Save... Clear Data

Site 1 - Information

Note: In order to fill and save this form electronically, it must be opened using Adobe Reader or Acrobat software. Save a copy of the file, open Adobe Reader, select File > Open and browse for the file you saved.

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 11/18)

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					to to the Bep		J. 11 C G 1 1	TO COTTON	1000	-G. 000 (2	211119
Grant Type											
Select Grant Type Notice of Discharge											
Grant Information											
Grantee - Governmental Unit Name	Grantee - Governmental Unit Name					Grant Number					
Shawano County	Shawano County					NOD59000Y17					
Project Name											
Zernicke Landstad Dairy LLC											
Project Contact Name	Phone			E-mail Address					<u> </u>		
Blake Schuebel (715) 526-4633 Blake.Schuebel@co.shawano.wi.us								/i.us			
Site 1 - Location & Watershed Information				Additional sites may b Animal Units	e added to the			cking or			itton
Name of Cost-Share Recipient				Animal Units		Latitu			Longitude -88.4622		
Zernicke's Landstad Dairy LLC	jit HUC			12-Digit Watershe							
)202080	1		East Branch of		wer					
Nearest Receiving Waterbody	1202000	T		Primary Waterboo			roject				
Unnamed order 1				East Branch of	The second secon		nojeci				
Site 1 - BMP & Load Reduction Informatio	n			Additional BMPs		THE STATE OF USE OF	added b	∨ clickin	a on (the [+] bu	itton
	Î	1		Performance	1	Load Reduction		76 976		Tota	
Best Management Practice Installed	Quantity		nit of asure	Standard/Prohibition	Phosphorus			Sedim	ediment Installa		ation
		14.00	100.0	Addressed	lbs/yr	lb	s/yr	Tons	:/yr	Cos	st
Feed Storage Runoff Control System	1	N	Jo.	Code(s)	634	3,	168			\$304,59	96.26
Manure Storage Systems			0.	Code(s)							
Manure Storage Systems	1	Ν	Jo.	7						\$75,19	91.00
Nutrient Management	1,161	ac	res	Code(s)						9	\$0.00
Model(s)/Methods Used to Calculate Load Reduction (check all that apply)											
STEPL SNAP+ BARNY		H-1-15-00-00-00-00-00-00-00-00-00-00-00-00-00			Leachate	colle	ction S	vstem			
Site 1 - Compliance Requirements	TOOLL L	K	<u></u>	ici (opeon))							
A CONTRACTOR OF THE CONTRACTOR			Chs	NR 151 or 243 Wis	s. Notice Le	otter	Comp	liance	C	ompliar	100
Performance Standard or Prohibition Add	ressed		Adm	. Code Notice Typ	e Attache		Achie	eved?		er attacl	
Process wastewater handling.			NOI	/ NOD	Yes		Ye	s 🔽		Yes	-
Nutrient management.			NOI	/ NOD	Yes	-	Ye	s 🔽		Yes	-
Check all of the true statements below.							, , , , , , , , , , , , , , , , , , , 			3-1-0/-	
	1 has her	an nl	acad i	n county files							
1. A copy the compliance letter for site 1 has been placed in county files.											
2. The attached compliance letter for site 1:											
a. has been provided by the county to the landowner and cost-share recipient;											
b. identifies each of the performance standards & prohibitions (PS&Ps) on cropland and livestock facilities brought into											
compliance by the project, and listed in the table above;											
 ☑ c. identifies the name and location of the facility where compliance has been achieved; and ☑ d. states that the landowner is obligated to maintain compliance with each PS&P addressed by the project in perpertuity 											
regardless of future cost shar	ing.	o ma	intain	compliance with ea	ach PS&P ac	iaress	sea by 1	.ne proj	ect ir	1 perper	tuity
Site 1 - Required attachments											
Check the box if the required information for the			ned:	100 NO NO	5900 20 0000	Ve					
Photos of pre-and post-implementation	of BMP(s	š)			ction modelir	ng do	cument	is.			
Aerial photo map of site with BMPs labeled Water quality monitoring results/summary, if applicable											

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 11/18) Page 2 of 2

R2 27 30					2000		
Narrat	WAS	nace	Will	expai	nd t	01	Γij
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At the time of the NOD grant application three BMP's were the target of this grant. They were identified as:

- 1)Manure Storage System
- 2) Feed Storage Runoff Control System.
- 3) Nutrient Management

This project is a concrete composite feed pad, which flows into a liquid tight concrete lined manure storage. Pad dimensions are 260'x340', the waste storage is 84'x220'x8' deep. This will hold about 180 days of leachate from feed pad. All nutrients will be land applied according to their nutrient management plan. By completing all of these BMP's on this property, it is now in complete compliance with all of the applicable NR 151 ag-performance standards and prohibitions.

