Wisconsin Department of Natural Resources Bureau of Watershed Management (WT/3) 101 S. Webster Street PO Box 7921 Madison, WI 53707-7921 dnr.wi.gov

Final Report

Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs Form 3400-189A (R 8/15) 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		
Bush Barnyard Runoff Project		
Grant Number	Governmenta	I Unit Name
BR03-27000-N14B	Jackson Cou	inty Land Conservation Department
County	Watershed Name	12-Digit HUC
Jackson	Big and Douglas Creek	070400071203
Project Contact Name	Phone Number	E-mail Address
Bush Barnyard Runoff Project	(715) 284-0256	Gaylord.OlsonII@co.jackson.wi.us
For a project with multiple site locations, an	aerial photo map is attached with	each site location labeled.

Site Location - 1												
Name of Co	st-Share R	Recipient					Animal Units		Nearest Receiving Waterbody			
Lucille and Bert Bush							123 W		Voodward Creek			
Township	Range	E/W	Section	tion Quarter		Quarter/Quarter		Latitude		Lor	ngitude	
20	05	W	31	NE			SE		44.169 -9		1.0164	
Compliance Requirements - 1												
Chs. NR 151 or 243 Wis. Adm. Code Notice letter Complia Notice Type attached explain			ance achieved?	nce achieved? If no, in site information Compliance detu			ance determi tter attached	termination ached				
NOI / NOE)]		ullet	Yes 🔿 No				\boxtimes	
obligat cost-sh has als	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 c	t Results	-1										
Best Manag	ement Pra	ctice Installe	d	Quantity	Unit of Measure	Sta	Performance andard/Prohibition Addressed	Tota Installa Cos	tion	Lo Phosphorus Ibs/yr	ad Reductic Nitrogen Ibs/yr	n Sediment Tons/yr
Access Road			π	500	Feet	Co 13	de(s)	\$4,500	0.00	×		
Trail And Walkways 200 Feet			13	de(s)	\$1,000	0.00			41			
Barnyard Runoff Control Systems1No.Code(s) 11,12,13					de(s) ,12,13	\$73,59	2.64	109				
Livestock Fencing 1,0			1,000	Feet	Co 13	de(s)	\$1,000	0.00				
Livestock Watering Facilities 3			3	No.	13	de(s)	\$3,000	0.00				
Roofs				1	No.		de(s) ,11,12	\$25,40	0.00			
Well Decom	nissioning			1	No.	Co	de(s)	\$211.	00			
Nutrient Mar	agement			87	Acres	Co 9	de(s)	\$1,566	5.00			

Wisconsin Department of Natural Resources **Final Report** Bureau of Watershed Management (WT/3) Agricultural Targeted Runoff Management & 101 S. Webster Street Notice of Discharge Grant Programs PO Box 7921 Page 2 of 2 Madison, WI 53707-7921 Form 3400-189A (R 8/15) dnr.wi.gov Site Location Attachment - 1 Check the box if the required information for the site is attached: Photos of pre-and post-implementation of BMP(s) X Load reduction modeling documents Water quality monitoring results/summary, if applicable Aerial photo map of site with BMPs labeled Site Information - 1 Narrative space will expand to fit The structural Best Management Practices were completed by August 2015. The Nutrient Management Plan was submitted in March 2016. The project is now complete as of April 2016. 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 **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 Ron Carney Land Conservation and Agriculture Committee Chair 04/19/2016 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

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.









06/29/2015 09:38





OWNER: Bert Bush UPPER LOT (BEFORE)	D	ESIGNER: CHK BY:		DATE: 8/1/2014 DATE:
UPPER LOT (DEPoke)	Input	Output	1	Madison Appleton
Closest City of similar climate:	4		3	Wausau Eau Claire
Paved lot area: Earth lot area: Animal Lot size:	0 14,400	14,400	sq ft sq ft sq ft	
Is there a DESIGNED settling basin	2		Yes= 1; No)= 2
Animals on lot: 50 Type of animal: 1 Ave. Animal Weight: 800	number		number Ibs	(Dairy = 1; Beef=2)
Lot Use: 1				1= Heavy; 2= Medium; 3= Light)
TRIBUTARY AREAS Tributary area: Runoff Curve Number:	2,400 90	sq ft		sq ft
Roof area:	600	sq ft		43.8 Ibs P per year at D.S. Lot edge:
Maximum permissible P Output that can be released	0	lbs		e based on impacted s- Max is 15
BUFFERS - Size by trial and error				"c" Value Table Permanent Meadow 0.59
Length:		ft (See Not	te Below)	Woods, Heavy Litter 0.59 Woods, Lt Ltr 0.29
First Buffer Slope: "c" :	0 0	>		Well managed grazing 0.44 Fair managed grazing 0.29 Good Pasture 0.22
Length: Second Buffer Slope:	0	ft		Fair Pasture 0.15 Small Grain 0.29
"c" :	0			Legume 0.29 Contoured Row Crop 0.29
P (lbs) after the buffers: NO GOOD - Too much		Ibs P pe	er year	Non-contoured row crop 0.05
BUFFER SIZING Chosen Buffer Width	0	14,400 feet		Min. Acceptable Buffer Area
Chosen Buffer Length	0	#DIV/0! feet	feet feet #DIV/0!	Min. Bfr. Len. Based on BARNY Min. Bfr. Len. Based on Area
Soil LOSS CALCULAFION R" × 43560 FT2 × 90#/+	573 x 1/A	125 = 40	D.8 TONS	/ YEAR
2000#17	0	1.4-		

