

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 1/15)

Page 1 of 13

**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 purposes 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 instructions prior to completion of this form. Complete all sections as applicable.  
Refer to the instructions for attachments.

### Applicant Information

Calendar Year of Grant Start      2016

Project Name

Schroth Dairy Farm

Governmental Unit Applying (name and type) (e. g. Dane County Land and Water Resources Department)

Outagamie County Land Conservation Department

Governmental Unit Web Site Address

<http://www.outagamie.org/index.aspx?page=64>

Name of Responsible Government Official - Authorized Signatory  
(First Last)

Gregory J. Baneck

Title

County Conservationist

Area Code + Phone Number

(920) 832-5073

E-Mail Address

[greg.baneck@outagamie.org](mailto:greg.baneck@outagamie.org)

Mailing Address - Street or PO Box

3365 West Brewster Street

City

Appleton

State

WI

ZIP Code

54914

Name of Government Official - Grant Contact Person (First Last)(if different)

Title

Area Code + Phone Number

E-Mail Address

Mailing Address - Street or PO Box

City

State

WI

ZIP Code

### Part I. Project Information

#### A. Project Category: Total Maximum Daily Load (TMDL) or Non-TMDL

- ☐ 1. **TMDL Project:** The project must meet all of the following criteria:
- The project is in a geographical area covered by an EPA-approved TMDL.
  - The project addresses the most critical nonpoint pollution sources of the agricultural nonpoint pollutants identified in the TMDL document.

Provide the title of the TMDL report that this project implements. (TMDL link: <http://dnr.wi.gov/topic/tmdls/tmdlreports.html>).

Provide a link to the report, if available.

Provide the document page number(s) that identify the pollutants and sources being addressed by this project.

- ☒ 2. **Non-TMDL Project:** The project must be designed to achieve attainment of the NR 151 agricultural performance standards and prohibitions.

**B. Location of Project**

See Attachment A and Surface Water Data Viewer (SWDV) at <http://dnrm.wi.gov/SL/?Viewer=SWDV> for assistance in completing this question.

County Outagamie				State Senate District number: 2				State Assembly District number: 5	
Minor Civil Division Name (city, village, town, etc. - ex. Holland, Town of)	Township (N)	Range	E or W	Section	Quarter	Quarter- Quarter	Latitude (North, 4 to 7 decimal places)	Longitude (West, 4 to 7 decimal places)	
Town of Ellington	22 N	16	E	16	NW	SE	44.3786	-88.5622	
	N								
	N								
	N								

Method for Determining Latitude & Longitude (check one)

- ☐ GPS    ☒ DNR Surface Water Data Viewer  
☐ Other (specify): \_\_\_\_\_

**C. Watershed and Waterbody**

See Attachment A and SWDV at <http://dnrm.wi.gov/SL/?Viewer=SWDV> for assistance in completing this question.

Watershed Name	DNR Watershed Code	Primary Waterbody Name	Nearest Waterbody Name
Wolf River New London and Bear C	WR 12	Bear Creek	Bear Creek
12-digit Hydrologic Unit Code (HUC): 040302021402			

**D. Endangered and Threatened Resources, Historic Properties, and Wetlands**

Check the appropriate box for each question based on what the **governmental unit knows** to occur where the project disturbs land.

- ☐ 1. There are endangered or threatened resources, as identified in s. 29.604, Wis. Stats., and NR 27 in the project area. (Refer to: [http://dnr.wi.gov/topic/erreview/publicportal.html?utm\\_source=featureimage&utm\\_medium=homepage&utm\\_campaign=20140929\\_nhiportal](http://dnr.wi.gov/topic/erreview/publicportal.html?utm_source=featureimage&utm_medium=homepage&utm_campaign=20140929_nhiportal) for assistance.)
- ☐ 2. There are archaeological sites, historical structures, burial sites, or other historic places identified in s. 44.45, Wis. Stats., in the project area.
- ☐ 3. There are wetlands in the project area that are governed by water quality standard provisions of NR 103. (Answer with the SWDV map layer **Wetland Indicators** at <http://dnrm.wi.gov/SL/Viewer.html?Viewer=SWDV&runWorkflow=Wetland>)

**E. Maps and Photographs**

Yes

- ☒ An 8.5" x 11" map from USGS or the DNR data/map viewers, showing the project area, is attached.  
☒ Aerial photo maps and project area photos are also included.

**F. Filters** Note: The applicant **must** be able to check "Yes" to questions 1 through 9 and, if applicable "Yes" to questions 10 and 11 below to be eligible for a grant.

Yes

- ☒ 1. The project will control agricultural runoff.
- ☒ 2. The applicant certifies that funding from this grant will **only** be used for BMPs to bring **existing** cropland, **existing** livestock facilities and non-significant expansions of livestock operations into compliance with NR 151 performance standards or prohibitions. (See definitions for existing (existing prior to effective dates of standards and prohibitions) and significant expansion in the instructions at Part I. F & G and Part II. H, respectively).
- ☒ 3. The applicant certifies that funding from this grant will **not** be used for best management practices to bring a livestock facility or cropland back into compliance with a performance standard or prohibition in NR 151 when such compliance had previously been achieved after the **effective date** of the standard or prohibition. (See effective dates at instructions Part I. G.)

**Small-Scale Ag. TRM Grant Application**

Form 8700-300 (R 1/15)

Page 3 of 13

TRM Grant Project Name:

Schroth Dairy Farm

- ☒ 4. The applicant certifies that funding from this grant will **not** be used for best management practices for which the DNR or local unit of government included a previous offer of cost sharing as part of a NR 151 notice or county notice that meets requirements of NR 151.09 or NR 151.095.
- ☒ 5. The project is consistent with the county Land & Water Resources Management Plan (LWRMP), plan amendment, or work plan prepared under s. ATCP 50.12, Wis. Adm. Code, and the approved LWRMP plan amendment, work plan or Inter-Governmental Agreement with DNR includes a qualifying strategy to implement state agricultural performance standards and prohibitions contained in subch. II of NR 151.

Identify the document name and date approved by the Land &amp; Water Board.

