State of Wisconsin
Department of Natural Resources
Bureau of Watershed Management,
Runoff Management Section, WT/3
101 South Webster St.
Madison, WI 53703, OR
P. O. Box 7921, Madison, WI 53707-7921

Substitution Request for Targeted Runoff Management, and Urban Nonpoint Source & Storm Water Management-Construction Grants

Notice: Complete this application if you want to change the location where practices were to be installed after grant assistance has been awarded by the Dept of Natural Resources, as required under ss. 281.65 and 281.66, Wis. Stats., and Chapters NR 153 and 155, Wis. Adm. Code. Information collected will be used for program budget analysis and project evaluation. Personally identifiable information will be used for program administration and may be made available to requesters under Wisconsin's Open Records Law [ss.19.31-19.39, Wis. Stats.]

Instructions:
A grantee selected for funding through either the Targeted Runoff Management (TRM) or the Urban Nonpoint Source & Storm Water Management (UNPS&SW) Grant Program may propose substitutions to the original project proposal. Completion of this form is required for substitutions to the initial grant, including alternative locations for installing practices and, in some cases, revisions to best management practices (BMPs). The grantee must certify that the substitution will achieve results comparable to those anticipated through the original project proposal. All project substitutions must comply with federal and state laws for the protection of cultural and historical resources, and for detecting and managing contaminated soils or solid waste encountered during installation of the BMPs. If such materials are encountered, the grantee shall immediately contact the Department's Regional Nonpoint Source (NPS) Coordinator. The Department may terminate this proposed grant substitution if it determines that installation and operation of the best management practices may facilitate movement of hazardous substances to waters of the state.

Please answer the following questions and sign the form. Submit a signed printed copy of the request, including any attachments, to the Department's Regional NPS Coordinator for your area. If an alternative BMP location is being proposed, include a photocopy of a topographic map showing the location of the proposed location.

The most current grant application, found at: http://dnr.wi.gov/runoff/grants/applications/ will be used by the Department in making decisions concerning this substitution request.

The Department's Surface Water Data Viewer (http://dnr.wi.gov/org/water/data_viewer.htm) may be helpful in answering some of the following questions.

Grantee Information

Governmental Unit Name **Marinette County**		Grant Number **TRC-GB07-38000-10 F**	
Former Project Name **Prestine Farm Manure Management**		Watershed in Which Project Was To Be Located *(Must be in the same Watershed as original grant)* **GB07**	
Legislative District: (find at : http://www.legis.state.wi.us/) Senate 30 Assembly 89			
Proposed Project Name **Kuchta Farm Manure Management**		Watershed in Which Proposed Project Is to be Located *(Must be in the same Watershed as original grant)* **GB07**	
Proposed Watershed Name **Lower Peshtigo River**	Proposed Waterbody Code **GB07**	Proposed Primary Waterbody Name **Bundy Creek**	Proposed Nearest Waterbody Name **Bundy Creek**
Proposed 12-digit federal Hydrologic Unit Code: 040301040405		Does the waterbody appear on the State of WI list of impaired waters submitted to the USEPA in compliance with sec. 303(d) of the Clean Water Act (33 USC § 1251. *et seq.*)? ☐ Yes ☒ No Name of s. 303(d) Listed Waterbody:	

Pollutants to be addressed by the project: (*Note: To remain eligible for federal funding, the pollutants to be controlled by the proposed project must be those responsible for the waterbody impairment as shown by the federally-approved 303(d) List of Impaired Waters. To determine the waterbody's impairment, refer to the list found at:* http://dnr.wi.gov/org/water/wm/watersummary/Waterqualityassessment.html)

☒ Nutrients ☐ Sediment Other:

Questions

1. Reason for Request:

State the rationale for requesting this substitution. If requesting new or replacement BMPs, you must identify the BMP. Also include a revised budget sheet for Part I, Question 1.B of the application. #1

Mr Prestine has sold his cattle and the operation is no longer in business. The Kuchta Farm that we are requesting to substitute, is less than three miles away. The watershed boundary between the Little River Watershed (a closed Priority Watershed) and the Lower Peshtigo River Watershed runs right through the Kuchta animal lot. This substitution proposes the installation of a roofed barnyard and roofed manure storage at this beef operation.

Therefore we would like to add Roofs to the project and delete the Milking Center Waste Control and Manure Transfer.

2. Analysis of Request for Substitution:

Yes	No	NA	
☒	☐		a. The proposed substitution is in the same hydrological unit (the federally-assigned numeric code for a subdivision of a watershed, used to organize hydrologic data,) and affects the same water resources identified in the original application. Identify the location of the proposed BMP(s) below.