OWNER: Bert Bush		DESIGNER			1000	8/1/2014
UPPER LOT (MFRER)		CHK BY			DATE:	
	Input	Output	2	Madison Appleton		
Closest City of similar climat	e: ,	4		Wausau Eau Claire		
Paved lot are Earth lot are	,	3 D	sq ft sq ft			
Animal Lot siz	e:	4,153	sq ft			
Is there a DESIGNED settling bas	sin	1	Yes= 1; No	o= 2		
Animals on lot:	50 number		number			
Type of animal:	1			(Dairy = 1;	Beef=2)	
	0 lbs		lbs			
Lot Use:	1			1= Heavy; 2= N	/ledium; 3=	Light)
TRIBUTARY AREAS						
Tributary are	a:	0 sq ft		sq ft		
Runoff Curve Number		0		10 A. A.		
Roof are	a [.] 75	4 sq ft				
	u. 70	- oq it			s P per yea D.S. Lot ed	
Maximum permissible P Outp that can be release		lbs		e based on impa s- Max is 15	acted	
		lbs		es- Max is 15		
that can be release	ed	lbs		es- Max is 15	Value Table	0.59
	ed	lbs		es- Max is 15	Value Table Meadow	0.59
that can be release BUFFERS - Size by trial and err	ed or		resource	es- Max is 15 "c" V Permanent Woods, Hea	Value Table Meadow avy Litter	0.59
that can be release BUFFERS - Size by trial and err Leng	ed or :h: 14	3 ft (See No	resource	es- Max is 15 "c" V Permanent Woods, Hea Wood	Value Table Meadow avy Litter ds, Lt Ltr	0.59 0.29
that can be release BUFFERS - Size by trial and err Leng First Buffer Slop	ed or h: 14 e:	3 ft (See No 4 %	resource	Permanent Woods, Hea Well managed	Value Table Meadow avy Litter ds, Lt Ltr d grazing	0.59 0.29 0.44
that can be release BUFFERS - Size by trial and err Leng	ed or :h: 14 :e:	3 ft (See No 4 %	resource	es- Max is 15 "c" V Permanent Woods, Hea Wood Well managed Fair managed	Value Table Meadow avy Litter ds, Lt Ltr d grazing d grazing	0.59 0.29 0.44 0.29
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that can be release BUFFERS - Size by trial and err Leng First Buffer Slop "c" Leng	ed or h: 14 he: ': 0.2 th: 6	3 ft (See No 4 % 9	resource	es- Max is 15 "c" " Permanent Woods, Hea Wood Well managed Fair managed Good Fair	Value Table Meadow avy Litter ds, Lt Ltr d grazing d grazing l Pasture Pasture	0.59 0.29 0.44 0.29 0.22 0.15
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that can be release BUFFERS - Size by trial and err First Buffer Slop "c Second Buffer Slop "c	ed or th: 14 th: 14 th: 0.2 th: 6 th: 6 th: 0.2	3 ft (See No 4 % 9	resource	es- Max is 15 "c" Permanent Woods, Hea Wood Well managed Fair managed Good Fair Sm	Value Table Meadow avy Litter ds, Lt Ltr d grazing d grazing l Pasture Pasture hall Grain Legume	0.59 0.29 0.44 0.29 0.22 0.15 0.29
that can be release BUFFERS - Size by trial and err First Buffer Slop "c Second Buffer Slop "c P (Ibs) after the buffer	ed or th: 14 te: 0.2 th: 6 te: 0.2 s: 4	3 ft (See No 4 % 9	resource ote Below)	es- Max is 15 "c" Permanent Woods, Hea Wood Well managed Fair managed Good Fair Sm Contoured R Non-contoured	Value Table Meadow avy Litter ds, Lt Ltr d grazing d grazing l Pasture Pasture all Grain Legume cow Crop	0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.29 0.29 0.05
