

Final Report

Agricultural Targeted Runoff Management &
 Notice of Discharge Grant Programs

Form 3400-189A (R 05/16)

Page 1 of 2

NOTICE: This document is required under s. 281.65, Wis. Stats., and chs. NR 153 and 154, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Targeted Runoff Management and Notice of Discharge Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type		
Select Grant Type Notice of Discharge		
Project Name & Location		
Project Name M & S Trail View Acres LLC - Roofed Barnyard		
Grant Number NOD41000Y16		Governmental Unit Name Monroe County LCD
County Monroe	Watershed Name Seymour Creek, Upper Baraboo	12-Digit HUC 070700040102
Project Contact Name Bob Micheel		Phone Number (608) 269-8975
		E-mail Address bmicheel@co.monroe.wi.us
<input type="checkbox"/> For a project with multiple site locations, an aerial photo map is attached with each site location labeled.		

Site Location - 1							
Name of Cost-Share Recipient Merv & Sherie Vaassen					Animal Units 289	Nearest Receiving Waterbody Tributary to the Upper Baraboo River	
Township 15	Range 01	E / W E	Section 24	Quarter SW	Quarter/Quarter NE	Latitude 43.7679	Longitude -90.3172
Compliance Requirements - 1							
Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151		Notice letter attached <input checked="" type="checkbox"/>	Compliance achieved? If no, explain in site information <input checked="" type="radio"/> Yes <input type="radio"/> No			Compliance determination letter attached <input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Attached is a copy of the written statement the County provided to the landowner and cost-share recipient of the landowner's obligation to maintain compliance with performance standards & prohibitions on cropland and livestock facilities addressed by the cost-share agreement. Compliance at these sites must be maintained in perpetuity regardless of future cost sharing. The County has also placed a copy of this written statement in the County files.							

Summary of Results - 1							
Best Management Practice Installed	Quantity	Unit of Measure	Performance Standard/Prohibition Addressed	Total Installation Cost	Load Reduction		
					Phosphorus lbs/yr	Nitrogen lbs/yr	Sediment Tons/yr
Barnyard Runoff Control Systems	1	No.	Code(s) 12	\$280,000.00	897		
Heavy Use Area Protection	1	Acres	Code(s) 12	\$5,000.00			2

Site Location Attachment - 1	
Check the box if the required information for the site is attached:	
<input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s)	<input checked="" type="checkbox"/> Load reduction modeling documents
<input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled	<input type="checkbox"/> Water quality monitoring results/summary, if applicable

Site Information - 1
<i>Narrative space will expand to fit</i>
A roofed concrete barnyard was constructed to remove cattle from concentrated flow channels/feedlots that were direct conduits to the Upper Baraboo River (Attached map, sites 1-3). This will keep cattle off of sites 1-3 during the non-growing season. Pasture renovation is completed and management of these padox will facilitate rotational grazing.

DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project Information and/or Comments

Narrative space will expand to fit

Landowner currently is working with a consultant to develop a nutrient management plan for his new facility. Merv became a farmland preservation participant in the last year with the SE Headwaters of Monroe County- AEA.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form prior to submittal to DNR.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments are correct and true.

Name of Authorized Government Official	Title of Authorized Government Official	Date
Bob Micheel	Monroe County LCD - Director	12/14/2017

For DNR Use Only

Received complete reports with all attachments Practices implemented were consistent with the grant agreement

Comments about this project:

Name of Region Nonpoint Source Coordinator	Date
Cynthia A Koperski	12/20/2017

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grant Coordinator. Keep a printed copy for the Region file.

Merv Vaassen – NOD/NOI site (NR151 violation):



Site #2 – Looking west



Site #2 – Looking East toward Hwy 71 and the Baraboo River



Site #2 – Feedlot/manure source



Site #3 – Looking west, feedlot in background to the right included.



Feedlot #3 – Looking west at feedlot in headwater/draw.



Feedlot #1 – Looking north



Feedlot #1 – Cattle waded through manure to reach pasture.



Feedlot #1 – the draw/outlet receiving the manure looking west.