Name: 2010-2015 Outagamie County Land and Water Resource Management Plan - Plan extension to 2017	Date 02/25/2014
---	-----------------

- a. To demonstrate consistency with the LWRMP, identify the goals, objectives or activities from the LWRMP, plan amendment or work plan related to the resource(s) of concern being addressed by the project.
- Implementation of Agricultural Performance Standards
1. Annually Inventory the top 10% of farms yet to be inventoried from the list (list generated based on several environmental factors)
  2. Bring non-compliant "priority" farms into compliance (as funding permits). Enforce as necessary to achieve compliance.
- b. To demonstrate a qualifying NR 151 implementation strategy, identify the implementation strategy outlined in the approved LWRMP document. Provide page numbers and a web link or attach hard copy of the pages.
- <http://www.outagamie.org/index.aspx?page=208> Pages 46-67

- ☒ 6. The project will be completed within 24 months of the start of the grant period.
- ☒ 7. Staff and contractors designated to work on this project have adequate training, knowledge and experience to implement the proposed project.
- ☒ 8. Staff or contractual services, in addition to those funded by this grant, will be provided if needed.
- ☒ 9. The local DNR Nonpoint Source Coordinator (see <http://dnr.wi.gov/topic/nonpoint/NPScontacts.html>) has been contacted and the project was discussed.

Name of the Local/DNR Nonpoint Source Coordinator Contacted	Date Contacted	Subject of Contact
Erin Hanson	03/30/2015	2016 TRM Applications

- ☒ 10. If this application is for a livestock facility, an Animal Units Calculation Worksheet (Form 3400-25a) for existing and future livestock numbers is attached. (Form available at: [http://dnr.wi.gov/topic/AgBusiness/documents/3400025A\\_WT.doc](http://dnr.wi.gov/topic/AgBusiness/documents/3400025A_WT.doc)).
- ☐ 11. If this is a joint application among local units of government, a draft of the Inter-Governmental Agreement is attached. (See Attachment H)

**G. 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, if applicable. See instructions Part I. G. for table of standards and prohibition codes and effective dates. (Also see Attachment D for additional BMP information.) Assure a budget for each BMP is included in Part II. A.

<b>Structural Practice (Wis. Adm. Code)</b>	<b>Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses</b>	<b>Structural Practice (Wis. Adm. Code)</b>	<b>Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses</b>
<input type="checkbox"/> Manure Storage Systems (NR 154.04(3)) R16	Code(s) 4,9,11,12	<input type="checkbox"/> Riparian Buffers (NR 154.04(25)) R23	Code(s)
<input type="checkbox"/> Manure Storage System Closure (NR 154.04(4)) R15	Code(s)	<input type="checkbox"/> Roofs (NR 154.04(26)) R25	Code(s)
<input checked="" type="checkbox"/> Barnyard Runoff Control Systems (NR 154.04(5)) R3	Code(s) 8,12	<input checked="" type="checkbox"/> Roof Runoff Systems (NR 154.04(27)) R24	Code(s) 8,12
<input type="checkbox"/> Access Roads & Cattle Crossings (NR 154.04(6)) R1	Code(s)	<input type="checkbox"/> Sediment Basins (NR 154.04(28)) R26	Code(s)
<input type="checkbox"/> Animal Trails and Walkways (NR 154.04(7)) R2	Code(s)	<input type="checkbox"/> Sinkhole Treatment (NR 154.04(30)) R28	Code(s)
<input type="checkbox"/> Critical Area Stabilization (NR 154.04(10)) R6	Code(s)	<input type="checkbox"/> Subsurface Drains (NR 154.04(33)) R30	Code(s)
<input type="checkbox"/> Diversions (NR 154.04(11)) R7	Code(s)	<input type="checkbox"/> Terrace Systems (NR 154.04(34)) R31	Code(s)
<input type="checkbox"/> Field Windbreaks (NR 154.04(12)) R8	Code(s)	<input checked="" type="checkbox"/> Underground Outlets (NR 154.04(35)) R32	Code(s) 8,12
<input type="checkbox"/> Filter Strips (NR 154.04(13)) R9	Code(s)	<input checked="" type="checkbox"/> Waste Transfer Systems (NR 154.04(36)) R33	Code(s) code = 4
<input type="checkbox"/> Grade Stabilization (NR 154.04(14)) R10	Code(s)	<input checked="" type="checkbox"/> Wastewater Treatment Strips (NR 154.04(37)) R34	Code(s) code = 12
<input type="checkbox"/> Heavy Use Area Protection (NR 154.04(15)) R11	Code(s)	<input type="checkbox"/> Water and Sediment Control Basins (NR 154.04(38)) R35	Code(s)
<input type="checkbox"/> Lake Sediment Treatment (NR 154.04(16)) R12	Code(s)	<input type="checkbox"/> Waterway Systems (NR 154.04(39)) R36	Code(s)
<input type="checkbox"/> Livestock Fencing (NR 154.04(17)) R13	Code(s)	<input type="checkbox"/> Well Decommissioning (NR 154.04(40)) R37	Code(s)
<input type="checkbox"/> Livestock Watering Facilities (NR 154.04(18)) R14	Code(s)	<input type="checkbox"/> Wetland Development or Restoration (NR 154.04(41)) R38	Code(s)
<input type="checkbox"/> Prescribed Grazing (NR 154.04(22)) R20	Code(s)	Streambank and Shoreline Protection (NR 154.03(31)) (includes associated fencing)	
<input type="checkbox"/> Relocate or Abandon Animal Feeding Ops. (NR 154.04(23)) R21	Code(s)	<input type="checkbox"/> Stream Crossing R39C	Code(s)
Process Wastewater Handling (NR 154.04(19) & NRCS 629)		<input type="checkbox"/> Rip-rapping R39R	Code(s)
<input checked="" type="checkbox"/> Milking Center Waste Control Systems R17	Code(s) 7	<input type="checkbox"/> Shaping & Seeding R39S	Code(s)
<input type="checkbox"/> Feed Storage Leachate R52	Code(s)	<input type="checkbox"/> Fencing R39F	Code(s)
<input type="checkbox"/> Other Wastewater - specify in "Other" below	Code(s)	<input type="checkbox"/> Other Protection - e.g. bio- engineering - specify in "Other" below R39O	Code(s)
<input type="checkbox"/> Other (specify)			

