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:				
DeBroux Park Water Quality Project			USC-LF01-051	06-11C			
2.3. Governmental Unit Name:			2.4. Primary Watershed Name: 2.5. Watershed Code:				
Bellevue, Village			East River LF01				
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.							
2.6 Site Location(s) →	A.	B.		C.	D.	E.	
Name of Cost-Share Recipient or Governmental Unit	Bellevue, Village						
Cost-Share Agreement Number (Agricultural only)							
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	040302040302						
Nearest Surface Receiving Water Affected							
Name:	Spring Creek						
Waterbody Identification Code(s) (WBIC):	5018176						
Nearest Impaired Water Affected							
Name:	East River						
Waterbody Identification Code(s) (WBIC):	118000						
Pollutants Reduced	TSS						
Impairments/Impacts	TSS						

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

Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	23				
Range	21				
Section	15				
Quarter	NE				
Quarter-Quarter	sw				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44-27-47N				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	87-56-7W				

ble A. Agricultural Projects Ch. NR	151 Performance Standards ar	nd Prohibitions and Other Wat	er Resources Management Priorities
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	
1 Tombition: Manufe Storage Overnow	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
	Pollutant load reduction	lbs.	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Number of facilities	facilities	
	Number of animal units	animal units	
Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
Frombition. Offinitiled Livestock Access	Number of farms	farms	

Table A. Agricultural Projects. (continued)

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

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Units of Measure

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planning product:		acres	acres		acres
C.3. Products developed (check all below that ap	only)		dentify Documents by Name (if applic	rable)	
Storm Water Plan	(Pi))	=======================================	tentily became to by Hame (if applic	oable)	
Construction or Eros	ion Ordinances				
Post-construction Sto	orm Water				
Other Types of Storm Ordinances	n Water Quality				
Financing Methods: in evaluated	dentified and				
Financing Methods: dimplemented	leveloped or				
☐ I & E Plan					
☐ I & E Implementation	Activities				
Other:					
C.4. Identify the Storm Wa addressed (check all the	ter goals hat apply)				
Reduce TSS					
Maintain infiltration		Comments:			
Control Peak Flow					
Protective Areas					
Control of Fueling & Areas	Maintenance				
Remove Illicit Discha	arges				
Other:					
4. Satisfaction of No provide information for each	otice Require	ements. If cost sharing for this pr	oject was offered under a formal not	ice pursuant to c	hs. NR 151 or 243,
Notice Information		and bolom.		Notice Satisfa	action Information
Chs. NR 151 or 243 Notice Type	Issue Date	From (Name)	To (Name)	Satisfied? Yes No	Date Letter Sent
				91000	

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5. Additional Information. (Space will expand to fit your text.)				
See attached SLAMM Summary and Design Parameters for the % Removal TSS				
C. Ourona at Draiget Challenger (O. 11 11.5)	1.13			
6. Summary of Project Challenges. (Space will expand to fit your The vegetation and plantings are a special installation and the typical		ervices are not at the level needed		
The vegetation and plantings are a special installation and the typical landscapers that provide these services are not at the level needed to provide an excellent project without the services of an ecological professional. These BMP's also require a 3 year maintenance program in order fully establish the vegetation required. The funding program could look at taking that into account when providing funding for the construction with a higher % reimbursement during construction and allow the municipality to complete the remaining 2 years outside the grant period.				
7. Grantee Certification.				
Checking here Correct.				
Name of Authorized Representative (type or print) ↓	Title of Authorized Representative	(type or print) ↓		
Aaron Oppenheimer	Administrator			
Signature of Authorized Representative		Date /		
(laver Comman)		10/20/12		
Cross Children				
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 spo				
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:				
O.O. Turn and them of Decimal NDC Conditions				
8.C. Type or print Name of Regional NPS Coordinator →8.D. Signature of Regional NPS Coordinator		8.E. Date		

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Client's Name:

Village of Bellevue

Site Location:

Bellevue

Project No.

10B020

Photo No.

Date: 6-22-10

Direction Photo Taken:

Looking SW.

Photo Taken By: Foth

Description:

DeBroux Park

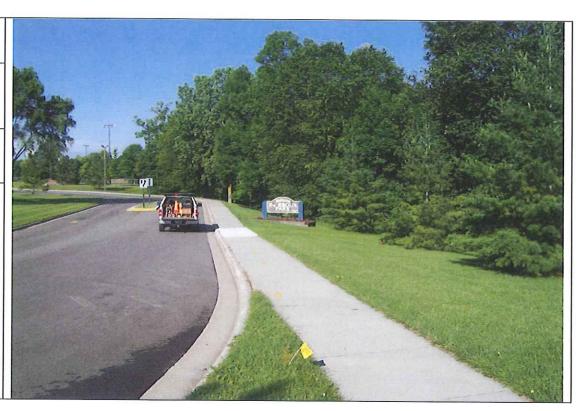


Photo No.

Date: 6-22-10

Direction Photo Taken:
South

Photo Taken By: Foth

Description:

DeBroux Park – swale location





Client's Name: Village of Bellevue

Site Location: Bellevue Project No. 10B020

Photo No.

Date: 6-22-10

Direction Photo Taken: North

Photo Taken By: Foth

Description:

DeBroux Park – swale location



Photo No.

