

AUG 04 2009

**Final Report**

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

Rhinelanders SC  
Northern Region

Form 3400-189 (R 6/08)

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

dnr.wi.gov

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 -- Construction

Urban Nonpoint Source & Storm Water Management Grant -- Planning

2. Grantee & Project Information

Project Name <b>Breitenmoser Animal Waste Storage System</b>	Grant Number <b>TRC-UW25-35000-08-B</b>
Governmental Unit Name <b>Lincoln County</b>	Primary Watershed Name and Watershed Code <b>Devil Creek CW 28</b>
Nearest Water Body Name <b>DEVIL CREEK</b>	Nearest Water Body Identification Code (WBIC) (if applicable) <b>1493800</b>
DNR Water Management Unit (River System) Name <b>UPPER WISCONSIN</b>	s. 303 (d) Listed Waterbody? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No.

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

animal waste, 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, Township, Village, etc.)		Town of Scott				
PLSS	Town	T31N				
	Range	R6E				
	Section	19				
	Quarter	NE				
	Quarter-Quarter	NE				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer, SWDV)		45-09-41.28625				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)		89-46-42.34513				
Property Owner(s)	Name	Hans Jr. and Katherine Breitenmoser				
	Mailing address	W 6982 Joe Snow Road, Merrill, WI 54452				

RECEIVED

AUG 6 2009

BUREAU OF WATERSHED MGMT

Site address (Not mailing address)	W6945 Joe Snow Road, Merrill, WI 54452			
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**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)			
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project decreased storm water impacts on state waters (i.e., storm water plan, I & E plan, etc.)	Municipalities planned for		
	Acres planned for		
Document/track progress made in implementing the planning product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Municipalities planned for		
	Acres planned for		



Other (specify)			
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**B. Project Results Narrative**

The previous non compliant animal waste storage structure was built on bedrock and undercapacity. This project resulted in the installation of an animal waste storage facility that meets current standards and specifications which will ensure groundwater and surface water protection.

**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	
Non compliance	2-5-2007	Lincoln County	Hans Breitenmoser, Jr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-15-2009
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

**5. Summary of Project Challenges**

The challenges of this project were that the new animal waste storage structure was located in the same area as the old, noncompliant animal waste storage structure and we were unsure of the depth to bedrock at the bottom of the old structure. Upon clean up of the old storage structure, bedrock was located closer to the surface than anticipated so the elevations of the new storage structure were modified to meet the standards as well as ensure adequate compacity.

**6. Additional Information about the Project (optional)**

Per discussion with Tom Blake, DNR Nonpoint Coordinator - Rhinelander, copies of the project plans are available for DNR review at the Land Information and Conservation Department, 801 N. Sales Street, Suite 105, Merrill, WI 54452. Photos of the project (before, during construction and after) have been provided to Tom.

**7. Final Product(s) -- All Projects**

**A. Construction Projects**

A.1. Checking here indicates that a printed copy of project plans and specifications was sent to your DNR Regional Nonpoint Source Coordinator.

A.2. Checking here indicates that photo-documentation of the project's construction is attached.

**B. Planning Projects**

B.1. Checking here indicates that a printed copy of the planning product (e.g., plans, ordinances, analyses) was sent to your DNR Regional Nonpoint Source Coordinator.

B.2. Checking here indicates that the Regional Nonpoint Source Coordinator has approved the final Planning Product(s).

B.3. Checking here indicates that your governmental unit has adopted the final Planning Product(s).

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

Checking here certifies 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.

**Diane Hanson**

Signature of Authorized Representative 	Date 8-3-09
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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. *See Section #6*
- 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

*Tom Blake*

Signature of Regional Nonpoint Coordinator

*Tom Blake*

Date

*8-5-09*



HANS BREITENMOSER JR.  
2009 MANURE STORAGE PROJECT



REMOVING CONTAMINATED  
SOIL

RECEIVED  
WI DNR

AUG 04 2009

Rhineland SC  
Northern Region



STRIPPING TOP SOIL IN  
PROPOSED PIT AREA  
TO WEST OF EXISTING  
PIT.