MCD (Minor Civil Division)	Township	Range	E or W (identify)	Section	Quarter	Quarter/ Quarter	Latitude (degrees, minutes and seconds, only, North of the Equator	Longitude (degrees, minutes, and seconds, only, West of the Prime Meridian, in Greenwich, England
Grover, Town of	**30N**	**21**	**E**	**34**	**SE**	**SE**	**45 1' 19.5"**	**87 55' 30.8"**

			b. Navigable Waters and Wetland Determinations
☐	☐	☒	i. Navigable Waters: If this project will install an urban storm water treatment practice, the applicant has determined that the practice will not be located in any intermittent or perennial waterway as shown on a map from the Department's Surface Water Data Viewer identified below. Check to indicate the map has been consulted. ☐ Surface Water Data Viewer Map, 24K Hydro Layer at: http://dnr.wi.gov/org/water/data_viewer.htm

TRM Grant Application – CY 2010 Funding
Form 8700-300 (R 1/09) Page ___ of ___

TRM Grant Project Name
KUCHTA (FROM PRISTINE)

Part II. Minimum Qualifications

Question 1. Fiscal Accountability

A. Timeline and Source of Staff
For each applicable milestone listed below, fill in the appropriate data: #2

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	4/12	County
Obtaining required permits	8/12	County
Landowner contacts	6/10	County
CSA signing	5/11	County
Bidding	5/12	Landowner and Contractor
DNR approvals	6/12	County & WDNR
Contract signing	7/12	County
BMP construction	9/12	County
Site inspection and certification	12/12	County
Project evaluation	12/12	County & WDNR
Purchase street sweeper (urban only)		NA
Other (specify)		

B. Adequate Financial Budget
Provide the following information for the project. The grant amount is capped at $150,000.

#1 FINANCIAL BUDGET TABLE

A. Project Activity for Which DNR Funding is Requested	B. Estimated Total Cost ($)	C. Amount from Column B Eligible for DNR Cost Sharing ($)
Construction Components:		
slab	35,100	35,100
wall/lid	32,160	32,160
excavation	2,400	2,400
fill	31,990	31,990
shaping/seeding	2,000	2,000
gates/fence	17,120	17,120
pipes/pumps/plumbing	0	0
electrical	0	0
miscellaneous	500	500
gutters	0	0
roof	184,320	184,320
1. Construction Subtotal	$305,590	$305,590
2. Engineering Services (including design)	$5,000	$5,000
3. Storm Sewer Reroute (Urban projects only)	$0	$0
4. Structure Removal (Urban projects only)	$0	$0
5. Subtotal: [add Rows (1.) through (4.)]	$310,590	$310,590
6. Property Acquisition: Fee Title & Easement	$0	$0
7. Grand Total: [add Rows (5.) and (6.)]	$310,590	$310,590

#4 cont.

TRM Grant Project Name: KUCHTA (FROM PRESTAUR

Part II. Minimum Qualifications (continued)

Cost-Sharing Worksheet

Eligible Costs:

		Prorate %	Cost-Share %		
8. Construction, engineering services, etc.		100%	70%	$	217,413
Costs Specific to **Agricultural** Projects:					
9. Land Purchase (Fee Title)	$0	-	50%	$	0
10. Agricultural Easements	$0	-	70%	$	0
Costs Specific to **Urban** Projects:					
11. Property Acquisition: Fee Title and Easement	$	100%	50%	$	0
12. Storm Sewer Rerouting		100%	50%	$	0
13. Structure Removal		100%	50%	$	0
14. Total Eligible Costs: [sum Rows (8.) through (13.)]				$	217,413
Cap Test:					
15. Maximum State Share: [(Row 14.) or $150,000, whichever is less]				$	150,000
State and Local Share:					
16. Requested State-Share Amount (Requested Grant Amount)				$	150,000
17. Local-Share Amount: [(Row 7.), Column B. less (Row 16.)]				$	160,590

Method(s) Used to Calculate Cost Estimates

-Based on our completed design, we solicited and received bids for the projects in addition to the cost estimate we developed using the methodology described below.

-Met with the landowner at the site to assess and record his current management style and future management objectives. Record animal types, numbers and weights, bedding type and volume, manure consistency, housing type, rolling herd average, milking center waste volume and desired storage duration.

-Filedl out the "Companion Document" and "Manure Storage Design Spreadsheet" to gather data and perform calculations to estimate costs.