that can be release BUFFERS - Size by trial and err First Buffer Slop "c Second Buffer Slop "c	ed or th: 14 te: 0.2 th: 6 te: 0.2 s: 4	3 ft (See No 4 % 9	resource ote Below)	es- Max is 15 "c" Permanent Woods, Hea Wood Well managed Fair managed Good Fair Sm Contoured R Non-contoured	Value Table Meadow avy Litter ds, Lt Ltr d grazing d grazing l Pasture Pasture all Grain Legume cow Crop	0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29 0.29 0.29 0.05
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OWNER: Bert Bush		Ľ	ESIGNER:				8/1/2014
LOWERLOT BEFO	RE)	Input	CHK BY: Output		Madison	DATE:	
		mpar	Output		2 Appleton		
Closest City of simil	lar climate:	4			8 Wausau		
					Eau Claire		
Pave	ed lot area:	0		sq ft			
Ear	th lot area:	16,000		sq ft			
	al Lot size:		16,000				
Is there a DESIGNED so	ettling basin	2		Yes= 1; No	o= 2		
Animals on lot:	40	number		number			
Type of animal:	1				(Dairy = 1;	Beef=2)
Ave. Animal Weight:	1,400	lbs		lbs			
Lot Use:	1				1= Heavy; 2= Me	edium; 3=	= Light)
TRIBUTARY AREAS	energy theorem	0.000					
	utary area:	3,000	sqft		sq ft		
Runoff Curv	e Number.	90					
	Roof area:	2,200	sq ft				
						P per ye	
						.S. Lot ed	uge.
A Annalization of the second states of the P		0	Bern	Maria alesta		4	
Maximum permissible that can b	e P Output e released	0	lbs		e based on impac s- Max is 15	cted	
		0	lbs		es- Max is 15		
that can b	e released	0	lbs		es- Max is 15	alue Table	0.59
	e released	0	lbs		es- Max is 15	alue Table leadow	
that can b	e released	0	lbs ft (See No	resource	es- Max is 15 "c" Va Permanent M Woods, Heav	alue Table leadow	0.59
that can b	e released			resource	es- Max is 15 "c" Va Permanent M Woods, Heav	alue Table leadow /y Litter s, Lt Ltr	0.59 0.59
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	SIGNER:			2015
	CHK BY:		DATE:	
Input	Output	1	Madison	
		2	Appleton	
4		3	Wausau	
		4	Eau Claire	
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Ŭ	3 854			
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and the second		an e suare las color		
mber		number		
			(Dairy = 1; Beet=2)	
8		lbs		-
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5 lb)S		e based on impacted s- Max is 15 "c" Value Table Permanent Meadow	0.59
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110 ff 2 % 0.29 90 ff 3.7 % 0.59	t (See Not	resource	e based on impacted s- Max is 15 Permanent Meadow Woods, Heavy Litter Woods, Heavy Litter Woods, Lt Ltr Well managed grazing Fair managed grazing Good Pasture Fair Pasture Small Grain Legume	0.59 0.29 0.44 0.29 0.22 0.15 0.29 0.29
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ARM-LWR-480 (06/10)