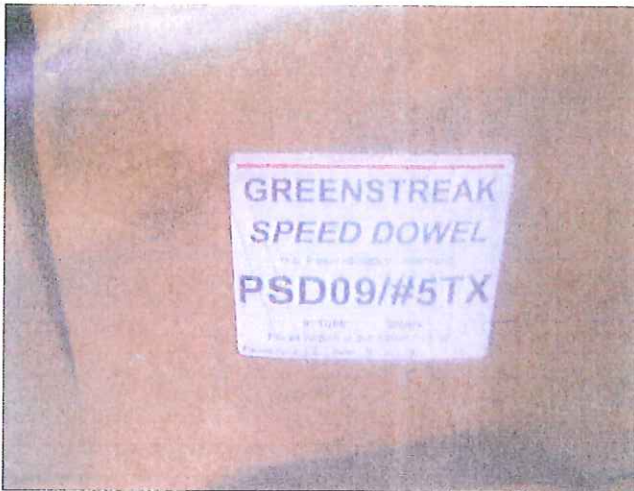


REMOVING CONTAMINATED  
SOIL FROM EXISTING PIT,  
BEING TRANSPORTED TO  
FIELDS TO BE SPREAD PER  
590 PLAN.

MATERIALS USED ON SITE



# 4 GRADE 60 REBAR



SPEED DOWEL



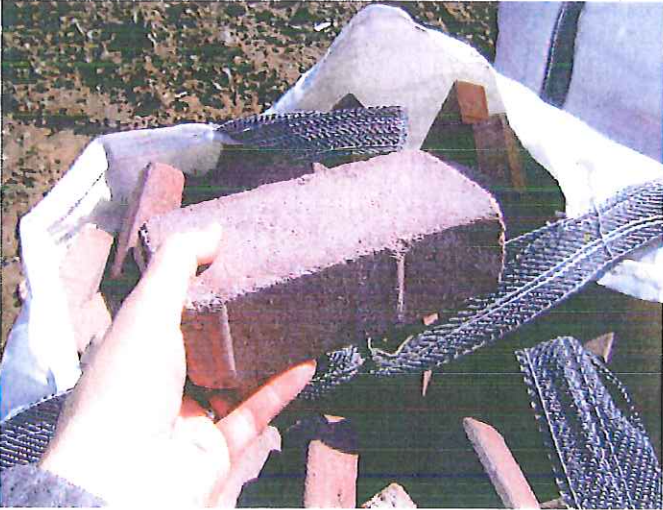
SPEED DOWEL



MATERIALS USED ON SITE



SPEED DOWEL BASE



CONCRETE BLOCK CHAIRS



FACTORY 45° WATERSTOP  
INTERSECTION

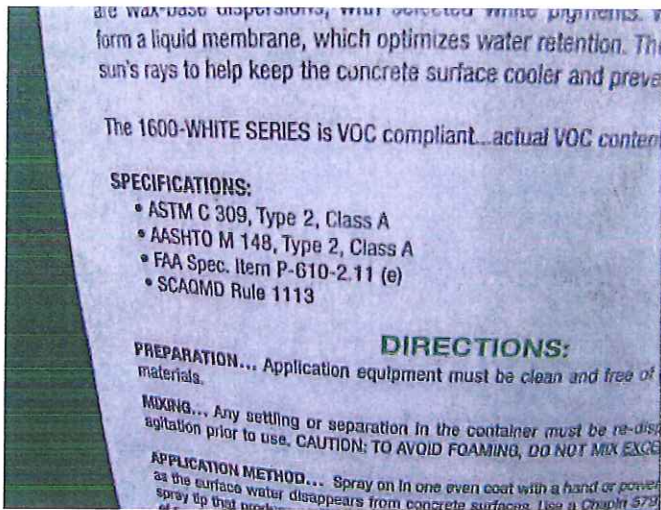
MATERIALS USED ON SITE



LEAKMASTER  
HYDROPHYLIC SEALANT



CONCRETE CURING COMPOUND



CONCRETE CURING COMPOUND