**Part II. Competitive Elements**

**A. FINANCIAL BUDGET TABLE**

**A.1. Detailed Budget for every BMP checked in Part I. G. above.** The grant amount is capped at \$150,000.

A		B	
Detailed List of Project Activities and Sub-activities Eligible for DNR Cost Sharing		Amount Eligible for DNR Cost Sharing (\$)	
Construction Components:			
Excavation for tank and pipe		1,282	
6" Gravel Base - 4 cu. yds		40	
8'x8'x8' Concrete tank		6,000	
6" PVC c-900 - 448 ft. and fittings.		2,136	
Chopper pump		7,000	
Collection tank in milkhouse and at pump		800	
4" PVC Line and fittings		589	
Sump Pump		500	
Installation		1,000	
Excavation for Heifer Barn Transfer Tank and pipe		652	
6" Gravel Base		40	
8'x8'x8' Concrete Tank		6,000	
6" PVC c-900 and fittings		936	
2' Concrete wall - 84' and 5" concrete flat work 360 sq. ft.		3,180	
Chopper pump		7,000	
2'x2' reception tank - 50'		3,000	
Dairy barn transfer - piston pump		15,000	
Barn cleaner retro-fit		2,000	
12" PVC Transfer pipe and installation cost		925	
Excavation for waste storage - 3,887 cu. yds.		11,661	
Extra fill needed - 1500 cu. yds.		7,500	
5" Concrete liner - 16,050 sq. ft.		48,150	
6.5" Concrete liner - 10,337 sq. ft.		38,764	
1' Concrete curb - 81 ft.		1,215	
Fence - 593'		1,186	
Private Engineering Activities			
1. Construction Subtotal		166,556	
2. Local Force Account Activities (Entry is limited to \$10,715 or .05263 of Row 1, whichever is less.)			
Cost-Sharing:			
A	B	C	D
	Eligible Project Totals	Cost-Share %	Eligible Cost-Share
3. Construction-related Subtotal: [add Rows 1 and 2]	\$ 166,556	70 %	\$ 116,589
4. Property Acquisition: Fee Title & Easement	\$	70 %	\$
5. Project Grand Totals: [add Rows 3 and 4]	\$ 166,556		\$ 116,589
Cap Test:			
6. Maximum State Share: [row 5, column D or \$150,000, whichever is less]			\$ 116,589
State and Local Share:			
7. Requested State-Share Amount (Enter Requested Grant Amount)			\$ 115,500
8. Local-Share Amount: [row 5, column B less row 7]			\$ 51,056

**Small-Scale Ag. TRM Grant Application**

Form 8700-300 (R 1/15)

Page 6 of 13

TRM Grant Project Name:

Schroth Dairy Farm

**A.2. Use of Additional Funding**☒ Check this box if both of the following conditions are met.

- The requested state-share amount in row 7 is less than the \$150,000 grant cap.
- The requested state-share amount in row 7 is below the maximum state-share in row 6. (The resulting cost-share rate is less than 70%.)

**B. Method Used to Calculate Cost Estimates:** Select the appropriate option. Attach design, bid, estimate documentation, as applicable.

- ☐ 1. Project costs are based on completed design and competitive bid on the project. Construction components and costs above should be detailed. Provide the supportive documentation attached to this application.
- ☒ 2. Project costs are based on completed design with materials and labor costs based on similar, recently bid projects. Construction components in C. above should be detailed. Provide the supportive documentation in this application.
- ☐ 3. Project design is not complete; however, the proposed project and costs are based on similar and recent projects and costs. Provide as much construction detail in C. above as possible. Provide the supportive documentation in this application.
- ☐ 4. Project design is not complete and the cost estimate is based on an average or a range of projects and costs. Provide as much construction detail in C. above as possible. Provide the supportive documentation in this application.
- ☐ 5. Project and costs are less specific than choices above.  
Provide explanation of cost estimates below or attached to this application.

**C. Timeline and Source of Staff**

For each applicable milestone listed below, fill in the appropriate data.

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	3/2015	LCD
Obtaining required permits	1/2016	LCD
Landowner contacts	2/2016	LCD
CSA signing	3/2016	LCD, Landowner
Bidding	4/2016	LCD, Landowner
DNR approvals	4/2016	DNR
Contract signing	4/2016	LCD, Landowner
BMP construction	5/2016	Contractor
Site inspection and certification	6/2016	LCD
Project evaluation	12/2016	LCD
Other (specify)		

**D. Water Quality Need Category** – The project must be consistent with at least one of the following seven watershed priorities. Check the **one** category (surface or groundwater) which best identifies the water quality priority which the project directly addresses. See the [instructions](#) for category definitions and scoring information.

**Surface Water Considerations** For assistance with this section, consult the DNR's web pages provided below, see the [instructions](#) and see [Attachment A](#) of the instructions.

- ☒ 1. Clean Water Act section 303(d) List of Impaired Waters

Name of Applicable Impaired Water:

Bear Creek

Pollutant Causing Impairment:

Total Phosphorus

**Small-Scale Ag. TRM Grant Application**

Form 8700-300 (R 1/15)

Page 7 of 13

TRM Grant Project Name:

Schroth Dairy Farm

- ☐ 2. Outstanding or Exceptional Resource Waters (ORW/ERW), Area of Special Natural Resource Interest (ASNRI) - To locate ASNRI using DNR's Surface Water Data Viewer go to <http://apwmad0d1600/SL/Viewer.html?Viewer=SWDV&runWorkflow=DesignatedWaters>.  
Name of Applicable ORW/ERW or ASNRI: \_\_\_\_\_

- ☐ 3. Not Fully Supporting Uses or NPS Ranking of High or Medium.

- ☐ 4. Surface Water Quality

**Bonus Points: Federal NPS Program Watershed Project Funding Eligibility**

- ☐ Check this box if the project meets all of the following criteria:

- The project addresses a nonpoint source impaired waterbody listed on the most current EPA-approved Section 303(d) list of impaired waters or a nonpoint source threatened unimpaired/high quality water.
- The project is located upstream of and in the same 12-digit hydrologic unit (sub-watershed) as the 303(d) listed water or the unimpaired/high quality water.  
(Refer to [Attachment A](#) and <http://dnrmads.wi.gov/SL/?Viewer=SWDV> for assistance.)
- The project implements the goals and recommendations of an EPA-approved watershed-based "9 key element" plan.
- The project controls the same NPS pollutants which are impairing the 303(d) listed waterbody or threatening the unimpaired/high quality water.

The project may be eligible for Federal NPS Program (Clean Water Act Section 319) Watershed Project Funding. (Refer to [Attachment C](#) of the application instructions for a list of eligible plans or link to map and plans at: <http://dnr.wi.gov/water/9kemp/>.)

Provide the title of the EPA-approved nine key element plan this project implements.