DNR may use this site as a success story to meet state and federal reporting needs. + Loc 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 Scott M. Frank Conservationist 12/18/2018 For DNR Use Only Received complete reports with all attachments Practices implemented were consistent with the grant agreement Comments about this project: Conducted on-site inspection of completed project on 11/8/2018. Everything was installed and was functioning as designed. Compliance letter from DNR will be sent out in the next week. Name of Region Nonpoint Source Coordinator Date 01/07/2019 Eric Evensen 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.

SHAWANO



COUNTY

LAND CONSERVATION DEPARTMENT

311 N MAIN STREET - COURTHOUSE SHAWANO, WI 54166-2145 Phone (715) 526-6766 Fax (715) 526-6273 www.co.shawano.wi.us

December 14, 2018

ZERNICKE'S LANDSTAD DAIRY LLC ATTN: DAN ZERNICKE N2156 TWO CREEKS ROAD BONDUEL, WI 54107

RE: Notice to Maintain Compliance with Agricultural Performance Standards and Prohibitions on property described as: SW ¼, SW ¼ SEC 5 T25N - R17E INCL V5 CSM P198 MAP #1416 (PARCEL # 028-05330-0000), NW ¼, SW ¼ SEC 5 T25N - R17E (PARCEL # 028-05320-0000 and other lands owned/operated for Nutrient Management requirements.

Dear Mr. Zernicke:

The purpose of this letter is to provide notice of the requirement to maintain compliance with state Agricultural Performance Standards and Prohibitions at the livestock facility and cropland addressed in your cost share agreement (NOD-59-18-01).

As a result of installing the conservation practices, the livestock facility has been brought into compliance with following state standards and prohibitions:

- 1) Sheet, Rill and Wind Erosion Performance Standard (s. NR 151.02)
- 2) Manure Storage Facilities Performance Standards (s. NR 151.05)
- 3) Process Wastewater Handling Performance Standard (s. NR 151.055)
- 4) Nutrient Management (s. NR 151.07)
- 5) Manure Management Prohibitions (s. NR 151.08)

In accordance with ch. NR 151, Wis. Adm. Code, any cropland practice or livestock facility that is brought into compliance with a state ag-performance standard or prohibition must remain in compliance in perpetuity regardless of future cost sharing. It is required that you and any future landowners or operators maintain compliance with the standards and prohibitions at the parcels and lands identified. I have enclosed a copy of Chapter NR151 Runoff Management (Subchapters I & II) for your reference.

Thank you for your conservation efforts. They contribute significantly to improved water quality within the Shioc River Watershed. If you have any questions, please contact me.