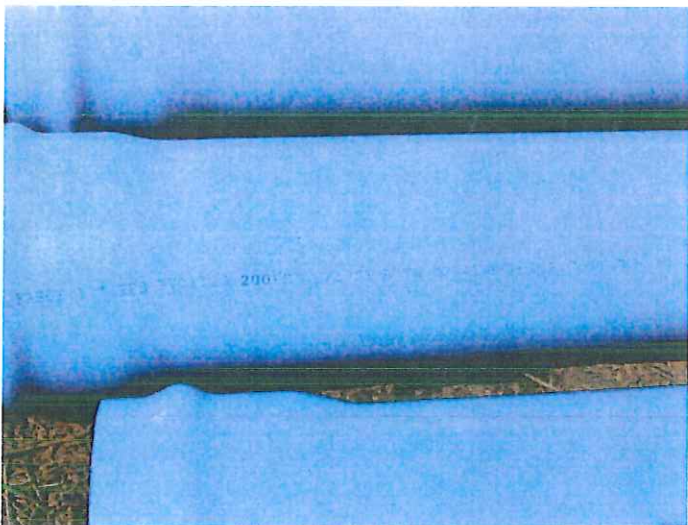
MATERIALS USED ON SITE



UGO PIPE

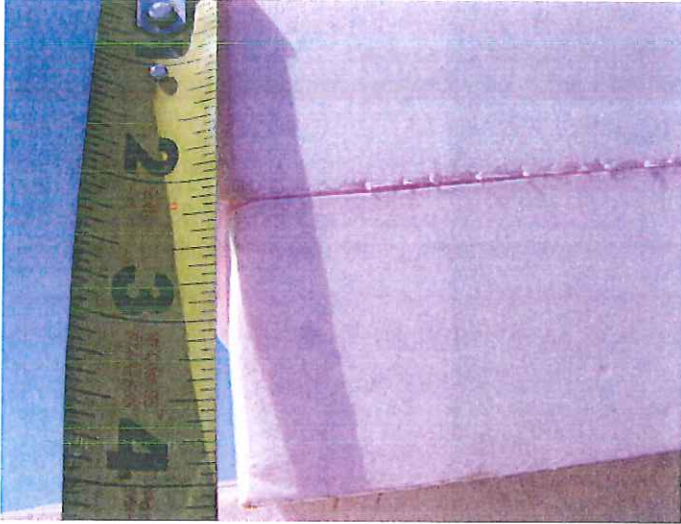


UGO PIPE



MANURE TRANSFER  
PIPE DZZ41

MATERIALS USED ON SITE



4' X 8' X 2" FOAM  
INSULATION TO PROTECT  
MANURE TRANSFER PIPE



MANUAL GATE VALVE



CORE TRENCH



MATERIALS USED ON-SITE + CONSTRUCTION



SHEEPS FOOT ROLLER FOR  
COMPACTING



NORTH BERM COMPACTION



COMPACTING MANURE  
STORAGE FLOOR

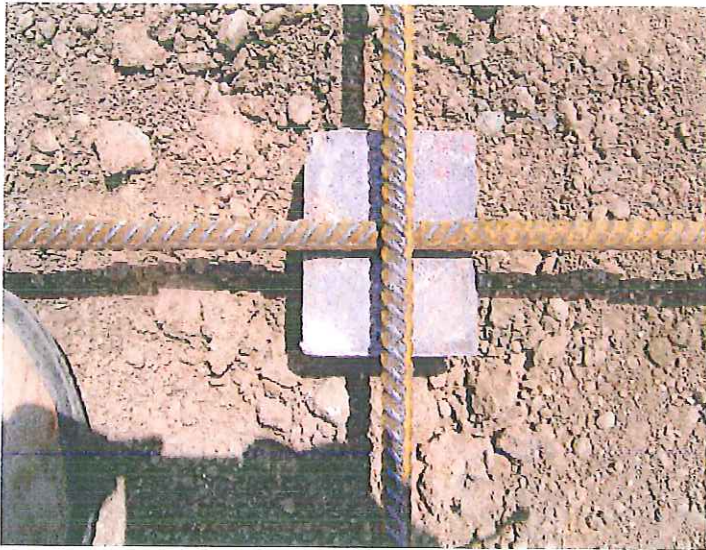


## CONSTRUCTION PHOTOS



REBAR SPACING  
15" O.C.

