25 PASES TOTAL

State of Wisconsin Runoff Management Section-WT/3 Department of Natural Resources 101 South Webster Street Madison, WI 53703

PO Box 7921 or Madison WI 53707-7921

Targeted Runoff Management (TRM) Grant Program Small-Scale Agricultural Application

Form 8700-300 (R 1/13)

Page 1 of 11

Notice: This application form template was created by the Wisconsin Department of Natural Resources. Application is hereby made to the Wisconsin Department of Natural Resources, Bureau of Watershed Management, for grant assistance consistent with s. 281.65, Wis. Stats., and Chapters NR 153 and NR 154, Wis. Adm. Code. Collection of this information is authorized under the authority of s. 281.65, Wis. Stats. Personal information collected will be used for administrative purposed and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31 - 19.39, Wis. Stats.]. *Unless otherwise noted, all citations refer to Wisconsin Administrative Code*.

Please read the <u>instructions</u> prior to completion of this form. Complete all sections as applicable.

Refer to the instructions for attachments					
Section 1985		Applicant	Information		
Calendar Year of Grant Start 2014					
Project Name					
Jerome, Hwy EE					
Governmental Unit Applying (name and type	oe) (exa	mple: Dane Cou	inty Land and Water Resources Department)	I	
Columbia County Land & Water Cons	ervatio	n Department			
Governmental Unit Web Site Address					
http://www.co.columbia.wi.us/Columb		*			
Name of Responsible Governmental Repre	esentati	ve (First Last)	Name of Governmental Contact Person (Fi	rst Last)	(if different)
Kurt Calkins					
Title			Title		
Director					
Area Code + Phone Number		·····	Area Code + Phone Number		
(608) 742-9670					
Area Code + Fax Number			Area Code + Fax Number		
(608) 742-9840					
E-Mail Address			E-Mail Address		
Kurt.Calkins@co.columbia.wi.us					
Mailing Address - Street or Route			Mailing Address - Street or Route		
P.O. Box 485	,			,	
City	State		City	State	ZIP Code
Portage	WI	53901		WI	
and the second second second second			et Information		
Check all that apply.	_		n-TMDL (EPA's s. 319 or NR151) Priorities		
equivalent to a TMDL as approve	d by the	DNR.	lutant-specific goals of an EPA-approved TM		
Check this box if the project reduction covered by a plan that meets EPA (Priority Watershed (PWS) plans	√s Nine	Key Elements for	a waterbody is listed as impaired (303(d) list) or watershed plans to control nonpoint source C.)	and the pollution	e area is on.
NR151 Check this box if the project is desented in NR 151, Subchapte	signed to er II.	o achieve attaini	ment of agricultural performance standards a	nd proh	ibitions
	will con	trol, and the pag	e of the TMDL or PWS report this project im ge numbers in the report where the water bo		

TRM Grant Project Name: Jerome, Hwy EE

	ocionic, itwy DD
Form 8700-300 (R 1/13)	Page 3 of 11

H. Best Management Practices (BMPs) for which DNR TRM funding is requested.

Check all BMPs for which DNR funding is requested and insert the Performance Standard and Prohibition codes the BMP addresses. See instructions Part I. H. for the table of code numbers for standards and prohibitions and the effective dates. (See Attachment D for additional BMP information)

Non-TMDL projects must be designed to achieve attainment of one or more agricultural performance standards and prohibitions.

Note: Applicants addressing a TMDL are not required to address performance standards and prohibitions to be eligible for a grant.

Structural Practice (Wis. Adm. Code)	Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses	Structural Practice (Wis. Adm. Code)	Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses
Manure Storage Systems (NR 154.04(3))	Code(s) 7,3,4,9,12,11	Riparian Buffers (NR 154.04(25))	Code(s)
Manure Storage System Closure (NR 154.04(4))	Code(s)	Roofs (NR 154.04(26))	Code(s)
Barnyard Runoff Control Systems (NR 154.04(5))	Code(s) 12	Roof Runoff Systems (NR 154.04(27))	Code(s) 12
Access Roads & Cattle Crossings (NR 154.04(6))	Code(s) 13,12,1	Sediment Basins (NR 154.04(28))	Code(s)
Animal Trails and Walkways (NR 154.04(7))	Code(s) 12,13,1	Sinkhole Treatment (NR 154.04(30)	Code(s)
Critical Area Stabilization (NR 154.04(10))	Code(s) 13,12,1	Subsurface Drains (NR 154.04(33))	Code(s)
Diversions (NR 154.04(11))	Code(s) 12,I	Terrace Systems (NR 154.04(34))	Code(s)
Field Windbreaks (NR 154.04(12))	Code(s)	Underground Outlets (NR 154.04(35))	Code(s) 12
Filter Strips (NR 154.04(13))	Code(s)	Waste Transfer Systems (NR 154.04(36))	Code(s) 9,3,4,12,11
Grade Stabilization (NR 154.04(14))	Code(s)	Wastewater Treatment Strips (NR 154.04(37))	Code(s) 12
Heavy Use Area Protection (NR 154.04(15))	Code(s) 12	Water and Sediment Control Basins (NR 154.04(38))	Code(s)
Lake Sediment Treatment (NR 154.04(16))	Code(s)	Waterway Systems (NR 154.04(39))	Code(s)
Livestock Fencing (NR 154.04(17))	Code(s)	Well Decommissioning (NR 154.04(40))	Code(s)
Livestock Watering Facilities (NR 154.04(18))	Code(s)	Wetland Development or Restoration	Code(s)
Prescribed Grazing (NR 154.04(22))	Code(s)	Streambank and Shoreline Protecti (NR 154.03(31)) (includes associate	
Relocate or Abandon Animal Feeding Ops. (NR 154.04(23))	Code(s)	Stream Crossing	Code(s)
Process Wastewater Handling (NR	154.04(19) & NRCS 629)	Rip-rapping	Code(s)
Milking Center Waste Control Systems	Code(s) 7	Shaping & Seeding	Code(s)
☐ Feed Storage Leachate	Code(s) 7	☐ Fencing	Code(s)
Other Wastewater - specify in "Other" below	Code(s)	Other Protection - e.g. bio- engineering - specify in "Other" below	Code(s)
Cropping Practices (TMDL only)		Cropping Practices (TMDL only)	
Contour Farming (NR 154.04(8))	Code(s)	Pesticide Management (NR 154.04(21)	Code(s)
Cover & Green Manure Crop (NR 154.04(9))	Code(s)	Residue Management (NR 154.04(24))	Code(s)
Nutrient Management (NR 154.04(20))	Code(s)	Strip-Cropping (NR 154.04(32))	Code(s)
Other (specify)			

Page 5 of 11 Form 8700-300 (R 1/13)

○ 11. If this is a joint application among local units of government, a draft of the Inter-Governmental Agreement is attached. (See Attachment H)

Part II. Competitive Elements

A. Project - Describe the water quality problem (or threat if ORW/ERW), the solution (BMP(s)) being proposed, how the project will improve (or protect) water quality and bring a facility into compliance with Performance Standards and Prohibitions. Applicants may include quantitative and qualitative information. Photo documentation is encouraged. If this is a TMDL project, express severity in relation to the sources identified in the TMDL report. If this is a project to achieve compliance with one or more performance standards or prohibitions, express severity in relation to the standards.