-Walk over the site to look for obvious physical limitations that will govern the location, type, size or depth of structures that can be built.

-Dig test pits where appropriate to determine soil types, depth to bedrock and water table, etc.

-Return to office and review aerial and topographic maps and soil survey maps to aid in preliminary design parameters. To further investigate local geological conditions, review soil investigation logs from neighboring farms when available.

-Use soil survey information and knowledge of local geography to determine an environmentally safe storage duration.

-Using DATCP and NRCS parameters, run applicable pollutant delivery computer models and design the structures needed to address water quality needs for the site.

-The preliminary design and knowledge of the site are then used to estimate the quantities needed to construct the best management practices needed to address the water quality needs for the site.

-The estimated cost is calculated by integrating competative bids and the average costs for materials from past projects constructed in Marinette County. Each year these costs are reviewed and updated to ensure we are providing accurate estimates to our constituents. The list is then "proofed" by randomly calling local contractors and soliciting their prices for the materials on the list.

C. Cost-Effectiveness

At a minimum, you must provide narrative answers to Parts C. 1. and C.2. You are advised to answer Part C.3., though you are not required to do so.

1. Describe the environmental benefits this project will achieve. If you have already described this to your satisfaction in the Project Summary (Project Information, Part C.), you may answer here:, "See Project Summary."

TRM Grant Project Name

KUCHTA (FROM PRESTIGE)

Part II. Minimum Qualifications (continued)

#3

The roofed manure storage system and roofed barnyard runoff practices will be a no runoff system to stop nitrates, bacteria, organic matter, and 93.1 pounds of phosphorus annually, from entering wetlands that drain to Little River and Bundy Creek. Installation of a manure storage facility will end winter spreading of manure on the 160 acres of cropland controlled by the operator and allow the landowner to apply accumulated animal waste according to a NRCS 590 compliant nutrient plan.

Installation of these practices will allow the operator to limit hauling and spreading of manure to two times per year in spring and fall. This will reduce the smells, noise, road littter and dust resulting from hauling and spreading. The result will be a reduction in conflicts between the farm operation and the non farm community. Also see the project scope.

2. Describe why the proposed management measures are a reasonable means to attain the project benefits based upon such factors as cost, effectiveness, site feasibility, available technical standards, and practicality.

To maintain cost effectiveness, Marinette County explored all practical design and construction material options. The proposed system provides the highest environmental benefit per dollar spent. The costs are calculated using an average cost list based on the actual costs of more than 30 major projects completed in Marinette County over the last five years. Requiring multiple bids, as we do, keeps costs competitive.

The BMP's will be installed to best take advantage of the topography of the site and overcome limitations such as shallow bed rock or depth to water table. The current management strategy and existing building placement are also considered to maximize the environmental protection. All BMP design recommendations are thoroughly discussed with the landowner/operator.

The manure storage will be sized to hold the manure from the animals on the site, milking center waste, and barnyard runoff. The transfer system will deliver manure and milkhouse waste to the storage facility. The barnyard runoff will be routed to the manure storage. These practices in combination will insure a nearly 100% reduction in direct pollution loads to waters of the state.

All practices will be designed following the appropriate NRCS Technical Guide standards. The manure storage facility, in conjunction with the nutrient management plan, will ensure the operator spreads manure only at times that allow for proper incorporation into the soil.

There is no alternative to having an appropriately sized manure storage facility for proper implementation of a 590 compliant nutrient management plan. All of our BMP's are installed based on the producers management style and designed to require the minimum amount of active management for success.

3. If you evaluated one or more alternative management measures, describe why the alternative(s) is not being recommended.

There is no alternative to having a properly sized manure storage facility when it comes to properly implementing a nutrient management plan. The soil conditions at the site preclude the use of an earthen facility. The much stiffer consistency of beef manure dictates the use of a roof over the barnyard and storage. If precipitation reaches the beef manure it becomes too loose handle easily but not liquid enough to pump. This situation would require the addition of clean water to further liquify the manure. Additional costs for added storage capacity, tranfer system, and pumps would be the result. It would also mean increased management effort and energy costs to the farmer.

Our design approach also minimizes the amount of time and effort required by the operator. Experience, research, and consultation with others have demonstrated that those water quality BMP's which reduce farmer effort to implement, succeed. Those that require more effort to implement than the practices they replace, tend to fail.