**Groundwater Considerations** For assistance with this section, consult the local DNR Drinking Water and Groundwater Specialist (<http://dnr.wi.gov/topic/drinkingwater/documents/countycontacts.pdf>) or the County Extension Office.  
**Attach supporting documentation.**

- ☐ 5. Exceeds Groundwater Enforcement Standard  
Pollutant Causing Impairment: \_\_\_\_\_

- ☐ 6. Exceeds Groundwater Preventive Action Limit  
Pollutant Causing Impairment: \_\_\_\_\_

- ☐ 7. Groundwater Susceptible to Contamination by Agricultural Nonpoint Source Pollutants

**E. Drinking Water Bonus Points:**

Yes

- ☒ Check this box if the project water quality goals identified above relate to the reduction of nonpoint source contaminants in community or non-community public drinking water supplies. This includes any of the following: Municipal water supplies 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 F. (You will need assistance from your local DNR Nonpoint Source Coordinator (<http://dnr.wi.gov/topic/nonpoint/NPScontacts.html>) or Water Supply Specialist (<http://dnr.wi.gov/topic/drinkingwater/documents/countycontacts.pdf>) 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

- ☐ b. Check this box if the project is located within 200 feet of Transient water supply well.

- ☐ c. Check this box if you did not select a or b.

2. If "Yes" and you checked box 1, 2, 3, or 4 for surface water considerations above, then place a check mark next to the drainage area where the project is located (see below).

**Small-Scale Ag. TRM Grant Application**

Form 8700-300 (R 1/15)

Page 8 of 13

TRM Grant Project Name:

Schroth Dairy Farm

- ☐ Pike River and Creek
- ☐ Root River
- ☐ Oak Creek
- ☐ Milwaukee River
- ☐ Sauk Creek
- ☐ Sheboygan and Onion Rivers
- ☐ Manitowoc River

- ☐ Twin Rivers
- ☐ Kewaunee and Ahnapee Rivers
- ☐ Menominee River
- ☐ Fish Creek
- ☐ St. Louis and Nemadji Rivers
- ☒ Lake Winnebago

**F. Nature of the Water Quality Impact.** Check the box if the statement applies to receiving waters that are being affected by the project site.

- ☒ **1. General water quality impacts.** The receiving waters experience general resource degradation from nonpoint pollution sources. Cause and effect relationships between the impairments and the specific site to be funded are difficult or impossible to establish. (Note: This may be chosen if 1, 3, 4, 5 or 6 is checked in D. Water Quality Needs.)
- ☐ **2. Site-specific degradation.** Site-specific impacts on receiving waters from the site to be funded are observable or measurable such that a cause and effect relationship is clearly evident. (Note: This may be chosen if 1, 3, 4, 5 or 6 is checked in D. Water Quality Needs.)
- ☐ Supporting information, such as data summaries or photos, is attached. (Required to earn credit for statement 2.)
- ☐ **3. Threats.** There are no nonpoint source impacts observed or measured in receiving waters but the existence of the pollution source is perceived to be a threat. (Note: This may be chosen if 2. or 7. is checked in D. Water Quality Needs.)

**G. Project** - Describe the water quality problem, the solution being proposed and the expected environmental improvements.

**1. Describe the pollution problem(s) at the site and its effect on water quality (on site and off site).**

What are the critical pollutants and the pollutant sources on the project site? What are all of the Performance Standards & Prohibitions (PS&Ps) and/or TMDL goals that need to be addressed on the site? How does the site impact water quality? Describe how pollutants are conveyed to waters of the state, the distance(s) between source(s) and discharge points or areas to surface or ground water, frequency, magnitude and/or duration of discharge(s), etc. What is the current, estimated pollutant load? (Recommendation: attach photos of pollution source areas, pollution conveyance to waters of the state and the affected receiving water and mention photos here.)

The primary pollutant is Phosphorus related to barnyard runoff as well as Milkhouse Waste discharge. Currently runoff from multiple animal lots flows approximately 150' to where it concentrates into a road ditch where it then flows channelized to where it discharges into Bear Creek, approximately .75 miles to the south (see aerial photo of site). BARNY modeling for the 6 animal lots for the farm estimate discharge at approximately 198 pounds of Phosphorus annually. As a result, this farmstead is currently non-compliant with PS&P's due to barnyard runoff discharging to waters of the state. Attached photos show discharge leaving the mentioned barnyards and accumulating in the adjacent road ditch from where it then continues downstream to Bear Creek.

**2. Describe the project.**

What is this project? What pollution problem(s) described above will be addressed with this project and how? How much of the pollution problem(s) associated with this site/operation will this project address? Which of the NR 151 PS&Ps or TMDL goals identified above will this project address? Which, if any, will remain to be addressed (and why)? Will the remaining PS&Ps be addressed with other funding sources in the same timeframe as this project or will they need to be addressed in subsequent years/grants?

The proposed project includes collecting discharge from lots C1 and C2 (see reference air photo) and pumping to a newly constructed manure storage facility. Lots E1A, E1B, and E2 will be eliminated as a result of the project. Lot E3 will be seeded down and managed as a vegetated pasture. Additionally, milkhouse waste that is currently discharging directly to the road ditch will be collected and pumped to the manure storage facility.

EQIP funding is also being applied for to address issues with this farm. If successful, the EQIP funds will be used as the primary funding source for the project with TRM funding used to backfill shortfalls (resulting in a lower percentage of the requested amount being used).



**3. Describe the expected environmental improvements.**

How effective will this project be in solving the pollution problem(s) and water quality impacts described above? What is the expected percent reduction in pollutant loading or pollution potential after this project is completed? What is the compliance level with NR 151 PS&Ps that will be achieved with completion of this project and what will remain to be addressed? What is the potential for water quality improvement of the receiving water?

As a result of the proposed practices, this farm will be brought in to 100% compliance with PS&P's and discharge from the farm will be 100% eliminated, reducing 198# of phosphorus from reaching Bear Creek annually.

With Bear Creek being listed due to excessive Phosphorus loading, this project directly addresses the nutrient for which it was listed. Based on assessments of other area farms, this is one of the highest discharging farms in the area contributing to Bear Creek. Correcting issues on this site is a good step forward in improving water quality for the stream.

---

**H. Cost-Effectiveness**

1. a. Explain how the proposed best management practices are a reasonable means to achieve NR 151 Performance Standards and Prohibitions (PS&Ps) or TMDL water quality goals. Include factors such as cost-effectiveness, site feasibility, available technical standards, and practicality. If applicable, include information to demonstrate that BMP(s) are sized to meet current and allowable insignificant growth needs of the operation (e.g. concrete pads for barnyards, feed storage, etc.) to achieve PS&Ps and water quality goals.

The proposed practices prescribed for this site will provide a 100% reduction of nutrients leaving this site and entering Bear Creek. While not only eliminating runoff from the animal lots, the included storage facility will enable the farm to contain animal waste during snow covered, frozen ground, and periods of soil saturation thus greatly reducing runoff risk associated with the current practice of daily hauling for the facility (see included photo of farm hauling on snow covered ground from this past winter).