1. Pollutant, Pollution Source, Water Quality Problem & Severity

This project is located in the Lower Grand River (UF11) is part of the Upper Fox River Basin. This watershed is ranked High relative to NPS. The Fox River Upper is impacted by Phosphorous. This entire farmstead sits at the base of an intermittent drainage. As you can see on photos, cattle paddocks exist throughout this drainage area. There is constant flushing of waste and sediment from the earthen/concrete lots down stream. The is a make shift old sediment basin that is suppose to collect animal lot runoff and milkhouse waste. This basin is connected to the drainage ditch system that allows discharge to groundwater, based on soils investigations and during rain events the basin discharges across an animal lot and travels about 400 feet into a drainage ditch that outlets into the creek. Soils directly adjacent to the animal lot have seasonal high water table 1-3 feet of surface. Manure runoff, process wastewater and silo leachate runoff are all delivering excess nutrients into groundwater and surface waters. This site has tremendous P loading ranges. Our BARNY model tells us the P discharge from this 40 acre drainage area could be as high as 400lbs. Conservatively we are estimating over 200 lbs of P. We have had numerous winter stacking issues on this farm. They struggle to find suitable locations to meet 590 standard, the farm also has a high number of winter restriction fields. The construction of manure storage will allow the control of multiple sources of discharge including manure, milkhouse waste and feed storage

2. Solution to Improve Water Quality (BMP project)

This project will use the basic conservation BMP's typically used to address these types of issues. Clean water diversions need to be installed along with the proper animal crossings. Then animal lane improvements need to be completed to address erosion from cattle travel areas. Roof gutters & underground outlets may need to be installed if animal lots are not relocated. Lot runoff needs to be addressed by installing a proper sediment basin, heavy use areas and vegetative treatment strips. Also a proper manure storage structure needs to be installed to collect manure, processed wastewater and silage leachate. Critical area seeding will be completed to reduce soil erosion from the steep slopes of the abandoned pastures in drainage way.

Note: The storage volume for this project hits a target of 12 months. Upon contact and negotiations will landowner about need to bring site into compliance with NR 151, they applied for additional cost sharing thru NRCS to cover additional storage volume above 6 month period. This breakout is shown in budget table. We are asking for cost sharing via TRM to cover 6 months storage. Additional storage volume will be received via NRCS cost share. The storage volumes do not include Feed storage leachate volumes at this time, so that will eat up a portion of storage duration.

3. Extent of Pollution Control and Expected Environmental Benefits

As stated above this site will control phosphorous discharges from feedlot runoff that are loading Belle Fountain Creek via concentrated flow thru a ditch. Seasonal anaerobic soil conditions are likely adding to the soluable P loss from that site. Sediment delivery from bare soil feedlots in drainage are also adding sediment. High groundwater is a direct concern based on the 1 to 3 foot depth to groundwater in many soils. This site was very hard to predict P delivery from based on the BARNY model because it sites directly in the flow bath of a 40 Acre intermittent drainage, as you can see from photo. The tool is not designed to access this type of pre and post comparison. We saw ranges of 400lbs of P down to 200lbs annual. The implementation of these practices, will result in a tremendous reduction in P delivery by containing manure runoff, getting cattle out of drainage area and seeding down the bare soil.

The manure storage structure as stated earlier will allow the farmer to utilize the NMP he currently has and restrict manure application to locations and times of the year that are identified in the 590 standard. This will result in the control off nutrient loss and P loading that is currently happening because of winter spreading. The storage structure will also allow him to more precisely account for and manage the NPK value of this manure, a benefit not only to surface water

TRM Grant Project Name:

Jerome,	Hwv	EE
JULIOUXIU.	1 L VV Y	

		,		
Form 8	700-	300 (R 1/13)		Page 7 of 11
12. R	eque	ested State-Share Amount (Requested Grant Amount)	\$	150,000.00
13. L.	ocal-	Share Amount: [row 6, column B less row 12]	\$	257,726.00
D. Me	thoc	Used to Calculate Cost Estimates: Select the appropriate option.		
0	1.	Project costs are based on completed design and competitive bid on the project. Co above should be detailed. Provide documentation attached to this application.	nstruction compone	nts and costs
0	2.	Project costs are based on completed design with materials and labor costs based or Construction components above should be detailed. Provide documentation in this a	n similar, recently b pplication.	id projects.
•	3.	Project design is not complete; however, the proposed project and costs are based costs. Provide as much construction detail above as possible. Provide documentation	on similar and recent on for this method in	t projects and this application
0	4.	Project design is not complete and the cost estimate is based on an average or a rai as much construction detail above as possible. Provide documentation for this method	nge of projects and	costs. Provide
\circ	5.	Project and costs are less specific than choices above. Provide explanation of cost	estimates attached	to this application.

E. Cost-Effectiveness

a. Explain how this project uses cost-effective and appropriate best management practices to achieve water quality goals.
Provide supporting information and documentation for your statements (in attachments, if needed).

As with all sites we evaluate all the BMP's options looking for the lowest cost/benefit we can engineer to protect water quality. This application represents the most cost effective long term plan that will provide for lasting management of the BMP's. We will use a combination of low cost BMP's to address a number of the areas on this farm relative to poor location of bare earth lots. These lots will be abandoned and seeded down, removing the further deposition of manure in this area, which has not collection options.

Manure storage in combination with the feed storage leachate and milk house waste control is necessary to provide containment of waste from site. Landowner will be able to manage and contain manure and it will not run leave site, and producer will be able to meet needs and expectations of 590 NMP standard.

There really are no other options to deal with this site, other than the practices listed. Manure storage is a valuable tool, and really the only tool that will allow landowners to property manage manure during critical times of year and meet obligations of 590 NMP standard. This structure will be sized for 6 months storage.

b. If this project includes a manure storage facility, the state-share should be based on manure storage capacity to meet current (and insignificant growth) AU needs. In the space below, explain the facility size and the duration of storage that is proposed in this project to achieve water quality goals. Reference the NMP, AUs, manure generation, availability of spreadable acres, months of storage, etc.