Question 2. Project Evaluation Strategy

#41

Animal Unit Calculations: Current Number of AUs on Operation

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*
Dairy/Beef Calves (under 400 lbs)		0.20 x		=	*Fed numbers in this column comply with 40 CFR s. 122.23*		
Dairy Cattle	Milking & Dry Cows	1.40 x		=	1.43 x		=
	Heifers (800 lbs to 1200 lbs)	1.10 x	35	= 39			
	Heifers (400 lbs to 800 lbs)	0.60 x	60	= 36	1.00 x	95	= 95
Beef	Steers or Cows (400 lbs to market)	1.00 x	92	= 92			
	Bulls (each)	1.40 x		=	1.00 x	92	= 92
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		=

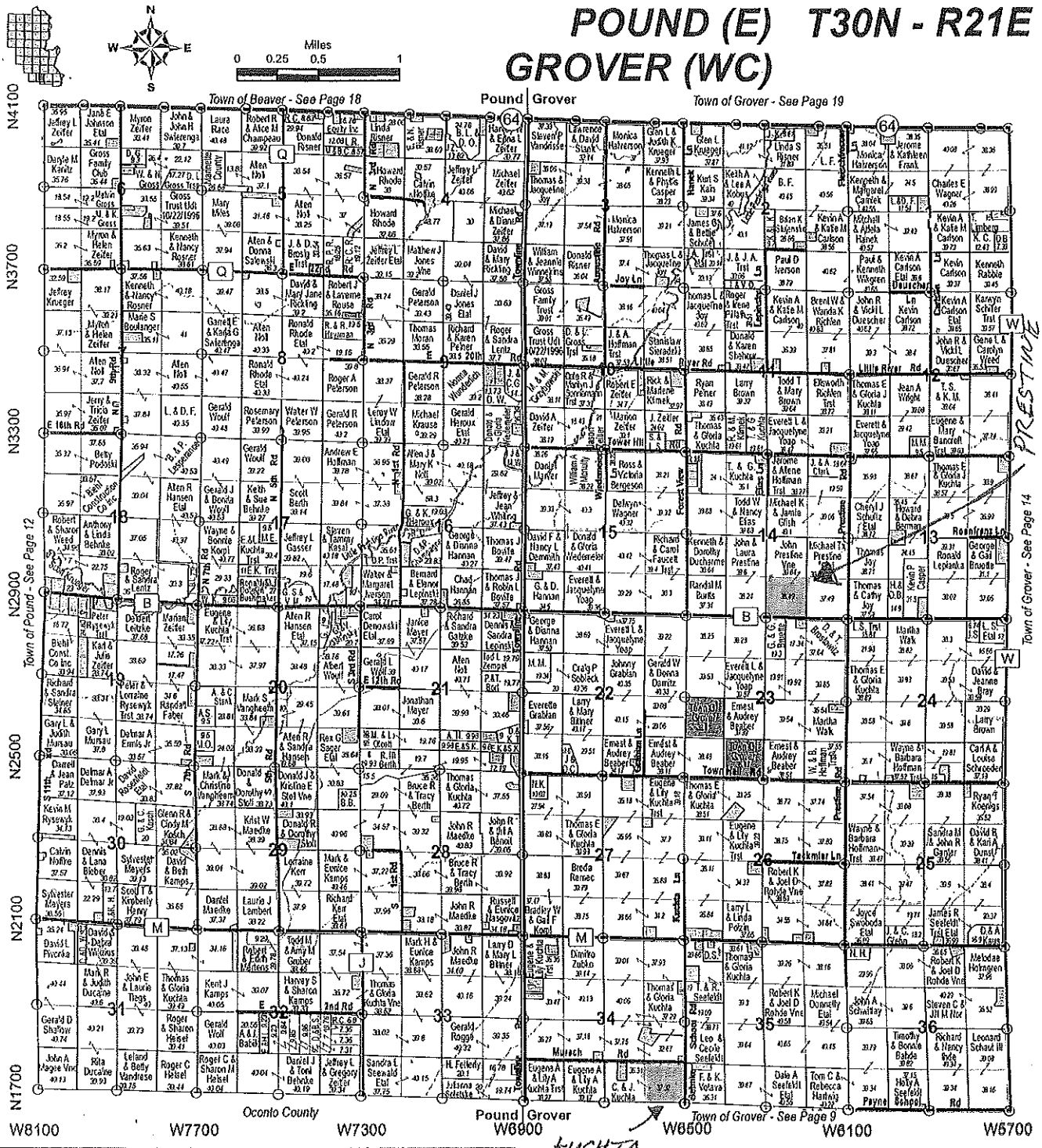
Total Animal Units:

Total Mixed Animal Units = 167
(add all rows above)

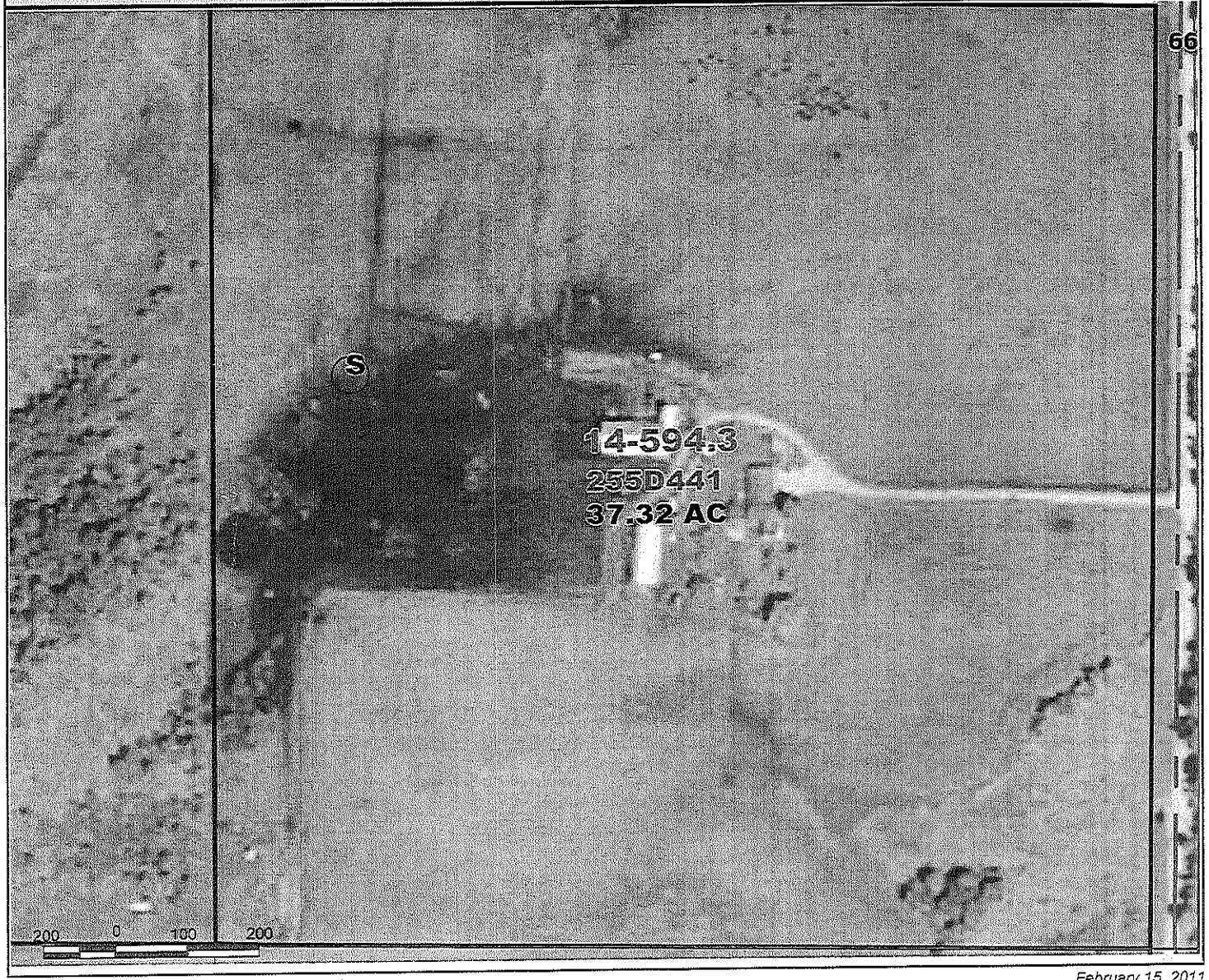
Total Non-Mixed Animal Units = 95
(Enter the single highest number from any row above; DO NOT add the totals)

Does operation need a WPDES permit? NO

POUND (E) T30N - R21E
GROVER (WC)



