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 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				
David Kluenker				
Grant Number		Governmental Unit	Name	
NOD36000Y16	•	Manitowoc Cour	nty Soil & Water Conservation Dept.	
County	Watershed Name		12-Digit HUC	
Manitowoc	Manitowoc River		040301010605	
Project Contact Name	Phone Number		E-mail Address	
Jerry Halverson	(920) 68	3-4183	jerryhalverson@co.manitowoc.wi.us	
For a project with multiple site locations, an aerial photo map is attached with each site location labeled.				

Site Location	on - 1												
Name of Cost-Share Recipient					Animal Units		Nearest Receiving Waterbody						
David Kluenker					702 U		Unnar	Unnamed Trib. to Manitowoc River					
Township	Range	E/W	Section		Quarter		Quarter/Qua	ter/Quarter		Latitude	Lor	Longitude	
19	23		10		NE		SE		44	1.134204	-87.	-87.724334	
Compliance	e Require	ments - 1											
Chs. NR 151 or 243 Wis. Adm. Code Notice Type		de Notice atta	e letter ched	r Compliance ac explain in site		nce achieved? If no, in site information		Compliance determination letter attached					
NOI / NOE	NOI/NOD 🛛 🗘			۲	Yes O No			\boxtimes					
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 o	of Results	-1											
Best Management Practice Installed		d	Quantity	Unit of Measure	F Star	Performance To Indard/Prohibition Instal Addressed Co		otal Ilation ost	Lo Phosphorus Ibs/yr	oad Reductio Nitrogen Ibs/yr	on Sediment Tons/yr		
Feed Storage Runoff Control Systems 1		1	No.	Coc 7	le(s)	\$44,852.00							
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)													
Aerial photo map of site with BMPs labeled Water quality monitoring results/summary, if applicable													
Site Information - 1													
Narrative space will expand to fit													
A waste storage structure was constructed to contain 6 months of runoff from the feed storage facility. The facility was													
constructed from existing soils with a 1 foot clay liner. A concrete wall was installed to direct runoff from the feed													
protection. Travis Buckley, DATCP Engineer provided the project design and installation certification.													
DNR may use this site as a success story to meet state and federal reporting needs.													

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Additional Project Information and/or Comment				
Narrative space will expand to fit				
Grantee Certification	4월 25일 14월 25일 14일 25일 14일 25일 25일 25일 25일			
A responsible government official (authorized signat	on) must authorize and date the final report fo	orm prior to submittal to DNR		
A responsible government official (authorized signat	t is semplete and the information contained in	this final report and attachments are		
correct and true.	t is complete and the information contained in	this linal report and attachments are		
Name of Authorized Government Official	Title of Authorized Government Official Date			
Jerry Halverson	erson Department Director			
For DNR Use Only	Called State Said Lease.			
Received complete reports with all attachments	Practices implemented were consist	tent with the grant agreement		
Comments about this project:				
None.				
Average in the second s				
Contraction of the second				
Name of Region Nonpoint Source Coordinator	201	Date		
Erin Hanson	Jacoba D. Duniter J. OwnerD.	12/27/2016		
Send the Final Report and attachments to the Comr Grant Coordinator. Keep a printed copy for the Regi	nunity Financial Assistance Grants Manager a on file.	and to the Runoff Management		



Road Ditch Before Construction









Soil & Water Conservation Department

Jerry Halverson, Department Director jerryhalverson@co.manitowoc.wi.us

Manitowoc County Office Complex • 4319 Expo Drive, P.O. Box 935 • Manitowoc WI 54221-0935 Phone: 920.683.4183 • Fax: 920.683.5131 • TTY: 920.683.5168

December 19, 2016

To: David Kluenker 2822 Wagon wheel Rd Manitowoc, WI 54220

Subject: Certification of compliance and maintenance requirements

The Manitowoc County Soil & Water Conservation Department has determined that the feed storage runoff control system installed on your farm in Section 10 of Manitowoc Rapids (map attached) achieves compliance with NR 151.055 Process Wastewater Handling Performance Standard. The project is partially funded by the Wisconsin Department of Natural Resources.

You are required to maintain compliance with NR 151.055 Process Wastewater Handling Performance Standard in the future regardless of future cost sharing. You are required to annually update and implement a nutrient management plan that meets the requirements of the USDA, Natural Resources Conservation Service (NRCS) Technical Standard 590.

Please contact me with any questions about this determination and required maintenance.

Sincerely,

Bruce Riesterer Resource Conservationist



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State of Wisconsin DEPARTMENT OF NATURAL RESOURCES 2984 Shawano Avenue Green Bay WI 54313-6727

Scott Walker, Governor Cathy Stepp, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



January 14, 2015

David Kluenker 2822 Wagon Wheel Rd Manitowoc WI 54220

Subject: Notice of Discharge

Certified Mail

Dear Mr. Kluenker:

On November 14, 2014 the Department of Natural Resources (Department) and Manitowoc County Soil and Water Conservation Department (County) inspected your livestock operation located in the SE¼ of SE¼ of S10 T19N R20E in the Town of Manitowoc Rapids, Manitowoc County. The operation has approximately 360 milking cows and consists of a freestall barn, parlor, feed storage area and two manure storage facilities. Please see the enclosed site inspection summary for details.

Based on this investigation, the Department has reason to believe that:

- Your operation has had and will continue to have a Category I discharge under s. NR 243.24(1)(a), Wisconsin Administrative Code, that is a significant contributor of pollutants to navigable waters. Contaminated feed storage runoff is discharging into an intermittent stream that is an unnamed tributary to the Manitowoc River.
- Your operation houses more than 300 animal units.
- Your operation is defined as a medium Concentrated Animal Feeding Operation (CAFO) under s. 243.26(1), Wis. Adm. Code.