This is a 155 cow dairy cow operation that may grow to a < 20% increase of up to 200 cows. Manure storage has been designed for 180 days (6 months). See attached spreadsheet documentation. The volume of manure storage exceeding 6 months and up to one year in total volume has been included in design and will be covered by additional cost sharing funding thru NRCS. The landowner went looking for additional cost share funds after LWCD approach them about needing to address runoff issues. The budget sheet shows a division of cost sharing and total cost of manure storage by 1/2. As you can see from the 590 NMP restriction maps, a good portion of the farm is included in the winter restriction area. Supporting documentation is including with the application, that shows this structure is needed based on size/duration and limited winter spreading areas. The location of this farmstead

Current mixed animal unit #s = 347 AU, Future growth 410.2 AU.

If other alternative management measures were evaluated, list them here and describe why the alternative(s) is not being recommended.

No other options have been identified at this time.

TRM Grant Project Name:

Form	8700-30	00 (R 1/13) Page 9 of 11
3.	Involv	rement of Partners - check box if applicable.
		ers, in addition to the unit of government (applicant) and landowner, have committed resources rials, equipment, staff or financial resources) towards the BMP installation, maintenance or evaluation of the project.
	If ched	cked, list the project partner(s).
		etters of support from the project partner(s) are attached.
H. W	later Q ck the c	uality Needs (check one) - The project must be consistent with at least one of the following seven watershed priorities. ne water quality category which best identifies the water quality goals which the project directly deals with:
	Note: F accepta	For border waters where a DNR approved Basin/Watershed Plan does not exist, another governmental document able to the District Nonpoint Source Coordinator may be used to identify the water quality need.
	Sur	face Water Considerations
0	1.	Clean Water Act section 303(d) List of Impaired Waters A water body (lake or stream) on the latest Clean Water Act (CWA) section 303(d) List of Impaired Waters, where the cause of the water quality impairment is nonpoint source pollution and this project will reduce the type of nonpoint source pollutants for which the water is listed. (See Attachment A)
		Name of Applicable Impaired Water:
		Name of Pollutant Causing Impairment:
0	2.	Outstanding or Exceptional Resource Waters or Other Areas of Special Natural Resource Interest Prevention of degradation due to nonpoint sources of outstanding resource waters (ORW) (per s. NR 102.10) or exceptional resource waters (ERW) (per s. NR 102.11) or other areas of special natural resource interest (ASNRI) To locate ASNRI using DNR's Surface Water Data Viewer go to http://dnrmaps.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer.deswaters . For more information about ASNRI go to http://dnr.wi.gov/topic/surfacewater/datasets/designated_waters/asnri.html
		Name of Applicable ORW/ERW or ASNRI:
	3.	
•	J.	Not Fully Supporting Uses or NPS Ranking of High or Medium A water body (lake or stream) identified in a DNR-approved Basin/Watershed Plan as not supporting designated uses due to nonpoint sources, but is not on the section 303(d) List. In newer plans, these waters are categorized as "supporting" (as opposed to "fully supporting") designated uses; in plans prior to 2010 they were labeled as "partially meeting" designated uses. Or, the project is located in watershed, lake watershed, or other area ranked high or medium on the NPS Rankings List, where the goals of the project are directly associated with the reason for the ranking on the NPS Rankings List.
\circ	4.	Surface Water Quality
	Gro	Prevention of surface water quality degradation due to nonpoint sources. undwater Considerations For assistance with this section, please consult the DNR District Drinking Water and
	Gro	undwater Considerations For assistance with this section, please consuming of the District Difficing Water and undwater Specialist at http://dnr.wi.gov/topic/drinkingwater/contact.html or the County Extension office.
0	5.	Exceeds Groundwater Enforcement Standard Groundwater within the project area where representative information indicates there are levels for NPS contaminants that exceed groundwater enforcement standards.
0	6.	Exceeds Groundwater Preventive Action Limit Groundwater within the project area where representative information indicates there are levels for NPS contaminants that exceed groundwater preventive action limits.
0	7.	Groundwater Quality The project area is within a geological area defined in s. NR 151.015(18) as susceptible to groundwater contamination. (See Attachment F)
I. Dri	nkina \	Water Bonus Points:
	No Th	ne project water quality goals identified above relate to the reduction of nonpoint source contaminants in
0	O su	ommunity or non-community public drinking water supplies. This includes any of the following: Municipal water applies governed by chs. NR 809 and 811; Other-Than-Municipal (OTM) water supplies governed by chs. 809 and 811; Non-Transient water supplies governed by chs. NR 809 and 812; Transient water supplies governed by chs. NR 809 and 812.
	1.	If "Yes" and you checked box 5, 6, or 7 above, then mark a, b or c below and move on to question J. (You will need assistance from your DNR District Grant Coordinator or Water Supply Specialist to answer.)
	_ a.	Check this box if the project is located: within the wellhead protection area of a municipal well, or within 1,200 feet of a municipal well for which a wellhead protection area is not delineated, or within 1,200 feet of an "Other-Than-Municipal (OTM)" water supply well, or within 1,200 feet of a non-transient water supply well
	O <u>b.</u>	Check this box if the project is located within 200 feet of Transient water supply well.
	O c.	Check this box if you did not select a or b.
	2.	If "Yes" and you checked box 1, 2, 3, or 4 above, then place a check mark next to the drainage area where the project is located (see below).

TRM Grant Project Name:

_	-	
Jaroma	LITTI	EE
Jerome,	II W y	Lili

		Jeronie, rrwy Er	·	
Form 8	7700-300 (R 1/13)			Page 11 of 11
\boxtimes	Found at this website (provide most direct web page URL).			
	http://www.co.columbia.wi.us/columbiacounty/portals/2/orden and the property of the columbia and the property of the propert	linance/title15.pdf		
	Attached to this application.			
	Already submitted with another application for funding.			
	Optional Additi	onal Information		
Carefu	ully review the answers to all of the questions above. Is there tt? If so, describe here	additional informati	on that will add to	the understanding of this
landov lookin	nanure storage structure cost and duration with end product we when by LWCD a discussion about what needed to be done, and for additional cost sharing thru EQIP to perhaps increase to waste and feed storage leachate. Our TRM application is est	relative to controlling the length of storage	ng NPS on site, la e time, because of	ndowner was interested in additional need to store milk
	owner has completed and submitted cost share for up to 90% effected, really makes no direct impact on total cost of TRM		with cap of \$150	,000. Budget spreadsheet has
THE STREET			*	
	Applicant (Certification		
A Res I certif	ponsible Governmental Representative must sign and date the try that, to the best of my knowledge, the information contained	ne application form d in this application	prior to submittal tand attachments	to the DNR. is correct and true.
Signat	ture of Authorized Representative		Date Signed	4/15/2012
Name	(Please Print)	Title		
	Calkins	Director		
\boxtimes	Completed Governmental Responsibility Resolution (signed	in blue ink) (see At	tachment I) is atta	ached.
	Submittal	Directions		
To be	considered for funding, provide the following for each applica-	ation submitted:		
	One copy of the completed application form [DNR Form 8 Three additional copies of the completed, signed applicat One electronic copy of the completed application form in maps on CD.	ion form;		
All app	olication materials must be postmarked by midnight April 15	of the same calend	dar year.	

Send to: State of Wisconsin Runoff Management Section-WT/3 Department of Natural Resources 101 South Webster Street Madison, WI 53703

PO Box 7921 Madison WI 53707-7921



608-742-9670

FAX: 608-742-9840 E-MAIL: land.conservation@co.columbia.wi.us

WEBSITE: www.co.columbia.wi.us

120 West Conant Street P.O. Box 485 Portage, W1 53901

TRM Grant Enabling Responsibility Resolution

WHEREAS, the Columbia County Land and Water Conservation Department is interested in applying for and obtaining a TRM grant from the Wisconsin Department of Natural Resources for the purpose of implementing measures to control agricultural nonpoint source water pollution (as described in the application and pursuant to ss.281.65 or 281.66, Wis Stats., and chs. NR 151,153 and 155, Wis. Adm. Code) and

WHEREAS, a grant award that includes a request for access to cost share funds is being requested to carry out the project and or projects and

WHEREAS, the Columbia County Land and Water Conservation Department has staff resources in place to carry out project deliverables and to secure required local match to cost share grant funds per program guidelines, and

THEREFORE BE IT RESOLVED, that the Columbia County Land and Water Conservation Committee, authorizes Kurt R. Calkins, Director of the Columbia County Land and Water Conservation Department to act on behalf of Columbia County to submit and application to the Wisconsin Department of Natural Resources for TRM grant funding consideration and complete necessary grant related activities such as:

- Signing and Submitting required contract documentation
- Submitting reimbursement claims upon completion
- Take necessary action to undertake, direct and complete the approved project

BE IT FURTHER RESOLVED that the applicant will comply with all state and federal rules and regulations relating to this project, the cost-share agreements and nonpoint source water pollution.

Adopted by Columbia County Land and Water Conservation Committee

Adopted on 1st day of April, 2013

I hereby certify that the foregoing resolution was duly adopted by, and entered into the official minutes of the Columbia County LWCC at a legal meeting on 4/1/2013.

Authorized Signature:

John Stevenson, Chair LWCC



608-742-9670 FAX: 608-742-9840

E-MAIL: land.conservation@co.columbia.wi.us WEBSITE: www.co.columbia.wi.us

> 120 West Conant Street P.O. Box 485 Portage, WI 53901

Land & Water Conservation

4/15/2013

Shawn & Jennifer Jerome N9451 County Road EE Dalton, WI 53926

Subject: Notice TRM Grant Application & NR 151 Compliance

Dear Shawn & Jennifer

I am corresponding with you regarding the application the Columbia Land and Water Conservation Department is submitting thru the 2013/2014 DNR Targeted Runoff Management Grant Program. This is a statewide competitive program that is targeted and helping landowners come into compliance with the Ag Performance Standards as outlined in NR 151. These conditions are also found in the Columbia County Code of Ordinances Title 15 Animal Waste Management. As a condition of these grant applications, and a way to maximize scoring for County project applications we are required to send you a notice that if we are successful with this grant application, we will use those funds to bring you into compliance with standards that apply to your project area. This letter will serve as that notice.

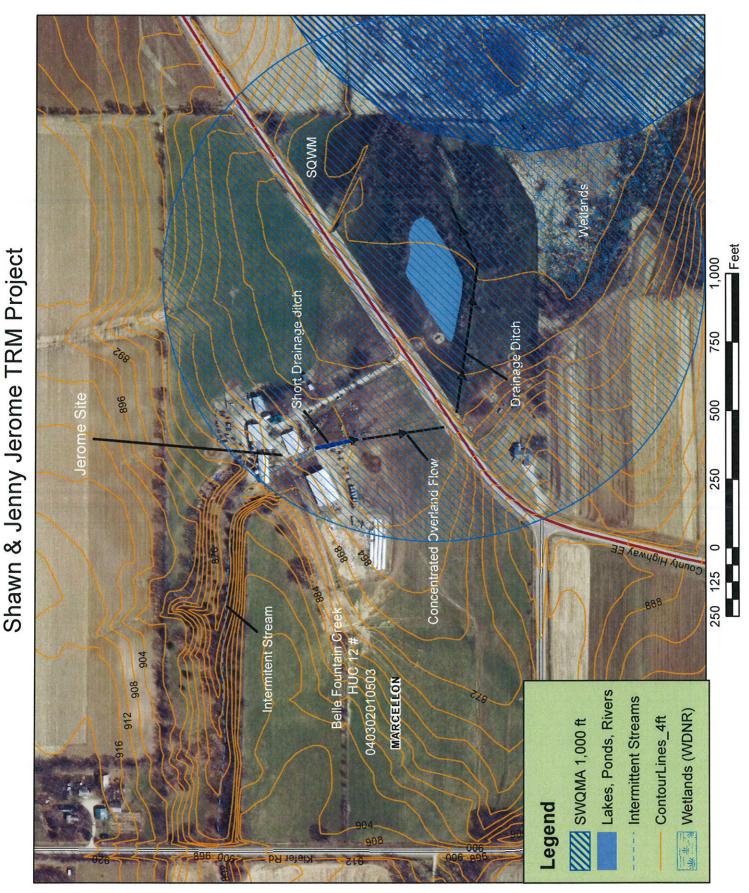
This grant application seeks funds to help you gain compliance with the following provision of NR 151:

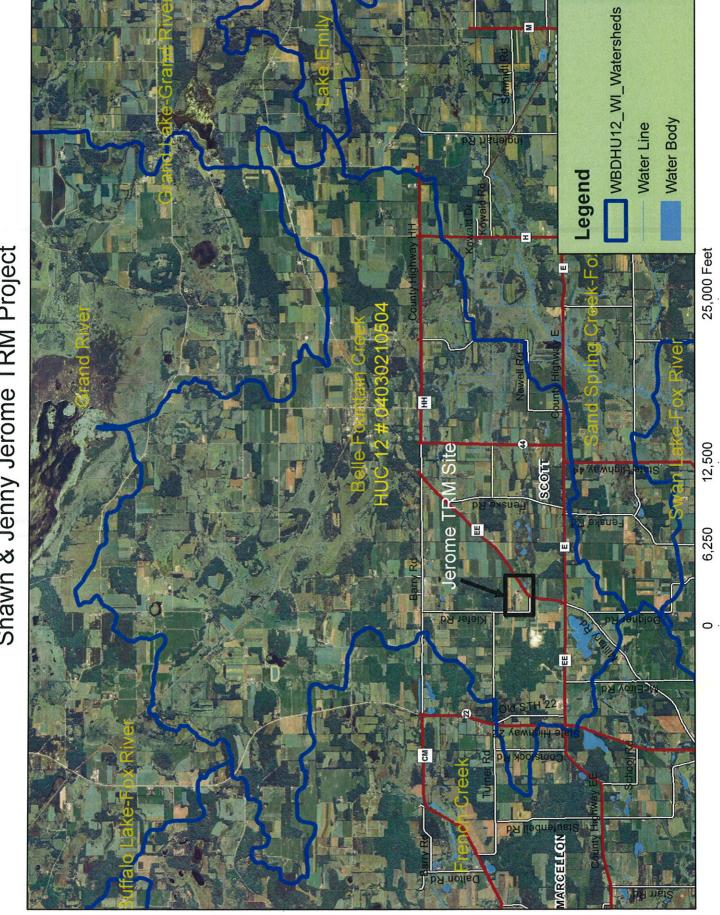
- 1) Manure Storage Facilities (New NR 151.05(2)
- 2) Clean Water Diversions (NR 151.06)
- 3) Nutrient Management (NR 151.07)
- 4) Direct Discharge From Feedlot (NR 151.08(4)
- 5) Process Wastewater Handling (NR 154.04(23)

Todd Rietmann, our technician that you have been working with, will keep you updated and let you know if we are successful securing the funds.

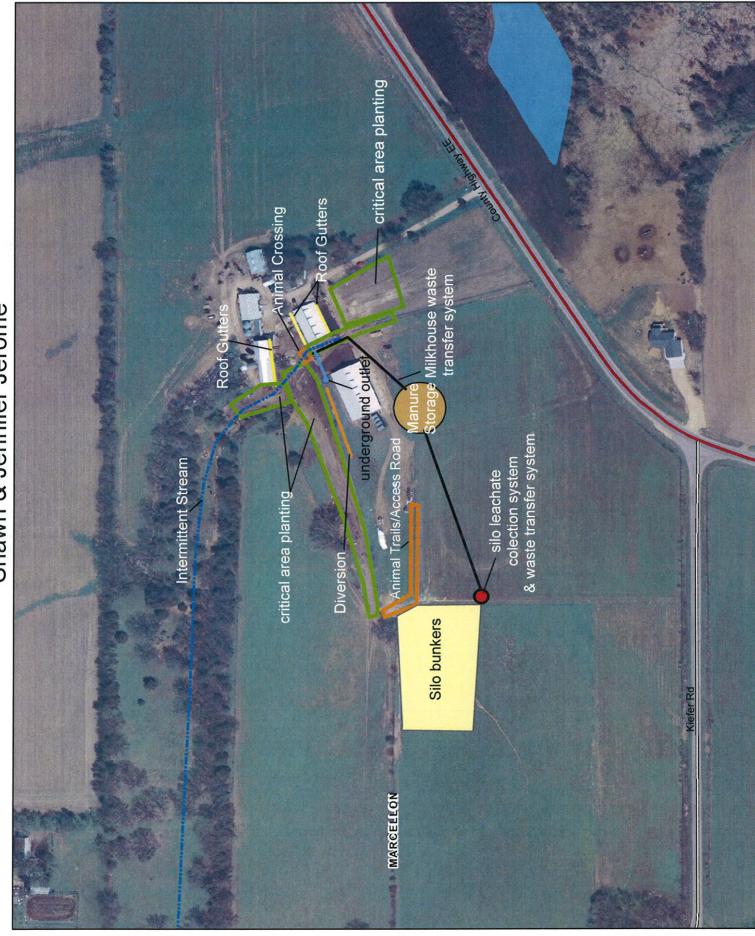
If you have any questions please feel free to give us a call.

Kurt R. Calkins Director of LWCD Columbia County





Shawn & Jenny Jerome TRM Project



Shawn & Jennifer Jerome

Jorame Jenny Shawn

Wisconsin 590 Nutrient Management Application Restrictions

4/12/2013 Map Generated On:



County: Columbia

Legend*

Section

Intermittent Streams SWQMA 1,000 Feet Perennial Streams SWQMA 300 Feet

No Winter App. Slope > 12%

Winter Restriction if Slope > 9% Township-Range

*Markup is not included in the Legend

SWQMAs - buffers around WI DNR 24K Hydro (based on 1/9/2012 Hydro) Restrictions - Based on USDA NRCS Surface Water - WI DNR 24K Hydro Fransportation - WI DOT (acquired 2010 NAIP Imagery - USDA FS SSURGO (updated 7/1/2012) (acquired 1/9/2012)

Notes Section Number(s):

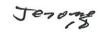
Soil Map Units, Fall Restrictions, Winter Fall N Restriction 5/22/2012)

0.1 Miles

1: 4,257

Scale

This map has been developed utilizing the nutrient application restrictions from the September 2005 Wisconsin NRCS 590 Nutrient Management Practice Standard. This map is an initial inventory of nutrient spreading risks which must be field verified to identify other risk areas such as concentrated flow channels, wetlands, and conduits to groundwater. See the "Considerations" section of the 590 practice standard for additional planning suggestions. http://efotg.nrcs.usda.gov/references/public/WI/590.pdf





Civil Town USDA Wetspots

Civil Towns

Legend

Map Created on Mar 26, 2013

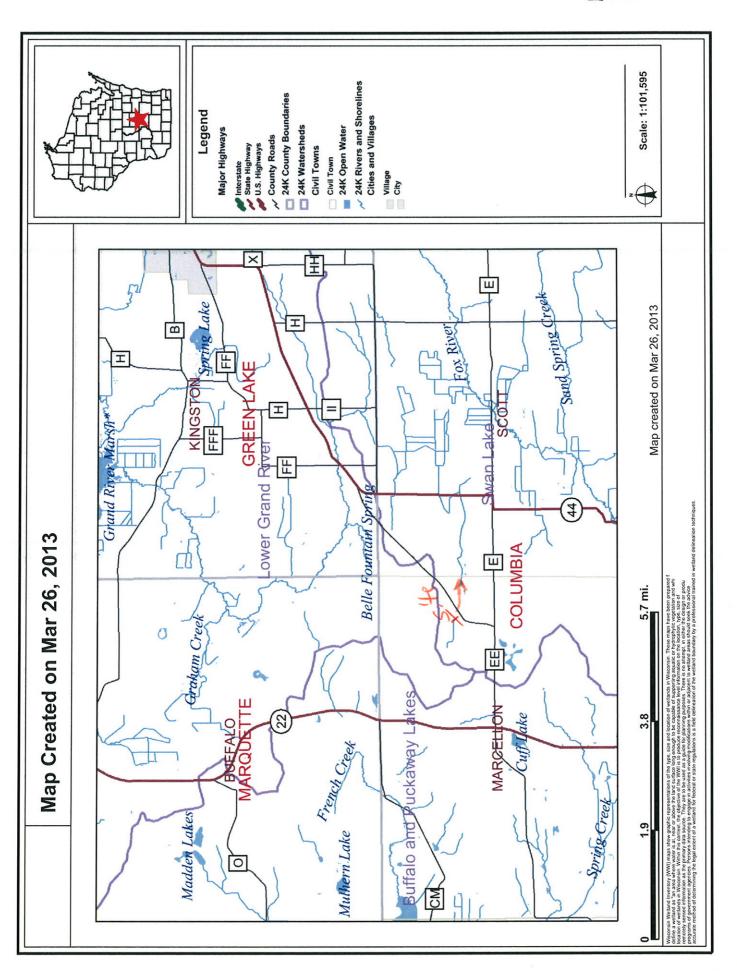
Major Highways

Filled Wetland Too Small to Delineate 24K Rivers and Shorelines Wetland Indicator Soils Upland
Wetland
Filled or Drained Wetland Wetland Too Small to Delin Filled or Drained Wetland **DNR Wetland Points** / Intermittent
// Fluctuating
// Perennial
Cities and Villages **DNR Wetland Areas** Filled Excavated Pond 24K Open Water **Excavated Pond** Dammed Pond

Map created on Mar 26, 2013

Scale: 1:17,583

5250 ft.



<u>i</u>
2
Ϋ́
syste
S
2
it systen
<u>ම</u>
anageme
<u>e</u>
ြွ
Ĕ
ਲ
Σ
te Management
#
35
Naste
>
TRM Wa
$\overline{\mathbf{x}}$
(TRN
_
a
Ξ
5
Æ
Ō

Ξ
٣
~×
ω) -
nawn & Jennifer Jerome
Shawı
<u>a</u>
六
~

	Shawn & Jennifer Jerome (TRM Waste Management system)	me (TF	RM Wa	ste Manaç	gement syst	tem)	Hardship
						Cost Share	Cost Share
NR 154 practice #	ITEM	UNIT	JANTITY	QUANTITY UNIT COST	TOTAL COST	%02	%06
R16 Manure Storage System	SITE PREPERATION Striping	JOB	_	\$3,000.00	\$3,000.00	\$2,100.00	\$2,700.00
R16 Manure Storage System	Manure transfer pipe	LIN. FT	100	\$50.00	\$5,000.00	\$3,500.00	\$4,500.00
R16 Manure Storage System	12' deep concrete manure tank	Structure	₩-	\$300,000.00	\$300,000.00	\$210,000.00	\$270,000.00
R33 Waste Transfer System	Manure transfer pipe	Num	۴	\$18,000.00	\$18,000.00	\$12,600.00	\$16,200.00
R16 Manure Storage System	FILL SAND/GRAVEL	YD^3	009	\$12.00	\$7,200.00	\$5,040.00	\$6,480.00
R17 Milking Center waste control systems Leachate Tank	s Leachate Tank	Num	4	\$2,500.00	\$2,500.00	\$1,750.00	\$2,250.00
R17 Milking Center waste control systems Leachate pump	s Leachate pump	Num	ζ	\$5,000.00	\$5,000.00	\$3,500.00	\$4,500.00
R17 Milking Center waste control systems Leachate pipe	s Leachate pipe	LIN. FT	200	\$4.50	\$2,250.00	\$1,575.00	\$2,025.00
R17 Milking Center waste control systems settling area & floor for leachate	s settling area & floor for leachate	SQFT	0006	\$4.50	\$40,500.00	\$28,350.00	\$36,450.00
R17 Milking Center waste control systems Milkhouse Waste Manhole	s Milkhouse Waste Manhole	Num	1700	\$3.00	\$5,100.00	\$3,570.00	\$4,590.00
R16 Manure Storage System	FILL ON SITE for ramp	YD^3	200	\$2.00	\$1,000.00	\$700.00	\$900.00
R16 Manure Storage System	TOPSOIL STRIP AND RESPREAD	YD^3	200	\$2.00	\$1,000.00	\$700.00	\$900.00
R6 Critical Area Stabilization	Seeding (Critical Area Stabilization)	Acre	က	\$1,000.00	\$3,000.00	\$2,100.00	\$2,700.00
R13 Livestock fencing systems	Fence	LIN. FT	200	\$2.00	\$1,000.00	\$700.00	\$900.00
R17 Milking Center waste control systems Milkhouse Waste Manhole pump	s Milkhouse Waste Manhole pump	Num		\$2,500.00	\$2,500.00	\$1,750.00	\$2,250.00
R32 Underground Outlet	Underground outlet	LIN. FT	100	\$20.00	\$2,000.00	\$1,400.00	\$1,800.00
R24 Roof Runoff System	Roof gutters	LIN FT	84	\$14.00	\$1,176.00	\$823.20	\$1,058.40
R1 Access Road and Cattle Crossing	Access Road	LIN. FI	100	\$55.00	\$5,500.00	\$3,850.00	\$4,950.00
R33 Waste Transfer System	Milkhouse Waste Manhole transfer pipe	LIN. FT	200	\$10.00	\$2,000.00	1,400.00	1,800.00
	total				\$407,726.00	285,408.20	366,953.40
R18 Nutrient Management	Nutrient management Plan	Acres	200	\$18.00	\$3,600.00 TOTAL COST	Flat rate State 70%	Flat Rate State 90%
	TOTAL COST ESTIMATE BONDING DOLLARS	ESTIMATE	BONDIA		\$407,726.00	\$285,408.20	\$366,953.40
	TOTAL COST ESTIMATE NON-BONDING DOLLARS	MATE NON	-BONDIN	IG DOLLARS	\$3,600.00	\$3,600.00	\$3,600.00
						\$570,816.40	\$733,906.80

213,000 **\$150,000.00** \$363,000.00 Estimated TRM cost share Estimated total cost share Estimated NRCS cost share

State of Wisconsin Department of Natural Resources PO Box 7185, Madison, WI 53707-7185

Animal Unit Calculation Worksheet Form 3400-025A (R 3/2012)

dnr.wi.gov

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)