Sincerely,

Scott M. Frank

County Conservationist

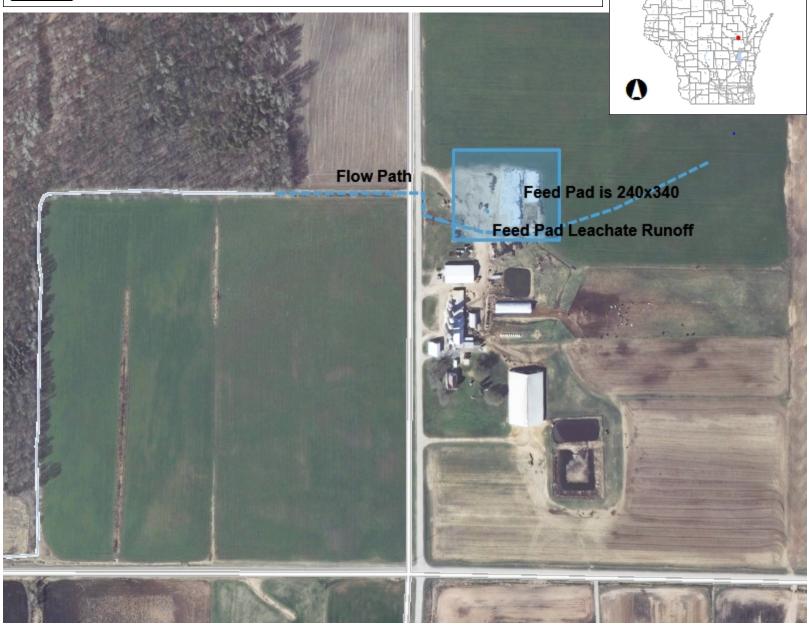
Soft M. Man

(715) 526-4632

Scott.Frank@co.shawano.wi.us

WISCONSIN DEPT. OF NATURAL RESOURCES

Surface Water Data Viewer Map



0.1 Miles

Legend

Intermittent Streams

 24K Hydrography Streams and Rivers

24K Hydrography Lakes and Open Water

Municipality

State Boundaries

County Boundaries

Major Roads

Interstate Highway

State Highway

US Highway

County and Local Roads

County HWY

Local Road

Railroads

Tribal Lands

Rivers and Streams

Intermittent Streams

Lakes and Open water

Index to

EN_Image_Basemap_Leaf_
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Notes

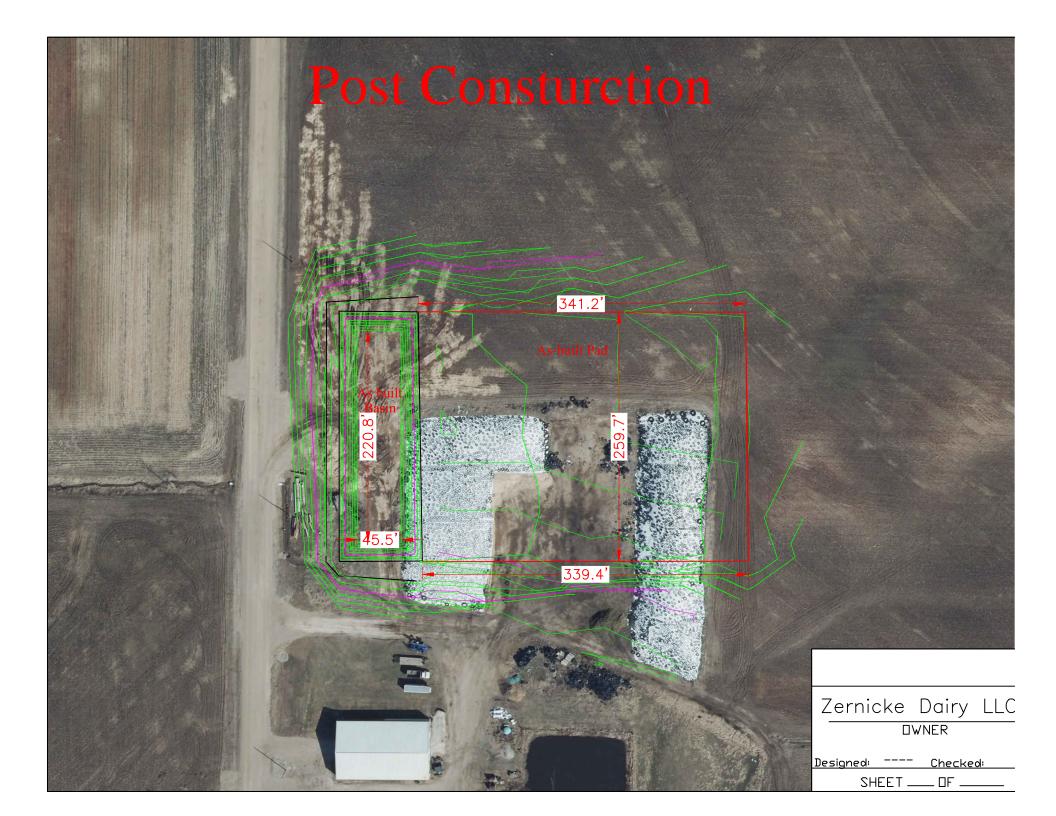
NAD_1983_HARN_Wisconsin_TM

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DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/



Leachate Running off of feed pad, on to driveway. Feed sitting in water.





Leachate on driveway running directly to road ditch and ditching to creek.

Looking West Runoff entering road ditch

O3 16 2016

Looking at contaminated runoff flowing down ditch towards waters of the state.