Marinette County GIS Map



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February 15, 2011

Yes	No	NA	
☐	☐	☒	ii. Wetlands: If this project will install an urban storm water treatment practice, the applicant has determined that the practice will not be located in any wetland, based upon consulting both of the following: ☐ Wisconsin Wetland Inventory at: http://dnr.wi.gov/wetlands/inventory.html ☐ Wetland Indicator Toolkit at: http://dnr.wi.gov/wetlands/locating.html
☐	☐	☒	c. If this is a proposed urban project to be funded under ch. NR 155, Wis. Adm. Code, the proposed project area is an urban area as defined by s. NR 155.12(31), Wis. Adm. Code...
☐	☐	☒	d. If this is a proposed urban project which requires that the applicant have control of the property, the applicant currently owns the property or has control of the property through an easement or construction/maintenance agreement.
☐	☐	☒	e. If this application proposes excavation in an urban area, or the purchase of land or an easement, the applicant has completed and attached the Environmental Hazards Assessment form (1800-001), available at: http://dnr.wi.gov/org/caer/cfa/Grants/Forms/1800001_fillPrint.pdf Also, complete the following:
			i. If this is a project which includes excavation or the purchase of land or an easement, consult the Bureau of Remediation and Redevelopment (R&R) Site Map (at:: **Error! Bookmark not defined.** and answer the following questions using a map scale of 1:8529 or larger:
☐	☐		1. There is one or more open (ongoing cleanup) R&R sites on the same property where the excavation is planned.
☐	☐		2. There is one or more closed (completed cleanup) R&R sites on the same property where the excavation is planned.
☐	☐		3. There is one or more open (ongoing cleanup) R&R sites on an adjacent property.
☐	☐		4. There is one or more closed (completed cleanup) R&R sites on an adjacent property.
☐	☐	☒	f. If this is a proposed project for the University Board of Regents, the project meets the criteria under s. 281.66 (6), Wis. Stats.
☐	☐	☒	g. If this is a proposed urban project, then one of the following is true: 1) local governmental unit has jurisdiction over the project area; or 2) the municipal storm water discharge is covered by a municipal storm water permit and the appropriate intergovernmental agreement is in place to install, operate and maintain the BMP.
☒	☐		h. Installation of the proposed BMPs will be completed within the grant period. If an extension of the grant period is needed, include a revised project timeline using the table from Part I., Question 1.A .of the grant application. #2
☒	☐		i. Staff or contractual services, in addition to those funded by this grant, will be provided as needed.
☒	☐		j. Staff and/or contractors have adequate training, knowledge, and experience to implement the proposed project.
☒	☐		k. Best management practices constructed under this grant are consistent with performance standards under ch. NR 151, Wis. Adm. Code.
☐	☒		l. The substitution will not increase the amount of the grant request.
☒	☐		m. The applicant is requesting the addition of one or best management practices (BMPs) that are not on the current grant.
☒	☐		n. The BMP you are requesting in this proposed substitution is a cost-effective means of controlling the pollutant source that is targeted to be controlled. Attach a revised cost-effectiveness assessment using Part I., Question 1.C. from the grant application. #3
☒	☐	☐	o. If this application is for livestock operation controls (*e.g.*, barnyard runoff or manure storage), the applicant has attached the Animal Unit Calculation worksheet, available at: http://dnr.wi.gov/runoff/pdf/ag/cafo/form340025A.doc . #4
☐	☐	☒	p. If this proposed substitution will result in a change in the project evaluation strategy, identify which of the following components the revised strategy will include: *(check all that apply)*
			☐ i. Modeling or other changes in pollution potential - *specify the method (required)*
			Method:
			☐ ii. Monitoring *(Requires a pre-approved monitoring plan that must be attached.)*
Yes	No	NA	

☒	☐	☐	q. If this is an agricultural project, the landowners who are essential to successful implementation are involved in and committed to the project, or the Department or grantee has agreed in writing to issue a regulatory notice as needed.
☐	☐	☒	r. If this is an urban project, attach documentation that the local share is approved and available.
☒	☐		s. The extent of pollutant control for the revised project is comparable to the extent of pollutant control in the original application. If "No," explain:

Applicant Certification:

I certify that the above information is true and correct.

Signature of Responsible Municipal Representative	Date
[signature]	3/1/11

Name and Title of Responsible Municipal Representative *(please print legibly or type)*

Name: Gregory G. Cleereman

Title: Marinette County Conservationist

For DNR Use Only

Regional Office Reviewer Signature: Casey L. Jones

Name (print)	Date
Casey L. Jones	3-2-11

Recommendation (check one): ☒ Approve ☐ Disapprove

Rationale: Same watershed – see notes on changed BMPs.

Transmittal

From Regional Office to Runoff Management Section ☐	Date Sent:
From Runoff Management Section to Community Financial Assistance Section ☐	Date Sent: