RECEIVED WIDeptofNaturalResources

State of Wisconsin Department of Natural Resources-WT/3 101 S. Webster St. Madison, WI 53707

Animal Waste, phosphorus

Final Report SEP 16 2009

Targeted Runoff Management Grant Program and Urban Nonpoint Source and Storm Water Management Grant Program

dnr.wi.gov

Rhinelanaerservice Cefre 3400-189 (R 6/08)

Page 1

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: Your grant agreement requires you 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. The DNR prefers that Final Reports be submitted in electronic format. If, however, printed copies of Final Reports are submitted, please submit three (3) complete originals to your regional Nonpoint Coordinator. 1. Grant Type -- Please check one ☐ Targeted Runoff Management Grant – Agricultural Targeted Runoff Management Grant – Urban Urban Nonpoint Source & Storm Water Management Grant -Urban Nonpoint Source & Storm Water Management Grant --Construction Planning 2. Grantee & Project Information Project Name **Grant Number** Roth Farm Animal Waste Storage System UW28-35000-08-A Governmental Unit Name Primary Watershed Name and Watershed Code **Lincoln County** Devil Creek Watershed UW 28 Nearest Water Body Name Nearest Water Body Identification Code (WBIC) (if applicable) Devil Creek DNR Water Management Unit (River System) Name s. 303 (d) Listed Waterbody? Yes No. **Upper Wisconsin**

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

What pollutant(s) were addressed by the project (e.g., nitrogen, phosphorus, sediment, thermal control, etc.)?

Location:		Α	В	С	D	Е
	Division Name nship, Village, etc.)	Town of Scott				
PLSS	Town	T31N				
	Range	R6E				
	Section	20				
	Quarter	NE1/4				
	Quarter-Quarter	NW1/4				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer, SWDV)		45-09-42.62672			RECEIV	ED
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)		89-46-03.27234			SEP 2 1 2	009
Property Owner(s)	Name	Heinz & Erich Roth				
	Mailing address	2701 W. Main Street, Merrill, WI 54452	-	18	reau of Waters	HED MIGNIT

Site address (Not mailing address) W6751 Joe Snow Road, Merrill, WI 54452	Strandi.	4
--	----------	---

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.

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	1	Number
	Number of animal units	490	
Manure Storage Facilities: Closure	Number of facilities		
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	1	Number
	Number of animal units	490	
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	1	Number
	Number of animal units	490	
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		

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		
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)			11
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project	Municipalities planned for		
decreased storm water impacts on state waters (i.e., storm water plan, I & E plan, etc.)	Acres planned for		
Document/track progress made in implementing the	Municipalities planned for		
planning product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Acres planned for		

Final Report Targete Form 3400-189 (R 6/08)	d Runoff Manage	ment and Urban Nonpoint Source	e & Storm Water Manage	ement Grant I	Programs		Page 3
Other (specify)							
	npliant animal wa nstallation of an	iste storage facility was built u animal waste storage facility th on.					
4. Satisfaction of Notice							
for each notice in the tab		under a formal notice to achieve	compliance with performa	ance standar	ds or prohi	bitions,	provide information
		Notice Information				SAVE OF THE	action Information
Notice Type	Issue Date	From (Name)	To (Nan	ne)	Satist Yes	No	Date Letter Sent
Non Compliance	1-15-2007	Lincoln County	Heinz and Er				9-1-09
	7 13 433						
					+		
					+		
5. Summary of Project C	h - II						
	Conservation Dep	lonpoint Coordinator - Rhinela partment, 801 N. Sales Street, S to Tom.					
7. Final Product(s) All	Projects						
A. Construction	n Projects	*****					
A.1. Checking he Coordinator		a printed copy of project plans an	d specifications was sen	t to your DNF	Regional	Nonpo	int Source
B. Planning Proje		printed copy of the planning pro-	duct (e.g. plans ordinan	ces analyses	s) was sen	t to you	r DNR Regional
Nonpoint Source	Coordinator.		e s 22	N 547 (2000-20	as veri	2.07.40	
atoo ka parano atro at	NO 865 /8 /8/5 /8	ne Regional Nonpoint Source Co our governmental unit has adopte	AND	DW(1 (0)00 (0)	ning Produ	ct(s).	
Name of Planning Docum		our governmentar unit has adopte	Date(s) effective		e Submitte	d to NP	S Coordinator
8. Grantee Certification:							
Checking here ce	rtifies that, to the b	pest of your knowledge, the inform	mation contained in this r	eport is corre	ct and true	e.	
		Representative certifying here.	L				
		Conservations	2		D. I		
Signature of Authorized	Representative	lender			Date & -	7-	09