Aerial of pad being poured, with temporary basin south next to road



Completed basin looking south, with pad to east.



Looking east at the north edge of basin, an new feed pad.



Looking west towards road at basin with safety fence installed.



Leachate Collection System and Vegetative Treatment Area (VTA) Design

		Design Com	putations		
		for			
			1	ver 2-2018	
	andstad Dairy Befo	ore		•	
COUNTY: Shawano			B	efore	
DESIGNED BY: Blake Schueb	pel	DATE:		010.0	
CHECKED BY:		DATE:			
Runoff Calculations	FEED :	STORAGE AREA N	IUTRIENT BALANCE		
Feed Storage Area	86000	ft²	Feed Storage CI	N 95	
Other Tributary Area		ft ²	Other Area C		
Annual Precipitation		inches	Weighted avg. RCN		95.00
Annual Runoff	21.39 i	inches	Drainage area		1.97 Acres
Annual Runoff	153,313 f	ft ³			
Annual Runoff		acre-inches			
VTA Calculations (Nutrient Balance)					
Feed Storage Area Maintenance	Poor		If waste stream is sar	mpled, enter nutrient values below	
N Content in Runoff			N Content in Runoff		lb/acre-in
Annual N in runoff applied to VTA			P Content in Runoff		Ib/acre-in
P content in runoff		b/acre-in			
Annual P in runoff applied to VTA		bs			
Yield of VTA vegetation N uptake		ons/acre bs/acre	Type of Vegetation		
Puptake		bs/acre bs/acre			
Min. VTA size based on N		acres			
Min. VTA size based on P		acres			
Min. VTA size		icres			
VTA Calculations (Water Balance)					
_					
Annual Wastewater Depth to Apply		nches			
Min. VTA Size	#DIV/0! a	cres			
Cuma ma a no.					
Summary Min. VTA Size	#DIV/0! a	cres			
Depth per Application		nches			
Volume per Application	#DIV/0! ft				
Volume per Application		allons			

Leachate Collection System and Vegetative Treatment Area (VTA) Design

			Design Co	mputations		
				or		
					ver 2-2018	
LANDOWER:	Zernicke I	Landstad Dairy	after		01.0	
COUNTY:	Shawano			H+	rten	
Г						
DESIGNED BY:	Blake Schue	bel	DATE:			
CHECKED BY:			DATE:			
		FEE	D STORAGE AREA	A NUTRIENT BALANCE		
Runoff Calcula	ntions		_			
	Feed Storage Area	86000	ft ²	Feed Storage CN	98	
	Other Tributary Area	0	ft²	Other Area CN	0	
	г					
	Annual Precipitation	32.71	inches	Weighted avg. RCN	g	98.00
	Annual Runoff	30.85	inches	Drainage area		1.97 Acres
	Annual Runoff	221,105	Tft ³			
	Annual Runoff	60.91	acre-inches			
	Annaarkanon	00.51	acre-inches			
VTA Calculatio	ns (Nutrient Balance)					
	torage Area Maintenance	Good		If waste stream is san	npled, enter nutrient values below	
	N Content in Runoff	25	lb/acre-in	N Content in Runoff		lb/acre-in
Annual I	N in runoff applied to VTA	1523	lbs 🛑	P Content in Runoff		lb/acre-in
	P content in runoff	5	lb/acre in			ib/ dele iii
Annual	P in runoff applied to VTA	305	lbe			
	Yield of VTA vegetation	#N/A	tons/acre	Type of Vegetation		
	N uptake	#N/A	lbs/acre			
	Puptake	#N/A	lbs/acre			
	Min. VTA size based on N	#N/A	acres	3 011	11-61	<i>P</i>
	Min. VTA size based on P	#N/A	acres	~	colle Ctes	1
	Min. VTA size	#N/A	acres			
VTA Calculation	ns (Water Balance)					
VIA Calculation	iis (water balance)					
Ammunal 187a	atawata Barth to Arrel		7. ,			
Annuai wa	astewater Depth to Apply Min. VTA Size	#DIV/0!	inches			
	14/111. 4 1A 3126	πυιν/υ:	acres			
Summary			7			
	Min. VTA Size	#DIV/0!	acres			
	Depth per Application	UD 0 - 20 1	inches			
	Volume per Application	#DIV/0!	ft ³			
	Volume per Application	#DIV/0!	gallons			