Completed Roofed Barnyard – Trail View Farms

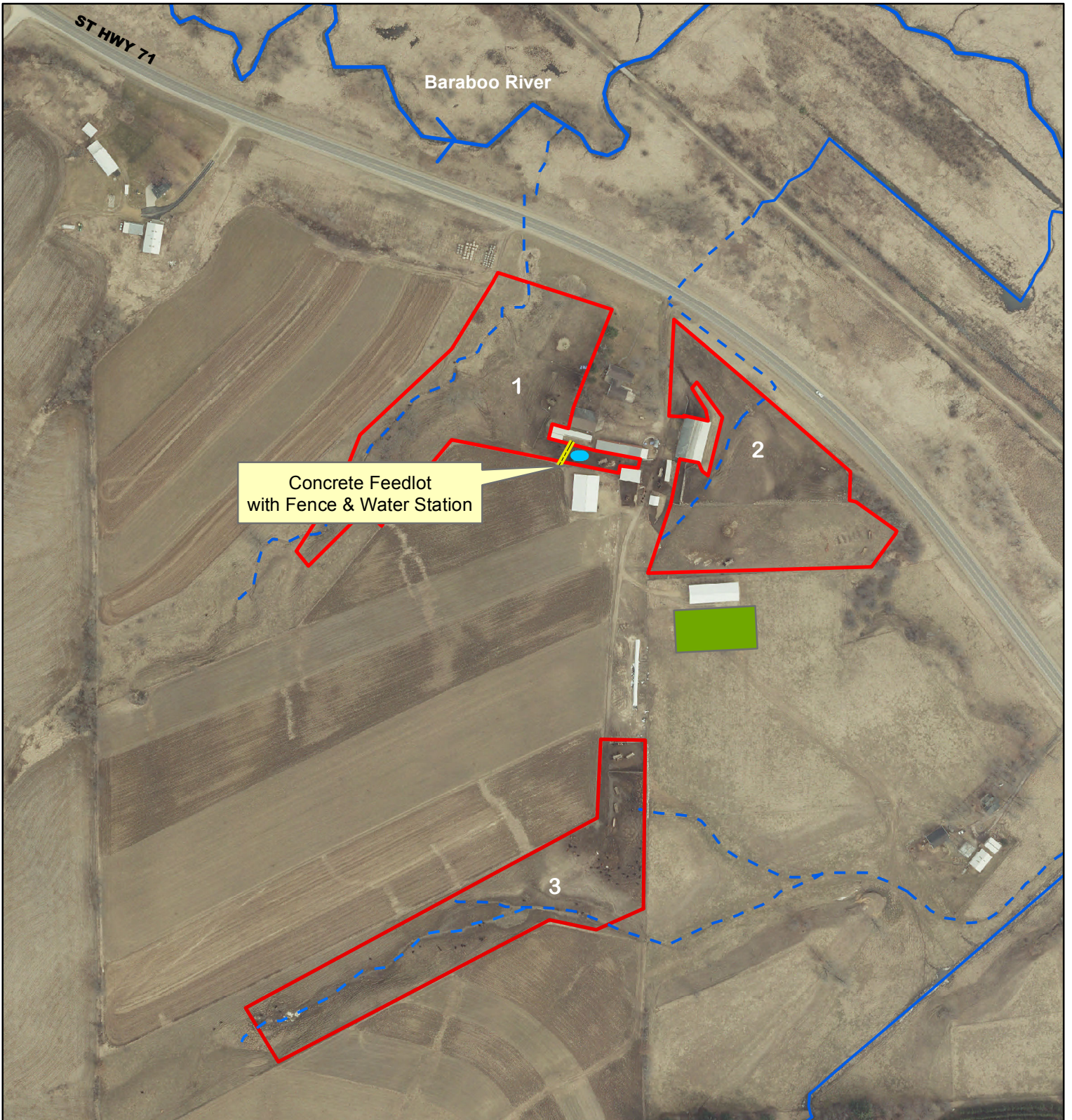
2017









Roofed Barnyard in use – 12/2017

Merv Vaassen (M&S Trailview Acres LLC)
Monroe County, WI



Concrete Feedlot
with Fence & Water Station

-  New Roofed Barnyard
-  Water Source
-  Historic Feedlot Border
-  Perennial Stream
-  Ephemeral Stream
-  Fence