9. FOR DEPARTMENTAL USE ONLY				
REGIONAL NONPOINT COORDINATOR Please complete the following:				
Checking here indicates that you received either planning or construction plans and specifications from the project sponsor, as appropriate. Attach a copy of the approval.				
Checking here indicates that you approved the final construction. Attach a copy of the final construction approval.				
Checking here indicates that you have approved the final Planning Product(s).				
Check here if two (2) signed, original copies of the Final Report and attachments have been sent to Runoff Management Section Grants Coordinator. Note: Regional Nonpoint Source Coordinator may retain one (1) copy of the signed, original Final Report.				
Type or print Name of Regional Nonpoint Coordinator				
THOMAS BLAKE				
Signature of Regional Nonpoint Coordinator	Date			
Thomas Blok	9-16-09			



Original torn HDPE lined manure storage facility



Liquid manure agitated and removed and spread per nutrient management plan



Manure solids removed and spread per nutrient management plan



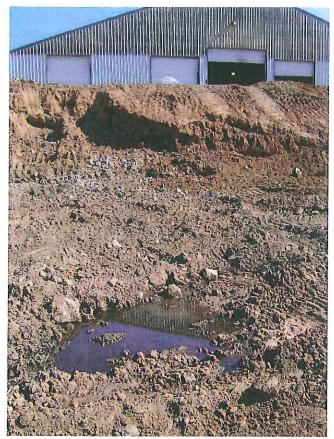
Contaminated soil removed and spread per nutrient management plan



Bedrock being removed with hammer drill



Bedrock was blasted and removed per NRCS state engineer



Water seepage after bedrock was hammer drilled and removed



Water seepage after bedrock was blasted and removed



Top soil was removed for new manure storage facility foot print



Water seepage areas were filled with 3/4" stone



Subgrade material delivered, spread with bulldozer, and compacted with sheep's foot roller



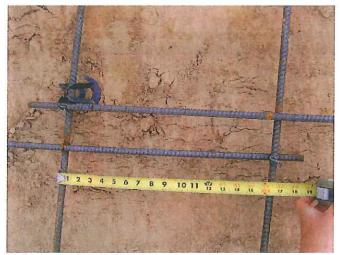
Final subgrade elevations



Completed subgrade and berms



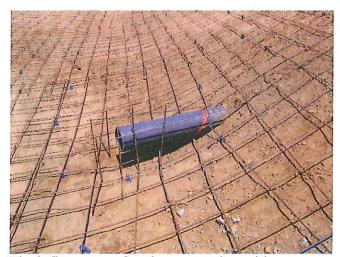
#4 grade 60 rebar spaced at 18" on center



Rebar overlap 16"



Plastic chairs set at every third rebar



Flush flume transfer pipe protrusion with hydrophilic sealant



Waterstop butt weld



Keyway method used in forming waterstops to provide liquid joints in concrete



Installing concrete in waterstop form



Waterstop joints bull floated and vibrated



Side slopes poured with lava flow method and consolidated with roller buggy



Subgrade was damped before concrete was installed



Concrete supplied by Morgan Sand & Gravel



Floor concrete was installed with a pump truck, consolidated with a roller buggy and bull float. Curing compound was applied right away



Separation wall formed with level control structure



Level control structure installed in separation wall



Concrete work completed



Top soil reapplied to berms and disturbed areas



Fencing installed around manure storage facility



First stage of manure storage facility with flush flume transfer pipe from barn



Second stage of manure storage facility with flush flume transfer collection system to transfer liquids to barn



Outside berms and disturbed areas were seeded and mulch was applied to help the grow of vegetation and control erosion