Date: 6-22-10

Direction Photo Taken:

west

Photo Taken By: Foth

Description:

DeBroux Park – Biofiltration location





Client's Name: Village of Bellevue Site Location: Bellevue Project No. 10B020

Photo No.

Date: 6-22-10

Direction Photo Taken:

West

Photo Taken By: Foth

Description:

DeBroux Park – Biofiltration Area





Project Name: DeBroux Park Stormwater Pond

Project No. USC-LF01-05106-11C

Client's Name: Village of Bellevue

Photo No.

Date: 10/25/12

Direction Photo Taken Looking Northeast

Photo Taken By:

Thad M

Description:

Grass Swale at DeBroux Park





Project Name: DeBroux Park Stormwater Pond

Project No. USC-LF01-05106-11C

Client's Name: Village of Bellevue

Photo No.

Date: 10/25/12

Direction Photo Taken Looking Northeast

Photo Taken By:

Thad M

Description:

Grass Swale at DeBroux Park





Client's Name: Village of Bellevue

Photographic Log

Project Name: DeBroux Park Stormwater Pond

Project No. USC-LF01-05106-11C

Date: 10/25/12	
Photo No.	

Direction Photo Taken
Looking North

Photo Taken By:

Thad M

Description:

Biofiltration at DeBroux Park





Client: Village of Bellevue	Project #:	10B020	
Project: Debroux - Biofiltration Design	Page:	1 of 1	
Prepared by: MJA	Date:	07/23/2001	
Checked by:	Date:		

Debroux

Rainfall Data for 24 hour design storm:

1 year = 2.2 in 2 year = 2.3 in 10 year = 3.4 in 100 year = 5.1 in

Total Contributing Area = 38.4 Acres Residential = 18.5 Acres Institutional = 19.9 Acres CN = 82

Design Assumptions:

- 1. Rainfall data used is from Village of Bellevue Stormwater Ordinance.
- 2. Pre development curve number = 78. Based on Wet Pond Standards -1001.
- 3. Minimum time of concentration = 6 minutes
- 4. Biofiltration Criteria from DNR Bioretention for Infiltration 1004.
- 5. Trench bottom width = 6'
- 6. Side slopes = 3:1
- 7. Depth = 3
- 8. Filter Sand 2' deep. Gradation requirements in V.B.6.d.(2)
- 9. Gravel Storage Layer 1' deep. Gradation requirements in V.B.7.c
- 10. Underdrain (1) 6" Perforated PVC pipe to run length of trench.
- 11. Emergency Overflow 10' wide at. 0.5' below top of swale.

Appendix A

Predevelopment Runoff for 1-yr, 2-yr, 10-yr and 100-yr, 24 hour storm events. Computed with Hydraflow software.

File path: X:\GB\IE\2010\10B020-00\12000 Design Data and Calcs\Pond Volumes.gpw

Appendix B

Post development Runoff for 1-yr, 2-yr, 10-yr and 100-yr, 24 hour storm events. Computed with Hydraflow software.

File path: X:\GB\IE\2010\10B020-00\12000 Design Data and Calcs\Pond Volumes.gpw

Appendix C

SLAMM Output – 63.9% TSS Removal

De Broux

Bellevue E2.22-bioretention-inlet bypass-REV - Output Summary.txt

SLAMM for Windows Version 9.3.4

(c) Copyright Robert Pitt and John Voorhees 2003

All Rights Reserved

Data file name: X:\GB\IE\2010\10B020-00\12000 Design Data and Calcs\SLAMM\Bellevue

E2.22-bioretention-inlet bypass-REV.dat

Data file description: Bellevue MS4 Stormwater Modeling - Basin E2.22

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

Particulate Solids Concentration file name: C:\Program Files\WinSLAMM\WI AVG01.psc

Runoff Coefficient file name: C:\Program Files\WinSLAMM\WI_SL06 Dec06.rsv Particulate Residue Delivery file name: C:\Program Files\WinSLAMM\WI_DLV01.prr

Residential Street Delivery file name: C:\Program Files\WinSLAMM\WI Res and Other Urban

Dec06.std

Institutional Street Delivery file name: C:\Program Files\WinSLAMM\WI_Com Inst Indust Dec06.std Commercial Street Delivery file name: C:\Program Files\WinSLAMM\WI_Com Inst Indust Dec06.std Industrial Street Delivery file name: C:\Program Files\WinSLAMM\WI_Com Inst Indust Dec06.std Other Urban Street Delivery file name: C:\Program Files\WinSLAMM\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\Program Files\WinSLAMM\Freeway Dec06.std Pollutant Relative Concentration file name: C:\Program Files\WinSLAMM\WI_GEO01.ppd Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False

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

Date of run: 11-10-2010 Time of run: 13:51:40

Total Area Modeled (acres): 38.4

Years in Model Run: 5.00

Runoff Percent Particulate Particulate Percent Volume Runoff Solids Solids Particulate (cu ft) Volume Conc. Yield Solids Reduction (mg/L) (lbs) Reduction

Source Area Total without Controls:

2.136E+06 0% 181.7 24227 0%

Total Before Drainage System: Total After Drainage System: 2.136E+06 0.00% 178.2 23740 2.01% 1.931E+06 9.60% 153.3 18489 23.68%

Total After Outfall Controls:

1.507E+06 29.45% 92.87 8738 63.93%

Annualized Total After Outfall Controls:

301580

1748