<u> </u>	te Information (Section II).	Animal U	nit Calcula	ition Num	hers			
/	lame of Site: Jerom t				JC, 3			
4		I.	Mixed Animal (Jnits	II. Non-	II. Non-mixed Animal Units		
	Animal Type	b. Equiv. factor	c. Current Number	d, No. of AUs	e. Equiv. factor	f. Current Number	g. No. of Aus	
Εx	ample - 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			
‡e	Milking & Dry Cows	1.40 ×	155	716	1,43 x	155	= 999	
y Cattle	Heifers (800 lbs to 1200 lbs)	1,10 ×	60	= 66		. ~~	ر ا	
Dairy	Heifers (400 lbs to 800 lbs)	0.60 x	97	= 58,0	1.00 x	15/	= 15/	
Beef	Steers or Cows (400 lbs to market)	1.00 ×		=				
ă	Bulls (each)	1.40 ×		=	1.00 ×		=	
	Veal Calves	0,50 x		=	1,00 ×		=	
	Pigs (up to 55 lbs)	0.10 x		=	0.10 ×		=	
Swine	Pigs (55 lbs to market)	0.40 x		=				
Š	Sows (each)	0.40 x		=				
	Boars (each)	0.50 x		=	0.40 x		=	
ens	Layers (each) -non-liquid manure system Broilers/Pullets (each) -non-liquid manure	0,01 ×		=	0.0123 ×		=	
Chickens	system	0.005 x		=	0.008 ×		=	
)	Per Bird -liquid manure system	0.033 ×		=	0.0333 ×		=	
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=	
ద్	Ducks (each) -non-liquid manure system	0.01 ×		**	0.0333 ×		=	
	Turkeys (each)	0.018 ×		=	0,018 x		=	
	Sheep (each)	0.1 ×		=	0.1 x		=	
	Horses (each)	2 ×	3	= (p	2 x	3	= 6	
To	otal Animal Units:		ni Mixed Animal U (add all rows abo	ve)	Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals)			

	(Check here if there are no	proposed increases	in animal numbers	at this site w	vithin the next five ye	ars
--	---	----------------------------	--------------------	-------------------	----------------	-------------------------	-----

State of Wisconsin Department of Natural Resources PO Box 7185, Madison, WI 53707-7185 dnr.wi.gov

Animal Unit Calculation Worksheet Form 3400-025A (R 3/2012)

The Projected 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).

Projected Animal Unit Calculation Numbers

	ime of Site: Jerome		ŧ		l		
Animal Type			Mixed Animal U		II. Non-	mixed Animal U	nits
	,,,	b. Equiv. factor	c. Projected Number	d. No. of AUs	e. Equiv. factor	f. Projected Number	g. No. of Aus
Exa	mple - 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 c	column comply with 40) CFR s. 122.23
#le	Milking & Dry Cows	1.40 x	200	<u> </u>	1.43 x	200	= 286
y Cattle	Heifers (800 lbs to 1200 lbs)	1,10 x	60	= 66			1
Dairy	Heifers (400 lbs to 800 lbs)	0.60 x	97	=50,2	1.00 x	157	= 12 /
Beef	Steers or Cows (400 lbs to market)	1.00 ×		=			
ä	Bulls (each)	1,40 ×		=	1,00 x		
	Veal Calves	0,50 x		=	1,00 ×		Ξ
	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		Ξ
Swine	Pigs (55 lbs to market)	0.40 ×		=			
Š	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
S	Layers (each) -non-liquid manure system	0.01 ×		2	0.0123 x		=
يكد	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 ×		Ξ	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 ×		=	0.2 x		Ξ
DO	Ducks (each) -non-liquid manure system	0,01 ×		2	0.0333 x		=
	Turkeys (each)	0.018 ×		Ξ	0,018 x		=
	Sheep (each)	0.1 ×		2.5	0.1 x		E
	Horses (each)	2 x	3	= 6	= 6 2×		Ξ
Γota	al Animal Units:		al Mixed Animal Un (add all rows abov		Total Non-Mixed Animal Units (Enter the single highest number froi any row above; DO NOT add the totals		from $\partial \mathcal{B} \phi$

Date of Proposed Expansion (MM/YY): 10/2013

2 20%

WASTE STORAGE FACILITY DESIGN - 313 STANDA

CLIENT:	Jerome			COUNTY:	COLUMBIA	4		DATE:	4/12/13
DSN BY:	SN BY:TM CHK BY:						DATE:		
COMMENT	S:								
ANIM	AL TYPE>	1	(1 = DAIR)	Y, $2 = BEEF$,	3=VEAL	., 4=SWIN	E(finishing)	, 5 = SWINE	(farrowing)
				6=POUL	TRY, O = C	THER)			
For Dairy:	Rolling He	rd Average	19,500	lbs/cow/yr		Is it a stand	chion barn?	N	(Y or N)
MANURE .	AND WAST	EWATER							
LIVES	ГОСК	AVG. WT.	DAILY OU	TPUT, CU F	T	DAYS OF	VOLUME	ANIMAL	
KIND	NUMBER	PER HEAD	MANURE	BEDDING	TOTAL	STORAGE	REQUIRED	UNITS	
Cows	200	1,400	2.22	0.3	504.4	365	184,106	280	
Heifers		1,000		0.3					
Heifers		750	***************************************	0.3					
Calves		325		0.3	 				
,	WASTE	WATER:	2000	GAL/DAY	267.4	CU FT/DAY	,	280	TOT. A.U.
			TAL DAILY	VOLUME:	771.8	CU FT / D/	4 Υ		
								2,107,113	GALLONS
					Total Mar	nure and Wa	astewater	281,700	
			Expected	d % solids in					8
1				. , , , , , , , , , , , , , , , , , , ,					
RUNOFF V	OLUME	······································	······································			·			
l	MONTHLY	RUNOFF							
	RCN		21.8	INI X	4,000	Ft2 Draina	ge Area=	7,267	CUET
	11011		12	'L'	4,000	_	olude storag		
			12			וויז זטוו טען	nade storag	je area,	
25 Voor 2	24-HOUR RI	INOSE							
20-16ai, 2	RCN		4 10	IN!	4,000	Ft2 Draina	~~ ^×~~	1,374	CHET
	ncn	95	4.12 12	IN. X	4,000		-		
			12			ווו זטוו טען	olude storag	2,171,746	CALLONG
		T-4-1 (84)		0			' V D #		
		Total for IVI	anure, iviliki	ng Center, R	iunott voiu	ime, and 25	Y RUNOTT	290,340	CUFI
					of a chocking topic and the	0-		100 c	
PRECIPITA	<u> </u>	Does the		ect precipita				(1 for yes, 2	
				ning Month	for Precip.	Collection	11	(1 = Jan, 2 =	Feb, etc.)
Precipit		evaporatio							
	Averag	e Precipitati	on on Stora	ge Surface			INCH	2.6	
	Average	Evaporation	from Stora	ge Surface	-	27.4	INCH	2.3	FT
	Ne	t Precipitati	on on Stora	ge Surface		3.7	INCH	0.3	FT
	25-Yr	, 24-Hr Pred	ip on Stora	ge Surface		4.7	INCH	0,4	FT
The second secon				<u> </u>	***************************************	a matay kagi sa ata-atay kanta sa italah satarah			
REMAININ	G WASTE	(If no sum	n, use thes	e minimums	: ponds -2'	'. tanks-1')	1.0	FT	:
		(.,	• ,,,,,,,,,,		,		1	
EXTRA DE	PTH FOR S	AFETY			/1-ft	Minimum)	1.0	FT	
LXIIIA DE	1 111 1 011 0	<u> ALLII</u>			/ 1 - 1 6 -	TVIII III II CITTI	1.0	ļ ¹ •	
CETTIENSE	:NIT			15% of	Embankme	ant Haight)	0.0	l cr	
SETTLEME	ANI.			(0.70-01	LITIDALIKITI	ent Height)	0.0	, ' '	
	DTU "	7an+b += b = 1	lal Manares	Manta	D44	ad Droots \		O E C	
M.O.L. DE	<u>rın</u> ((Jepin to noi	a ivianure, '	Wastewater,	, пипотт, а	na Precip.)		9.56	FT
			_		£ 41=		40 A		
			<u>T</u>	otal Depth o	T the Stora	ige racility	12.0	FI	