Created by: CLM
Date: 10/11/2017



The Current Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Current Animal Unit Calculation Numbers							
Name of Site:							
Animal Type	I. Mixed Animal Units			II. Non-mixed Animal Units			
	b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of AUs	
Example - Broilers (non-liquid manure):	0.005 x	150,000	= 750	0.008 x	150,000	= 1200	
<i>Fed numbers in this column comply with 40 CFR s. 122.23</i>							
Dairy/Beef Calves (under 400 lbs)	0.20 x		=			=	
Dairy Cattle	Milking & Dry Cows <i>Beef Cows</i>	1.40 x	<i>100</i>	= <i>140</i>	1.43 x		=
	Heifers (800 lbs to 1200 lbs)	1.10 x		=			=
	Heifers (400 lbs to 800 lbs)	0.60 x		=	1.00 x		=
Beef	Steers or Cows (400 lbs to market)	1.00 x	<i>100</i>	= <i>100</i>			=
	Bulls (each) <i>& Bred Heifers</i>	1.40 x	<i>35</i>	= <i>49</i>	1.00 x	<i>289</i>	= <i>289</i>
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			=
	Sows (each)	0.40 x		=			=
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:			Total Mixed Animal Units = (add all rows above)		Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals) <i>289</i>		

Check here if there are no proposed increases in animal numbers at this site within the next five years.

	A	B	C	D	E	F	G
1	Barnyard Evaluation Rating Tool (BERT) (USDA-ARS Young et al. 4-1982)						
2	ver 10-2014	BERT is not to be used as a design tool for conservation practices.					
3	Landowner: Merv Vaassen			Completed by: BM			
4	Date:	16-Jul	Lot ID:			1	
5	<input checked="" type="radio"/> Existing conditions		<input type="radio"/> Modified conditions				
6	<i>Bred Heifers</i>						
7	Paved Lot area:		2,000	sq ft			
8	Earth Lot area:		10,000	sq ft			
9	Total Animal Lot area:		12,000	sq ft			
10	Is there a design settling basin?		no				
11	Percent Time on Lot:		100				
12	Lot Scraped every 7 days or less?		no				
13							
14	Animals on Lot:		35	number			
15	Animals Type:		2	(Dairy = 1; Beef=2)			
16	Avg. Animal Weight:		1,250	lbs			
17	Lot use:		1.0	1= Heavy;2=Med;3= Light)			
18			91.4	Adjusted sq ft / animal			
19							
20	TRIBUTARY AREAS						
21	Tributary area:		10,000	sq ft		sq ft	
22	RCN:		75				
23							
24	Roof area:		2,000	sq ft			
25							
26	Vegetated Area Immediately Downstream of Lot?		no				
27	Does Runoff From Lot Sheet Flow Across Vegetated Area?		no				
28	Cover Type:						
29			c-value:	#N/A			
30	Length of Existing Vegetated Area=		0	ft.			
31	Width of Existing Vegetated Area=		0	ft.			
32	Slope:		0				
33							
34	Distance to Blue Line on USGS Topo Map:		200	ft.			
35	Distance to Lake, Wetland, or Pond:			ft.			
36	Are Manure Solids Leaving the Lot?		yes				
37	Is Facility in Good Operating Condition:		no				
38							
39	Edge of Lot BERT =		244				
40	End of buffer BERT =		N/A				
41	No buffer is included in this evaluation						
42	The BERT <u>rating is a guide</u> in deciding if a barnyard system is a resource concern.						
43	Site specific conditions are critical when determining if a system is a resource concern or not.						

	A	B	C	D	E	F	G	
1	Barnyard Evaluation Rating Tool (BERT) (USDA-ARS Young et al. 4-1982)							
2	ver 10-2014	BERT is not to be used as a design tool for conservation practices.						
3	Landowner: Merv Vaassen			Completed by: BM				
4	Date:	16-Jul		Lot ID:		2		
5	<input checked="" type="radio"/> Existing conditions			<input type="radio"/> Modified conditions			<i>Values</i>	
6								
7	Paved Lot area:		1,000			sq ft		
8	Earth Lot area:		10,000			sq ft		
9	Total Animal Lot area:			11,000	sq ft			
10	Is there a design settling basin?		no					
11	Percent Time on Lot:		100					
12	Lot Scraped every 7 days or less?		no					
13								
14	Animals on Lot:		100			number		
15	Animals Type:		2			(Dairy = 1; Beef=2)		
16	Avg. Animal Weight:		700			lbs		
17	Lot use:		1.0			1= Heavy;2=Med;3= Light)		
18			52.4			Adjusted sq ft / animal		
19								
20	TRIBUTARY AREAS							
21	Tributary area:		10,000	sq ft		sq ft		
22	RCN:		75					
23								
24	Roof area:		2,000	sq ft				
25								
26	Vegetated Area Immediately Downstream of Lot?					no		
27	Does Runoff From Lot Sheet Flow Across Vegetated Area?					no		
28	Cover Type:							
29						c-value:	#N/A	
30	Length of Existing Vegetated Area=					0	ft.	
31	Width of Existing Vegetated Area=					0	ft.	
32						Slope:	0	
33								
34	Distance to Blue Line on USGS Topo Map:					200	ft.	
35	Distance to Lake, Wetland, or Pond:						ft.	
36	Are Manure Solids Leaving the Lot?					yes		
37	Is Facility in Good Operating Condition:					no		
38								
39	Edge of Lot BERT =		229					
40	End of buffer BERT =		N/A					
41	No buffer is included in this evaluation							
42	The BERT <u>rating is a guide</u> in deciding if a barnyard system is a resource concern.							
43	Site specific conditions are critical when determining if a system is a resource concern or not.							

