 10:00 Received: 12/13/05

Parameter:
Phosphorus, tot. as P
Solids, tot. susp. (TSS)

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.029	mg/L	1	0.0070*		12/16/05	EPA 365.2	721026460
ND	mg/L	1	1.0*		12/15/05	EPA 160.2	721026460

12-12-05 1/2 NLS ID: 393363
Ref. Line 3 COC 82478 12-12-05 1/2 Matrix: SW
Collected: 12/12/05 10:00 Received: 12/13/05

Parameter:
Phosphorus, tot. as P
Solids, tot. susp. (TSS)

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.019	mg/L	1	0.0070*		12/16/05	EPA 365.2	721026460
3.0	mg/L	1	1.0*		12/15/05	EPA 160.2	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection
DWB = Dry Weight Basis
MCL = Maximum Contaminant Levels for Drinking Water Samples
ND = Not Detected
%DWB = (mg/kg DWB) / 10000
1000 ug/L = 1 mg/L

Reviewed by: 
Authorized by:
R. T. Krueger
President

SAMPLES 445

AFTER POND

1 OUTFALL

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

Client: Peshtigo Dept Public Works
Attn: Steve A Cota PE
City Hall
331 French Street (PO Box 100)
Peshtigo, WI 54157 0100

Project: Surface Water

12-20-05-1/2 NLS ID: 394198
Ref. Line 1 COC 82477 12-20-05-1/2 Matrix: SW
Collected: 12/20/05 10:00 Received: 12/21/05
Parameter:
Phosphorus, tot. as P
Solids, tot susp. (TSS)

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection
DWB = Dry Weight Basis
MCL = Maximum Contaminant Levels for Drinking Water Samples

LOQ = Limit of Quantitation
NA = Not Applicable
%DWB = (mg/kg DWB) / 10000
1000 ug/L = 1 mg/L

Reviewed by: *Norman Krueger*

Authorized by:
R. T. Krueger
President

WDR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. W100034
Printed: 12/29/05 Code: S Page 1 of 1
NLS Project: 95136
NLS Customer: 26840
Phone: 715 582 0545

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.014	mg/L	1	0.0070*		12/27/05	EPA 365.2	721026460
ND	mg/L	1	1.0*		12/23/05	EPA 160.2	721026460

SAMPLE 6
ARTER POND
1 OUTFALL