SEE OTHER PHOTO  
FOR 16" SPLICE



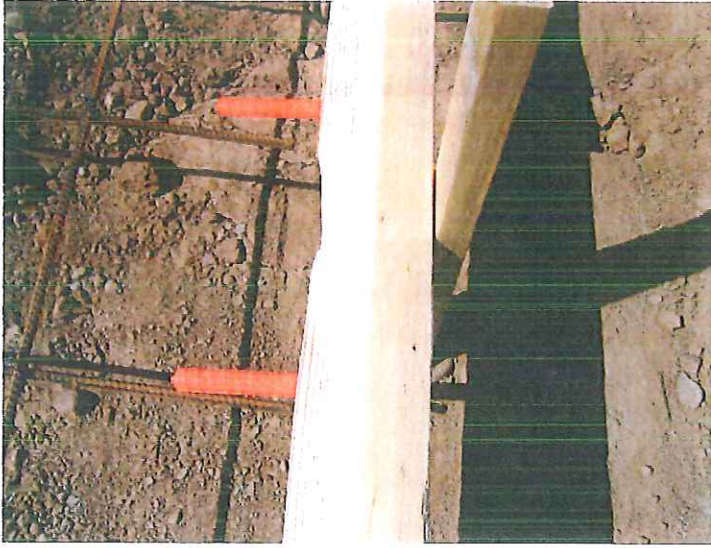
CHAIR INSTALLATION



REBAR SPACING WITH  
CHAIRS



CONSTRUCTION PHOTOS



SPEED DOWELS AND  
WATER STOP INSTALLATION

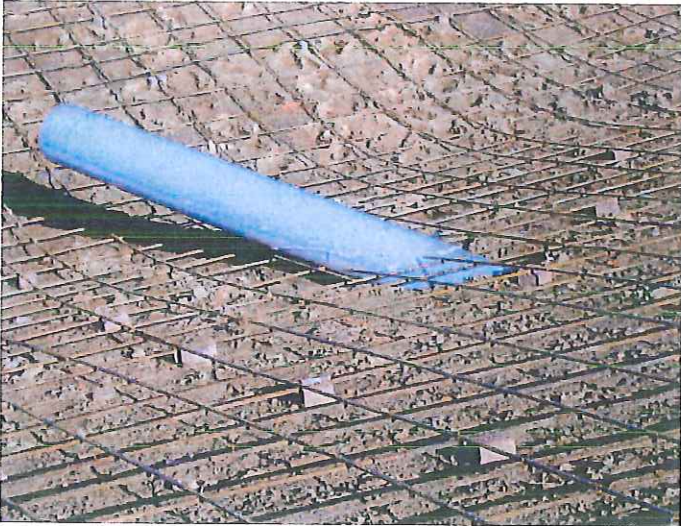


TRANSFER PIPE



THRUST BLOCK FOR  
GATE VALVE

CONSTRUCTION PHOTOS



TRANSFER PIPE WITH  
HYDROPHOBIC SEALANT



DAMP SUBGRADE



CONCRETE PUMPED IN  
PIT



CONSTRUCTION PHOTOS



WATERSTOP AND CONCRETE  
VIBRATING OF WATERSTOP



SLUMP TEST PERFORMED  
BY CONCRETE SUPPLIER



ROLLER BUGGY USED TO  
CONSOLIDATE CONCRETE

## CONSTRUCTION PHOTOS



CURING COMPOUND  
APPLIED TO CONCRETE



MAXIMUM OPERATING  
LEVEL INDICATOR CURB



TOP SOIL REAPPLIED,  
SEEDED, AND MULCHED



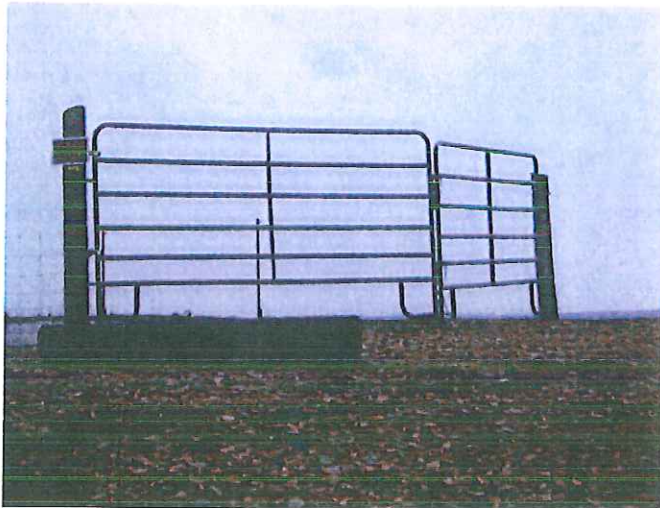
CONSTRUCTION PHOTOS



FENCING INSTALLED



FINISHED MANURE  
STORAGE FACILITY



GATES INSTALLED AT  
TOP OF RAMP.  
HAZARD SIGNS INSTALLED.