	A	B	C	D	E	F	G
1	Barnyard Evaluation Rating Tool (BERT) (USDA-ARS Young et al. 4-1982)						
2	ver 10-2014	BERT is not to be used as a design tool for conservation practices.					
3	Landowner: Merv Vaassen			Completed by: BM			
4	Date:	16-Jul			Lot ID:	3	
5	<input checked="" type="radio"/> Existing conditions		<input type="radio"/> Modified conditions		<i>Cows</i>		
6							
7	Paved Lot area:			1,000	sq ft		
8	Earth Lot area:			10,000	sq ft		
9	Total Animal Lot area:			11,000	sq ft		
10	Is there a design settling basin?			no			
11	Percent Time on Lot:			100			
12	Lot Scraped every 7 days or less?			no			
13							
14	Animals on Lot:			100	number		
15	Animals Type:			2	(Dairy = 1;Beef=2)		
16	Avg. Animal Weight:			1,400	lbs		
17	Lot use:			1.0	1 = Heavy;2=Med;3= Light)		
18				26.2	Adjusted sq ft / animal		
19							
20	TRIBUTARY AREAS						
21	Tributary area:			43,560	sq ft		sq ft
22	RCN:			75			
23							
24	Roof area:			0 sq ft			
25							
26	Vegetated Area Immediately Downstream of Lot?					no	
27	Does Runoff From Lot Sheet Flow Across Vegetated Area?					no	
28	Cover Type:						
29						c-value:	#N/A
30	Length of Existing Vegetated Area=					0	ft.
31	Width of Existing Vegetated Area=					0	ft.
32	Slope:					0	
33							
34	Distance to Blue Line on USGS Topo Map:					100	ft.
35	Distance to Lake, Wetland, or Pond:					ft.	
36	Are Manure Solids Leaving the Lot?					yes	
37	Is Facility in Good Operating Condition:					no	
38							
39	Edge of Lot BERT =		424				
40	End of buffer BERT =		N/A				
41	No buffer is included in this evaluation						
42	The BERT rating is a guide in deciding if a barnyard system is a resource concern.						
43	Site specific conditions are critical when determining if a system is a resource concern or not.						



MONROE COUNTY LAND CONSERVATION DEPARTMENT

820 INDUSTRIAL DRIVE, SUITE 3 • SPARTA, WI 54656
Phone – 608/269-8973 • fax – 608/269-4394 • e-mail – bmicheel@co.monroe.wi.us

December 19, 2017

M&S Trail View Acres LLC
33675 Hwy 71
Kendall, WI 54638

Re: NR151 Compliance

Dear Merv,

Based on our site visit today, the Monroe County Land Conservation Dept. has determined with the installation of the Barnyard Runoff Control System/Heavy Use Area you are now in compliance with the State of Wisconsin agriculture performance standards and prohibitions. This includes your plan to install a fence and water tank on site one along the existing concrete slab (Photo attached) to eliminate cattle access to the north pasture during the non-growing season in early 2018.

Cost sharing was provided to address NR 151.08(4) which states, *that a livestock operation shall have no direct runoff from a feedlot into waters of the state.* The livestock facility located in T.15N. - R.1E., S24, NE ¼ of the SW ¼ in the town of Glendale is no longer impacting the headwaters of the Baraboo River.

State regulations, NR 151, Wisconsin Administrative Code requires that you maintain this level of compliance regardless of future cost sharing. This will require your continued operation and maintenance of all cropland practices and livestock facilities in accordance with accepted standards of practice.

Thank you for your cooperation and your continued interest in protecting water quality. If you have any questions or concerns feel free to contact me at 608-269-8975.

Sincerely,

A handwritten signature in black ink that reads "Bob Micheel".

Bob Micheel
Monroe County LCD – Director
820 Industrial Drive, Suite 3
Sparta, WI 54656

Cc: Cindy Koperski, DNR Runoff Management