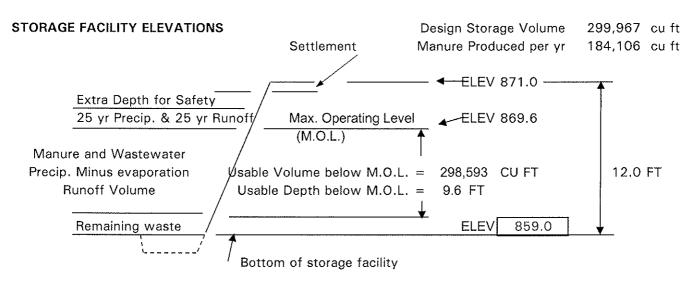
Jemes y



BUFFER DESIGN USING BARNY

OWNER: Shawn & Jenny Jerome	DE	SIGNER: TAR	DATE: 4/12/20)13
	Input	CHK BY:	DATE: 1 Madison	
	iriput	Output	2 Appleton	
Closest City of similar climate:	1		3 Wausau	
	·		4 Eau Claire	
Paved lot area:	8,000	sq ft		
Earth lot area:	30,000	sq ft		
Animal Lot size:		38,000 sq ft		
Is there a DESIGNED settling basin	2	Yes= 1	; No= 2	
Animals on lot: 60 n	umber	25 number	r	
Type of animal: 1		1	(Dairy = 1; Beef=2)	
Ave. Animal Weight: 1,200 lb	os	600 lbs		
Lot Use: 1			1= Heavy; 2= Medium; 3= Light	•
			s due to Area is in Intermintent Stream Habs sqft	
		west Sacre	5 due to Aven the	-be
TRIBUTARY AREAS		Lange	Intermedia structudos	, -,-
Tributary area:	217,800	sq ft	sq ft	
Runoff Curve Number:	75			
Roof area:	6,000 :	sa ft		
	-,		204.5 lbs P per year	
			at D.S. Lot edge:	
Maximum permissible P Output	15 II	os Your ch	noice based on impacted	
that can be released	10 11		rces- Max is 15	
and dair be released		10000	mood max to to	
			"c" Value Table	
BUFFERS - Size by trial and error			I	.59
t marinata.		t (One Nets Delev	· · · · · · · · · · · · · · · · · · ·	.59
Length:	1	ft (See Note Belov	· •	.29
First Buffer Slope:		. .	,	.44
"c" :				.29
1 (1	,	-,	.	.22
Length:	1	ft	l l	.15
Second Buffer Slope:			· ·	.29
"c":			_	.29
5/11 > 6/11 > 6/11	0045	:	·	.29
P (lbs) after the buffers:	204.5	lbs P per yea	Non-contoured row crop 0	.05
NO GOOD - Too much F	released			
BUFFER SIZING		42,000 sq ft	Min. Acceptable Buffer Area	
Chosen Buffer Width	t	eet	min / tooptable ballet / tied	
Onoson Duner Width	11	50 L		
		O foot	Min Ofr Lan Dacad on DADAIN	/
		0 feet	Min. Bfr. Len. Based on BARN\ Min. Bfr. Len. Based on Area	(
Chosen Buffer Length		0 feet #DIV/0! feet eet #DIV/	Min. Bfr. Len. Based on Area	(

REMAINING WASTI	(If no sump, use these minimums: ponds -2', tanks-1') 1.0 FT
EXTRA DEPTH FOR	SAFETY (1-ft. Minimum) 1.0 FT
SETTLEMENT	(5% of Embankment Height) 0.0 FT
M.O.L. DEPTH	(Depth to hold Manure, Wastewater, Runoff, and Precip.) 9.56 FT
	Total Depth of the Storage Facility 12.0 FT



STORAGE SIZING IS STORAGE RECTANGULAR OR ROUND?	2	(1 =	Rectangular;	2= Round
SIDE SLOPES OF STORAGE	0.0	:1 (Use	"0" for walls	3)
Tantajajaja perindakan katalan katalaja baja katalan katalan katalan katalan katalan katalan katalan katalan k Katalan katalan katala	te protest projections. Name to the first state of		de Caracilla de Car La composição de Caracilla de Ca	
CHOOSE A BOTTOM WIDTH	200	FT		
BOTTOM LENGTH I	REQUIRED		N.A.	FT
ROUND STORAGE BOTTOM DIAMETER I	REQUIRED		199	FT

STORAGE SIZING	SUMMARY				
RECTANGULAR	BOTTOM SIDE 1:	200	FT		
	BOTTOM SIDE 2:	N.A.	FT		
	M.O.L. VOLUME PROVIDED:	0	CU FT	0	GALLONS
	DAYS STORAGE PROVIDED:	0	DAYS		
TOTAL VOLUM	E FROM BOTTOM TO SETTLED TOP:	0	CU FT	0	GALLONS
ROUND	CHOOSE BOTTOM:	199	FT DIAM		
	M.O.L. VOLUME PROVIDED:	298,593	CU FT	2,233,475	GALLONS
	DAYS STORAGE PROVIDED:	365	DAYS		
TOTAL VOLUM	E FROM BOTTOM TO SETTLED TOP:	374,634	CU FT	2,802,260	GALLONS