The Department considers this discharge a serious violation and through this letter is issuing your operation a Notice of Discharge (NOD) as a Category I discharge in accordance with s. NR243.24(3), Wis. Adm. Code. Since the discharge is considered a Category I discharge, state rules do not require that cost share dollars be offered to you to implement best management practices and the state does not have to provide cost share dollars to you to stop the discharge.

To comply with this notice, complete the following actions:

- Identify and install interim best management practices (BMPs) that will reduce the immediate risk of further contaminated runoff to waters of the state. Suggested interim BMPs include breaking the tile line (approximately 30-50 feet in length just down from the feed storage pad) to prevent it from carrying leachate directly to the ditch, keeping feed well covered, and keeping the feed pad clean and clear of waste feed. The Department expects you to submit the interim BMP plan to me by <u>March 31, 2015</u> and to implement your plan no later than <u>May 30, 2015</u>.
- Submit a completed Animal Units Calculation Worksheet (Form 3400-025A enclosed) and a copy of your Nutrient Management Plan that meets NRCS Conservation Practice Standard 590 to me by <u>March 31</u>, <u>2015</u>. Submit annual Nutrient Management Plan updates to the County by the date they establish.
- Install permanent BMPs to address the discharge from your operation. The Department expects you to submit your permanent BMP plan to me by <u>September 1, 2015</u> and complete installation of the permanent BMPs by <u>September 1, 2016</u>. BMPs that address discharges from your feed storage area may include a



permanent reception tank and pump, grading to separate clean water from contaminated runoff, and/or a vegetated treatment area.

The County may be able to provide you with technical assistance on this project. Again, because your operation is considered to have a Category I discharge, State Law does not require cost share dollars be offered to you to implement interim or permanent best management practices. However, the County may be willing to apply for grant money on your behalf. Contact Jerry Halverson, at 920-683-4183, for more information.

The Department is issuing this Notice of Discharge for your livestock operation; it is your responsibility to stop the discharge in a timely manner. According to the schedule presented above, your initial written response including the Animal Units Calculation Worksheet, Nutrient Management Plan, and interim BMP plan is due no later than March 31, 2015. Your cooperation in this matter is appreciated.

Contact me at (920) 662-5419 or ErinE.Hanson@wisconsin.gov if you have any questions about this letter.

Sincerely,

Pin Hanson

Erin E. Hanson Nonpoint Source Coordinator

Enclosures: Animal Unit Calculation Worksheet (Form 3400-025A) and Instructions Site Inspection Report (1/12/15)

E-copy: Danielle Block, Amy Callis, Rick Stoll – DNR Tony Smith, Jerry Halverson – Manitowoc County Soil and Water Conservation Department

Inspection Report – Complaint Investigation, Medium Size Farm (01/12/14)

Date:	November 14, 2014
Owner:	David Kluenker
Site Address:	5688 Homestead Rd, SE¼ SE¼ S10 T19N R23E, Town of Manitowoc Rapids (Manitowoc County)
DNR Staff:	Erin Hanson, Nonpoint Source Coordinator – Northeast Region

On November 14, 2014 at 11:00 am Hanson, Kody Hansen (DNR) and Tony Smith (Manitowoc County Soil and Water Conservation Department) met with David Kluenker at his farm to follow up on an anonymous complaint of discharge to an intermittent stream that flows through the Wagon Wheel Road ditch to the Manitowoc River (photo 1).

Hanson had viewed the stream from Wagon Wheel Road on 10/30/14 after receiving the complaint and seen a thick growth of algae or bacteria that covered the bottom of the west road ditch. The growth started just south of Kluenker's north driveway off Wagon Wheel Rd and extended south through the intermittent stream (photos 1, 3 & 4), but was not present in the east road ditch, nor north of the driveway. Hanson had consulted with DNR biologists who said the growth was likely a type of bacteria commonly found in streams polluted by organic wastes.

On 11/14/14 the group saw a similar, thick growth in the ditch which Kluenker said he first noticed in July 2014. A drain tile runs through the field (cropped with corn in 2013 & 2014) and outlets in the Wagon Wheel Rd ditch just north of the driveway. It was damaged in 2014 and the group could see feed leachate in the tile line by the driveway (photo 5). The group determined that leachate from the feed storage pad (photos 6 & 7) is getting into the tile line and is the source of the nutrients and organics that are causing the very dense growth in the intermittent stream. Following the site visit, Smith found that adjacent fields are not connected to this drain tile. This further supports the conclusion that the growth is related to leachate from Kluenker's feed storage and not some other up-gradient source.

Summary

Practices are needed to control runoff from the feed storage pad and reduce the discharge of nutrients and organics into the road ditch, the intermittent stream and ultimately the Manitowoc River.

Photo 1 (left): Site overview showing location of growth in the road ditch (green oval), the intermittent stream (white dashed line), and the Manitowoc River (blue). Photo 2 (right): Site overview showing a <u>generalized indication</u> of the runoff path (orange arrows) from the feed storage pad overland to the field drain tile and into the road ditch and intermittent stream (white dashed line).



Photo 3 (left): Looking northwest at growth in Wagon Wheel Rd ditch immediately south of Kluenker's driveway. Photo 4 (right): Close up view of a portion of the thick growth in Wagon Wheel Rd ditch.



Photo 4 (left): Looking down at exposed tile line in field by Kluenker's driveway and leachate in tile line. Photo 5 (right): Leachate on north of the feed storage pad moving downslope through field towards area drained by tile.



Photo 6 (left): Looking east from feed storage pad at leachate path through field towards area drained by tile.