The farm has no intentions of expanding with both pre and post construction AU calculation sheets reflecting the same. However, the project is calling for an additional 60 days (8 months total) of storage volume to provide greater flexibility during years with saturated soil conditions. This is particularly important for this farm due to the proximity of its spreadable acreage to Bear Creek and its tributaries.

- b. DNR requires that new or substantially altered manure storage facilities be designed to meet the applicable NR 151 PS&Ps. Typically, a manure storage facility that is designed and maintained to provide 180 days of storage is sufficient to meet NR 151 PS&Ps. The state share should be based only on the cost to construct a facility to meet NR 151 PS&Ps. Submit the WASTE STORAGE FACILITY DESIGN - 313 STANDARD worksheet or equivalent information to support the facility size and cost information submitted in this application.

Monitoring data for Lower Fox TMDL has shown that up to 75% of the total P load is related to 5 major runoff events/year most of which fall between March - June. This can be partially attributed to manure being spread during "less than ideal" soil conditions. The fall of 2013 had particularly saturated or nearly saturated soil conditions throughout the area. Monitoring results during spring of 2014 showed some of the highest spikes in Total P delivery recorded since the monitoring stations were installed. While the monitoring stations are in the Lower Fox watershed, similar results are occurring County wide. The additional 2 months of storage volume allows more flexibility to help avoid these times.

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

Constructing "traditional" barnyard runoff control practices for the two large existing animal lots was not practical as the associated vegetated treatment strips required to make the practice work does not fit the farmstead layout. Runoff would need to be pumped to a remotely located VTA.

Similarly, the milkhouse waste issue had similar problems. Constructing storage will solve these issues and provide complete containment for the entire site.

---

**I. Project Evaluation Strategy**

**1. Project Modeling and Measures of Change**

Describe the strategy that will be implemented to evaluate the pre- and post-project pollution potential and pollutant loading data that is required for the Final Project Report. Describe the pre- and post-project evaluation modeling methods and measures that the applicant will use to measure success in achieving the NR 151 PS&Ps or TMDL project goals. See the instructions for lists of BMPs, PS&Ps, modeling and measurement methods and units of measure.

Both pre and post runoff modeling for the site was conducted using the BARNY modeling software. Storage will be measured as "per completed practice". Additional units of measure will include the number of acres brought into compliance with PS&P's as a result of being able to meet a nutrient management plan for the farm.

**2. Water Quality Monitoring (not eligible for cost sharing at this time)**

If, in addition to the above, the project evaluation strategy includes evaluating BMP effectiveness and/or pre- and post-project water resource monitoring, and the information will be provided to DNR, check all that apply below.

- ☐ a. A one-page summary of the project-specific BMP and/or water resource monitoring strategy is attached.
- ☐ b. The project will evaluate BMP pollution reduction effectiveness (e.g., inlet/outlet monitoring).
- ☐ c. The project will evaluate the in-stream physical habitat, fisheries, biological, or chemical conditions.
- ☒ d. The applicant is willing to participate with the Department to do monitoring in the project area should funding become available

**J. Evidence of Local Support that currently exists for the proposed project - check the applicable situation below.**

1. **Regulatory Situations** - The total project cost is attributed to the resolution of a Notice of Discharge (NOD) or a Notice of Intent to Issue an NOD (NOI) under NR 243 or non-compliance with agricultural performance standards and prohibitions under subch. II of NR 151 or a local regulation and *at least one* of the following is attached to this application form: (check all that apply).

- ☐ a. Signed and dated copy of the NOI or NOD issued under NR 243;
- ☐ b. Signed and dated copy of letter signed by the authorized DNR representative stating that DNR will issue a notice under NR 151 or NR 243;
- ☐ c. Signed and dated copy of letter from the authorized county representative that the local regulation will be enforced at the project site.

*If you checked J.1., then go on to Question K. If this project is not regulatory, continue to number 2. of this question.*

2. **Non-Regulatory Situations** - Check the applicable situation below.

- ☒ The governmental unit has:
  - ☒ a. Developed a detailed pollution control plan with the landowner(s)/land operator(s) that identifies specific BMPs and the affected landowner(s)/land operator(s) indicated that they will sign a cost-share agreement to install the practices requested in this grant application; **or**
  - ☐ b. Conducted general assessments of the pollution sources within the project area and affected landowner(s)/land operator(s) indicated a general interest to participate in the project; **or**
  - ☐ c. Contacted the landowner(s)/land operator(s) about the proposed BMP installations; however, landowner(s)/land operator(s) participation is undetermined.
  - ☐ d. If a. or b. is checked, letters of support for the project from affected landowner(s)/land operator are attached.

If a., b. or c. is checked above, provide details here.

This farm has transferred ownership over from father to son. The son is willing to work with the LCD on a voluntary basis to correct long time issues with the site. If the cooperative nature of the situation were to change, the County is prepared to follow through with a more structured approach with enforcement of the County's ordinance which includes the PS&P's.

3. **Involvement of Partners** - check box if applicable.

- ☒ Partners, in addition to the unit of government (applicant) and landowner, have committed resources (materials, equipment, staff or financial resources) towards the BMP installation, maintenance or evaluation of the project.

If checked, list the project partner(s).

DATCP, NRCS

**Small-Scale Ag. TRM Grant Application**

Form 8700-300 (R 1/15)

Page 11 of 13

TRM Grant Project Name:

Schroth Dairy Farm

- ☒ Letters from the project partner(s) indicating the resources they committed to support the project are attached. (Letters of resource support must be attached for a score here.)

**K. Consistency with Other Resource Management Plans**

- ☒ Check this box if the proposed project implements a water quality recommendation from a locally approved resource management plan. Examples include Smart Growth plans, Legacy Community plans, Water Star plans, local Storm Water Management plans, wellhead protection, lake management, regional water quality plans, Remedial Action plans and other watershed-based nonpoint source control plans.

(This question does not include a TMDL report or implementation plan, or a County Land and Water Resource Management Plan.)

Cite the name and date(s) of publication of the document. Attach pertinent page(s) or provide URL and page numbers. Summarize the water quality recommendation(s) and describe how it relates to the goals of this proposed project. (Required to earn credit for K.)

Wolf River State of the Basin Report - 2001 - pg. 23

The non-point ranking table for segments of and tributaries to the Wolf specifically list Bear Creek as "High" even though the mainstem of the Wolf is ranked medium and low for this stretch.

Wolf/New London and

Bear Creek

WR12 Medium Medium Low Bear Creek Ranked High

Small-Scale

**Part III. Eligibility for Local Enforcement Multiplier**

Completion of Part III is optional. However, an applicant can increase the final project score by qualifying for a project multiplier. Check the **one** enforcement authority situation which **best** applies to the governmental unit applying for a TRM grant combined with the proposed project.