Wisconsin Department of Agriculture, Trade & Consumer Protection Division of Agricultural Resource Management Bureau of Land and Water Resources PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Nutrient Management Plan Checklist

Sec. 92.05(3)(k), Wis. Stats. ATCP 50.04(3) Wis. Admin. Code Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 590 Standard (Sept. 2005).

County name: Jackson Date Plan Submitted: 3/2016 Growing season year NM plan is written for 2016 (from harvest to harvest) Township (T. 20 N) – (R. 6 W [Initial Plan or [] Updated Plan (choose one)

Name of qualified nutrient management planner		Planner's business name, address, phone:
Mark Schaffner CCA # 359887		Dairyland Labs 608-323-0044
Circle the planner's qualification:	Cropland Acres (owned & rented)	Name of farm operator receiving nutrient management plan:
2. 🖾 ASA-CCA 3. 🗌 ASA-Professional Agronomist	87	Bushway Farms. LLC (Bert Bush)
 A. SSSA-Soil Scientist 5. DATCP approved training course 6. Other credentials approved by DATCP 	Rented farm(s) land	iowner name(s) and acreage:

Check relevant program requirement/regulation plan developed for: Ordinance USDA ADATCP DNR NR 243 - NOD or WPDES

		Yes	No	<u>N/</u>
1.	Are the following field features identified on maps or aerial photos in the plan?			
a.	Field location, soil survey map unit(s), field boundary, acres and field identification number	x		
b.	Areas prohibited from receiving nutrient applications: Surface water, established concentrated flow channels with perennial cover, permanent non-harvested vegetative buffer, non-farmed wetlands, sinkholes, lands where established vegetation is not removed, nonmetallic mines, and fields eroding at a rate exceeding tolerable soil loss (T)	x		
c.	Areas within 50 feet of a potable drinking water well where mechanically-applied manure is prohibited	x		
d.	Areas prohibited from receiving winter nutrient applications: Slopes > 9% (12% if contour-cropped); Surface Water Quality Management Area (SWQMA) defined as land within 1,000 ft of lakes and ponds or within 300 ft of perennial streams draining to these waters, unless manure is deposited through winter gleaning/pasturing of plant residue and not exceeding the N and P requirements of this standard; Additional areas identified within a conservation plan as contributing runoff to surface or groundwater	x		
e.	Areas where winter applications are restricted unless effectively incorporated within 72 hours: Land contributing runoff within 200 feet upslope of direct conduits to groundwater such as a well, sinkhole, fractured bedrock at the surface, tile inlet, or nonmetallic mine	x		
f.	Sites vulnerable to N leaching: Areas within 1,000 feet of a municipal well, and soils listed in Appendix 1 of the Conservation Planning Technical Note WI-1	x		
2.	Are erosion controls implemented so the crop rotation will not exceed T on fields that receive nutrients according to the conservation plan or WI P Index model?	x		
3.	Were soil samples collected and analyzed within the last 4 years according to UW Publication A2100 recommendations?		x	
4.	Using the field's predominant soil series and realistic yield goals, are planned nutrient application rates, timing, and methods of all forms of N, P, and K listed in the plan and consistent with UW Publication A 2809, Soil Test Recommendations for Field, Vegetable and Fruit Crops, and the 590 standard?	x		
5.	Do manure production and collection estimates correspond to the acreage needed in the plan? Are manure application rates realistic for the calibrated equipment used?	x		
6.	Is a single phosphorus (P) assessment of either the P Index or soil test P management strategy uniformly applied to all fields within a tract?	x		
7.	Are areas of concentrated flow, resulting in reoccurring gullies, planned to be protected with perennial vegetative cover?	x		
8.	Will nutrient applications on non-frozen soil within the SWQMA comply with the following?			
a.	standard to minimize runoff			x
b.	One or more of the following practices will be used: 1) Install/maintain permanent vegetative buffers, or 2) Maintain greater than 30% crop residue or vegetative coverage on the surface after nutrient application, or 3) Incorporate nutrients leaving adequate residue to meet tolerable soil loss, or 4) Establish fall cover crops promptly following application			

I certify that the nutrient management plan represented by this checklist complies with Wisconsin's NRCS 590 nutrient management standard. Signature of qualified nutrient management planner 3/5/16

JACKSON COUNTY LAND CONSERVATION DEPARTMENT

307 Main Street, Courthouse Black River Falls, WI. 54615

Telephone: (715) 284-0256 Fax: (715) 284-0238

April 15, 2016

Bert and Lucille Bush N2750 County Road N Melrose, WI 54642

Subject: NR 151 Performance Standards and Prohibitions Jackson County Livestock and Animal Facility License 2014 – 198 – L

Dear Bert and Lucille,

Thank you for your most recent efforts to improve and protect our state's water resources. This letter is to acknowledge that you have successfully implemented nonpoint source pollution control best management practices on your farm under cost-share agreement NOD-JC-07-2014. Installing practices under this cost share agreement has brought you into compliance with performance standards and prohibitions as described in the table below.

Standard/Prohibition	Description of Compliance Location
NR 151.07 Nutrient Management	Cropland acres described in the Nutrient Management Plan
NR 151.08 (3) Prohibition on unconfined manure in the Water Quality Management Area	T. 20 N., R. 5 W. Section 31, Part of the East One-Half of the Northeast Quarter
NR 151.08 (4) Prohibition on direct runoff from a feedlot or stored manure NR 151.08 (5) Prohibition on	T. 20 N., R. 5 W. Section 31, Part of the East One-Half of the Northeast Quarter
unlimited livestock access to waters of the state	

In accordance with Ch. NR 151, Wis. Adm. Code, any cropland practice or livestock facility that is brought into compliance with a state performance standard or prohibition must remain in compliance in perpetuity regardless of future cost sharing. Since you are now deemed in compliance with state standards and prohibitions as identified above, it is required that you and any future landowners or operators maintain compliance with the standards and prohibition.