- ☐ The applicant certifies that it has local authority to enforce all state agricultural performance standards and prohibitions at all sites within the local jurisdiction where such state agricultural performance standards and prohibitions apply. *Multiply the initial project score by a factor of 1.15.*
- ☒ The applicant certifies that it has local regulations that give local authority to enforce most, but not all, of the state agricultural performance standards and prohibitions at all sites within the local jurisdiction where such state agricultural performance standards apply; **and** this project addresses an enforceable performance standard or prohibition. *Multiply the initial project score by a factor of 1.10.*
- ☐ The applicant certifies that it has local regulations that give local authority to partially enforce some of the state agricultural performance standards and prohibitions at some, but not all, of the sites within the local jurisdiction; **and**, this project addresses an enforceable performance standard or prohibition on a site under local jurisdiction. *Multiply the initial project score by a factor of 1.05.*
- ☐ Applicant has no local authority to enforce state agricultural performance standards and prohibitions within the local jurisdiction **for this proposed project. No multiplier is earned.**

Copies of ordinances for which credit is taken in this section are: (choose at least one)

- ☒ Found at this website (provide most direct web page URL).  
<http://www.outagamie.org/modules/showdocument.aspx?documentid=121>

☐ Attached to this application.

☐ Already attached to another application for funding.

**Optional Additional Information**

Carefully review the answers to all of the questions above. Is there additional information that will add to the understanding of this project? If so, describe here.

**Applicant Certification**

A Responsible Government Official (authorized signatory) must sign and date the application form prior to submittal to the DNR. The governmental official with signatory authority must be the person authorized by the Governmental Responsibility Resolution. I certify that, to the best of my knowledge, the information contained in this application and attachments is correct and true.

Signature of Authorized Government Official.

Date Signed



4/9/15

Name (Please Print)

Title

Gregory J. Baneck

County Conservationist

☒ The required, completed Governmental Responsibility Resolution (signed in blue ink) (see Attachment I) is attached.

**Submittal Directions**

To be considered for funding, provide the following for each application submitted:

- One copy of the completed application form [DNR Form 8700-300 (R 1/15)] with **original signature in blue ink**, and all attachments.
- Three additional copies of the completed, signed application form and all attachments.
- One electronic copy of the completed application form in **PDF format only** plus all attachments and maps on CD.

All application materials must be postmarked by midnight **April 15 of the same calendar year**.

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

or

PO Box 7921  
Madison WI 53707-7921

**Please use this page to write any constructive comment(s) you might have to improve this application.**

Thank you.

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 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).

Current Animal Unit Calculation Numbers							
Name of Site:							
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	30	= 6	Fed numbers in this column comply with 40 CFR s. 122.23		
Dairy Cattle	Milking & Dry Cows	1.40 x	125	= 175	1.43 x	125	= 179
	Heifers (800 lbs to 1200 lbs)	1.10 x	70	= 77			
	Heifers (400 lbs to 800 lbs)	0.60 x	70	= 42	1.00 x	119	= 119
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
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 = 300 (add all rows above)			Total Non-Mixed Animal Units = 298 (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 within the next five years.

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**

**Name of Site:**

Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. Equiv. factor	c. Projected Number	d. No. of AUs	e. Equiv. factor	f. Projected 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	30	= 6	Fed. numbers in this column comply with 40 CFR s. 122.23		
Dairy Cattle	Milking & Dry Cows	1.40 x	125	= 175	1.43 x	125	= 179
	Heifers (800 lbs to 1200 lbs)	1.10 x	70	= 77			
	Heifers (400 lbs to 800 lbs)	0.60 x	70	= 42	1.00 x	119	= 119
Beef	Steers or Cows (400 lbs to market)	1.00 x		=			
	Bulls (each)	1.40 x		=	1.00 x		=
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		=
<b>Total Animal Units:</b>		Total Mixed Animal Units = 300 (add all rows above)			Total Non-Mixed Animal Units = 298 (Enter the single highest number from any row above; DO NOT add the totals)		

Date of Proposed Expansion (MM/YY):

Pg. 16

**WASTE STORAGE FACILITY DESIGN - 313 STANDARD**

CLIENT: Schroth - Jerome & Jeff		COUNTY: OUTAGAMIE		DATE: 4/9/15	
DSN BY: EM		CHK BY: _____		DATE: _____	
COMMENTS:					
ANIMAL TYPE> <input type="text" value="1"/> (1=DAIRY, 2=BEEF, 3=VEAL, 4=SWINE(finishing), 5=SWINE(farrowing), 6=POULTRY, 0=OTHER)					
For Dairy: Rolling Herd Average		<input type="text" value="25,000"/>	lbs/cow/yr		Is it a stanchion barn? <input type="text" value="y"/> (Y or N)
<b>MANURE AND WASTEWATER</b>					
<b>LIVESTOCK</b>		<b>AVG. WT.</b>	<b>DAILY OUTPUT, CU FT</b>		<b>DAYS OF STORAGE</b>
<b>KIND</b>	<b>NUMBER</b>	<b>PER HEAD</b>	<b>MANURE</b>	<b>BEDDING</b>	<b>VOLUME REQUIRED</b>
Cows	110	1,400	2.53	0.2	300.3
Heifers	20	1,200	1.92	0.2	42.4
Heifers	20	1,000	1.60	0.2	36.0
Heifers	40	700	1.12	0.2	52.8
Heifers	20	450	0.72	0.2	18.4
WASTEWATER:		550	GAL/DAY		73.5 CU FT/DAY
		TOTAL DAILY VOLUME: 523.4 CU FT / DAY			
					235 TOT. A.U.
					1,429,067 GALLONS
<b>Total Manure and Wastewater</b>					<b>191,052 CU FT</b>
Expected % solids in waste (Includes runoff and precip.)					9.1 %

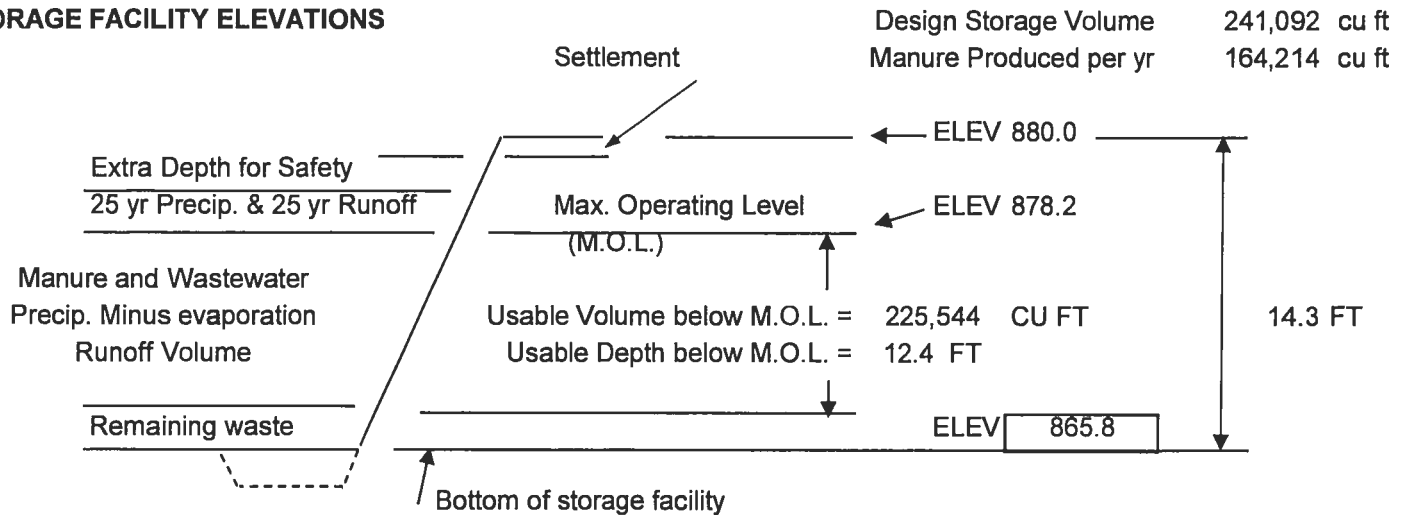
<b>RUNOFF VOLUME</b>					
<b>MONTHLY RUNOFF</b>					
RCN	<input type="text" value="95"/>	<input type="text" value="21.8"/> IN.	X	<input type="text" value="13,830"/> Ft <sup>2</sup> Drainage Area=	<input type="text" value="25,125"/> CU FT
		<input type="text" value="12"/>		(Do not include storage area)	
<b>25 Year, 24-HOUR RUNOFF</b>					
RCN	<input type="text" value="95"/>	<input type="text" value="3.3"/> IN.	X	<input type="text" value="13,830"/> Ft <sup>2</sup> Drainage Area=	<input type="text" value="4,409"/> CU FT
		<input type="text" value="12"/>		(Do not include storage area)	
					1,649,980 GALLONS
<b>Total for Manure, Milking Center, Runoff Volume, and 25 Yr Runoff</b>					<b>220,586 CU FT</b>

<b>PRECIPITATION</b>		Does the facility collect precipitation? (No roof or lid)		<input type="text" value="1"/> (1 for yes, 2 for no)
		Beginning Month for Precip. Collection		<input type="text" value="11"/> (1=Jan, 2=Feb, etc.)
Precipitation minus evaporation				
Average Precipitation on Storage Surface		<input type="text" value="31.1"/> INCH		<input type="text" value="2.6"/> FT
Average Evaporation from Storage Surface		<input type="text" value="27.4"/> INCH		<input type="text" value="2.3"/> FT
Net Precipitation on Storage Surface		<input type="text" value="3.7"/> INCH		<input type="text" value="0.3"/> FT
25-Yr, 24-Hr Precip on Storage Surface		<input type="text" value="4.4"/> INCH		<input type="text" value="0.4"/> FT

<b>REMAINING WASTE</b>	(If no sump, use these minimums: ponds -2', tanks-1')	<input type="text" value="0.0"/> FT
<b>EXTRA DEPTH FOR SAFETY</b>	(1-ft. Minimum)	<input type="text" value="1.0"/> FT
<b>SETTLEMENT</b>	(5% of Embankment Height)	<input type="text" value="0.3"/> FT
<b>M.O.L. DEPTH</b>	(Depth to hold Manure, Wastewater, Runoff, and Precip.)	<input type="text" value="12.42"/> FT
<b>Total Depth of the Storage Facility</b>		<input type="text" value="14.3"/> FT



## STORAGE FACILITY ELEVATIONS



<b>STORAGE SIZING</b>	IS STORAGE RECTANGULAR OR ROUND ?	<input type="text" value="1"/>	(1= Rectangular; 2= Round)
	SIDE SLOPES OF STORAGE	<input type="text" value="2.5"/>	:1 (Use "0" for walls)
	CHOOSE A BOTTOM WIDTH	<input type="text" value="80"/>	FT
	BOTTOM LENGTH REQUIRED	<input type="text" value="130"/>	FT
	ROUND STORAGE BOTTOM DIAMETER REQUIRED	<input type="text" value="N.A."/>	FT

## STORAGE SIZING SUMMARY

<b>RECTANGULAR</b>	BOTTOM SIDE 1:	80	FT	
	BOTTOM SIDE 2:	130	FT	
	M.O.L. VOLUME PROVIDED:	225,544	CU FT	1,687,071 GALLONS
	DAYS STORAGE PROVIDED:	365	DAYS	
	TOTAL VOLUME FROM BOTTOM TO SETTLED TOP:	269,226	CU FT	2,013,812 GALLONS
<b>ROUND</b>	CHOOSE BOTTOM:	N.A.	FT DIAM	
	M.O.L. VOLUME PROVIDED:	12,488	CU FT	93,410 GALLONS
	DAYS STORAGE PROVIDED:	20	DAYS	
	TOTAL VOLUME FROM BOTTOM TO SETTLED TOP:	17,768	CU FT	132,903 GALLONS

April 9<sup>th</sup>, 2015

Attn: Greg Baneck  
Outagamie County LCD  
3365 W. Brewster St.  
Appleton, WI 54913

Subject: Targeted Runoff Management Grant Application

Dear Mr. Baneck,

I am writing you to express my interest in seeking funding through the DNR's Targeted Runoff Management Grant Program. Runoff from our animal lots has been a long standing concern for our farm which we would like to address. Additionally, our current daily haul system makes following a nutrient management plan difficult at best. Storage is required to avoid having to spread during periods of frozen and snow covered ground. Our proximity to Bear Creek makes the likelihood of polluted runoff during spring thaw and extreme storm events high.

If there's anything that I can do to further assist with the submission of the application for the TRM program, please contact me.