The site is licensed by the Jackson County Livestock and Animal Facility Licensing Ordinance for up to 123 animal units. If the site exceeds 1000 animal units in the next twelve months, from this date, the cost-share money will be repaid to Jackson County or the Wisconsin Department of Natural Resources as agreed to in the cost-share agreement signed in September 2014.

Compliance with the state and county performance standards listed in this letter and the cost-share agreement NOD-JC-07-2014 are required. Compliance with the Operations and Maintenance Plans listed as part of the designs in the Best Management Practices that were installed on your farm is also required.

The facilities and site must meet and maintain the following state and county environmental standards:

- a. No overflow of manure storage structures
- b. No unconfined manure stacking (piling) within the Water Quality Management Areas.
- c. No direct runoff from facilities or stored manure to the waters of the State.
- d. No unlimited livestock access to waters of the State where sod cover is compromised in the process and/or a pollution hazard is created by a concentration of livestock.

A site inspection by the Land Conservation Department will occur at least once every five years to monitor compliance with the ordinance.

If you have any further questions, please contact the Jackson County Land Conservation Department at 715.284.0256.

Sincerely,

Yaylord E. Olson Gaylord E. Olson I

County Conservationist

Cc: Cindy Koperski - DNR Regional Coordinator

State of Wisconsin DEPARTMENT OF NATURAL RESOURCES 3550 Mormon Coulee Road La Crosse WI 54601

Scott Walker, Governor Cathy Stepp, Secretary Scott Humrickhouse, Regional Director Telephone 608-785-9000 FAX 608-785-9990



July 29, 2014

Bert E. and Lucille Bush N2750 County Road N Melrose, WI 54642

Subject: Notice of Discharge - Category II

Dear Mr. Bush:

I am writing to you regarding water quality impacts associated with your dairy operation. In August, 2013, Gaylord Olson of the Jackson County Land Conservation Department and I visited your property located in the East One-Half of the Northeast Quarter, Section 31, Township 20 North, Range 5 West, in the Town of Irving. A noncompliant feedlot was causing manure runoff to flow overland towards Woodward Creek. The Department considers this discharge a serious violation, especially since Woodward Creek is an impaired water of the state.

This letter is official notification that you are hereby issued a Category II Notice of Discharge (NOD) in accordance with section NR 243.24(1)(b), Wis. Adm. Code. This NOD serves as an order to correct these unacceptable management practices. State Law requires you to meet the requirements of this NOD without the guarantee of cost share dollars.

Since you have cooperatively agreed to correct the problem and work with the Jackson County Land Conservation Department, they have worked to secure funding for your project. They were successful in securing funding from the Wisconsin DNR on your behalf.

In order to comply with this NOD, you must take corrective action on your property identified above by **September 30, 2015.** If the discharge is not permanently eliminated or significantly reduced by this date, the Department may take additional stepped enforcement action that includes issuance of citations, issuance of a WPDES permit or take other appropriate enforcement action such as referral to the Department of Justice for prosecution.

Specifically, you must install permanent best management practices to address discharges from your operation. There are a number of best management practices that could be used to address discharges from your facility including but not limited to the following:

Roofed Feedlot Animal Trails & Walkways Livestock Watering Facilities Streambank Rip-rapping Streambank Fencing Barnyard Runoff Control Systems Livestock Fencing Sediment Basins Streambank Shaping and Seeding

By taking these measures to address the discharges, you will also find that you have achieved compliance with one or more state agricultural performance standards and prohibitions contained in subchapter II of Chapter NR

151. In accordance with NR 151, once you achieve compliance with a state performance standard or prohibition, you and all future landowners must maintain that compliance without regard to future cost sharing.

I encourage you to continue to work cooperatively with the Jackson County Land Conservation Department to take the necessary management actions to improve the water quality of Woodward Creek.

Your cooperation in this matter is appreciated. Feel free to contact me at (608) 785-9984 if you have further questions.

Sincerely,

pershi

Cindy Koperski Runoff Management Specialist

Cc: Gaylord Olson, Jackson County Land Conservation Department Bob Baczynski – WD – Baldwin DNR Amy Callis – WT/3, Madison DNR Dave Calhoon – CF/2, Madison DNR