Sincerely,

  
Jerome Schroth

## EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Jerome & Jeff Schroth Planner/Designer: EM Date: 4/9/15  
 Lot C1

	Input	Output	
Closest City of similar climate:	2		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	6,917		sq ft
Earth lot area:			sq ft
Animal Lot size:		6,917	sq ft
Is there a designed settling basin?	2		Yes= 1; No= 2
Animals on lot:	50		number
Type of animal:	1		( Dairy = 1; Beef=2 )
Ave. Animal Weight:	1,000		lbs
Lot Use:	1		1= Heavy; 2=Med; 3= Light)

**TRIBUTARY AREAS**

Tributary area:  sq ft  sq ft

Runoff Curve Number:  See RCN tab below  
for typical values

Roof Trib. area:  sq ft

36.9 lbs P per year  
at downstream lot edge

**Enter Existing Buffer Data:**

Length:  0 ft

Width:  0 ft

Buffer area:

Slope:  2.8 %

c value  0.05 For c values see table below

**P Output:** 36.9 lb

## EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Jerome & Jeff Schroth Planner/Designer: EM Date: 4/9/15  
 Lot C2

	Input	Output	
Closest City of similar climate:	2		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	6,868		sq ft
Earth lot area:			sq ft
Animal Lot size:		6,868	sq ft
Is there a designed settling basin?	2		Yes= 1; No= 2
Animals on lot:	50		number
Type of animal:	1		number
Ave. Animal Weight:	1,000		lbs
Lot Use:	1		

( Dairy = 1; Beef=2 )  
 1= Heavy; 2=Med; 3= Light

**TRIBUTARY AREAS**

Tributary area:  sq ft  sq ft

Runoff Curve Number:  See RCN tab below  
for typical values

Roof Trib. area:  sq ft

36.6 lbs P per year  
 at downstream lot edge

**Enter Existing Buffer Data:**

Length:  0 ft

Width:  0 ft

Buffer area:

Slope:  2.5 %

c value:  0.05 For c values see table below

**P Output:** 36.6 lb



## EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Jerome & Jeff Schroth Planner/Designer: EM  
Lot E1A

Date: 4/9/15

	Input	Output	
Closest City of similar climate:	<input type="text" value="2"/>		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	<input type="text"/>		sq ft
Earth lot area:	<input type="text" value="2,301"/>		sq ft
Animal Lot size:		<input type="text" value="2,301"/>	sq ft
Is there a designed settling basin?	<input type="text" value="2"/>		Yes= 1; No= 2
Animals on lot:	<input type="text" value="20"/> number	<input type="text"/>	number
Type of animal:	<input type="text" value="1"/>		( Dairy = 1; Beef=2 )
Ave. Animal Weight:	<input type="text" value="300"/> lbs	<input type="text"/>	lbs
Lot Use:	<input type="text" value="1"/>		1= Heavy;2=Med;3= Light)

## TRIBUTARY AREAS

Tributary area:	<input type="text"/>	sq ft	<input type="text"/>	sq ft	See RCN tab below for typical values
Runoff Curve Number:	<input type="text"/>				
Roof Trib. area:	<input type="text"/>	sq ft			

4.7 lbs P per year  
at downstream lot edge

## Enter Existing Buffer Data:

Length:	<input type="text" value="0"/>	ft
Width:	<input type="text" value="0"/>	ft
Buffer area:		
Slope:	<input type="text" value="2.5"/>	%
c value	<input type="text" value="0.05"/>	For c values see table below

P Output:

 lb

## EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Jerome & Jeff Schroth Planner/Designer: EM  
Lot E1B

Date: 4/9/15

	Input	Output	
Closest City of similar climate:	2		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:			sq ft
Earth lot area:	8,194		sq ft
Animal Lot size:		8,194	sq ft
Is there a designed settling basin?	2		Yes= 1; No= 2
Animals on lot:	20 number		number
Type of animal:	1		( Dairy = 1; Beef=2 )
Ave. Animal Weight:	300 lbs		lbs
Lot Use:	1		1= Heavy;2=Med;3= Light

## TRIBUTARY AREAS

Tributary area: 23,327 sq ft

Runoff Curve Number: 79

Roof Trib. area: sq ft

sq ft

See RCN tab below  
for typical values8.7 lbs P per year  
at downstream lot edge

## Enter Existing Buffer Data:

Length: 0 ft

Width: 0 ft

Buffer area:

Slope: 3.2 %

c value 0.05 For c values see table below

P Output:

8.7 lb

## EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Jerome & Jeff Schroth Planner/Designer: EM Date: 4/9/15  
 Lot E2

	Input	Output	
Closest City of similar climate:	2		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:			sq ft
Earth lot area:	54,211		sq ft
Animal Lot size:		54,211	sq ft
Is there a designed settling basin?	2		Yes= 1; No= 2
Animals on lot:	50 number		number
Type of animal:	1		( Dairy = 1; Beef=2 )
Ave. Animal Weight:	600 lbs		lbs
Lot Use:	1		1= Heavy;2=Med;3= Light

**TRIBUTARY AREAS**

Tributary area:	133,081	sq ft		sq ft
Runoff Curve Number:	81			← See RCN tab below for typical values
Roof Trib. area:		sq ft		

**44.9 lbs P per year at downstream lot edge**

**Enter Existing Buffer Data:**

Length:	0	ft
Width:	0	ft
Buffer area:		
Slope:	2.7	%
c value	0.05	For c values see table below

**P Output:**

44.9	lb
------	----



## EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Jerome & Jeff Schroth Planner/Designer: EM Date: 4/9/15  
 Lot E3

	Input	Output	
Closest City of similar climate:	2		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:			sq ft
Earth lot area:	54,211		sq ft
Animal Lot size:		54,211	sq ft
Is there a designed settling basin?	2		Yes= 1; No= 2
Animals on lot:	50 number		number
Type of animal:	1		( Dairy = 1; Beef=2 )
Ave. Animal Weight:	1,000 lbs		lbs
Lot Use:	1		1= Heavy; 2=Med; 3= Light

## TRIBUTARY AREAS

Tributary area:	100,541	sq ft		sq ft	See RCN tab below for typical values
Runoff Curve Number:	81				
Roof Trib. area:		sq ft			

66.1 lbs P per year  
at downstream lot edge

## Enter Existing Buffer Data:

Length:	0	ft
Width:	0	ft
Buffer area:		
Slope:	3.2	%
c value	0.05	For c values see table below

## P Output:

66.1 lb






## Schroth Dairy Farm



### Legend

-  12-digit HUCs (Subwatersheds 2010 Air Photos (WROC))

1: 5,370



0.2 0 0.08 0.2 Miles

NAD\_1983\_HARN\_Wisconsin\_TM  
© Latitude Geographics Group Ltd.

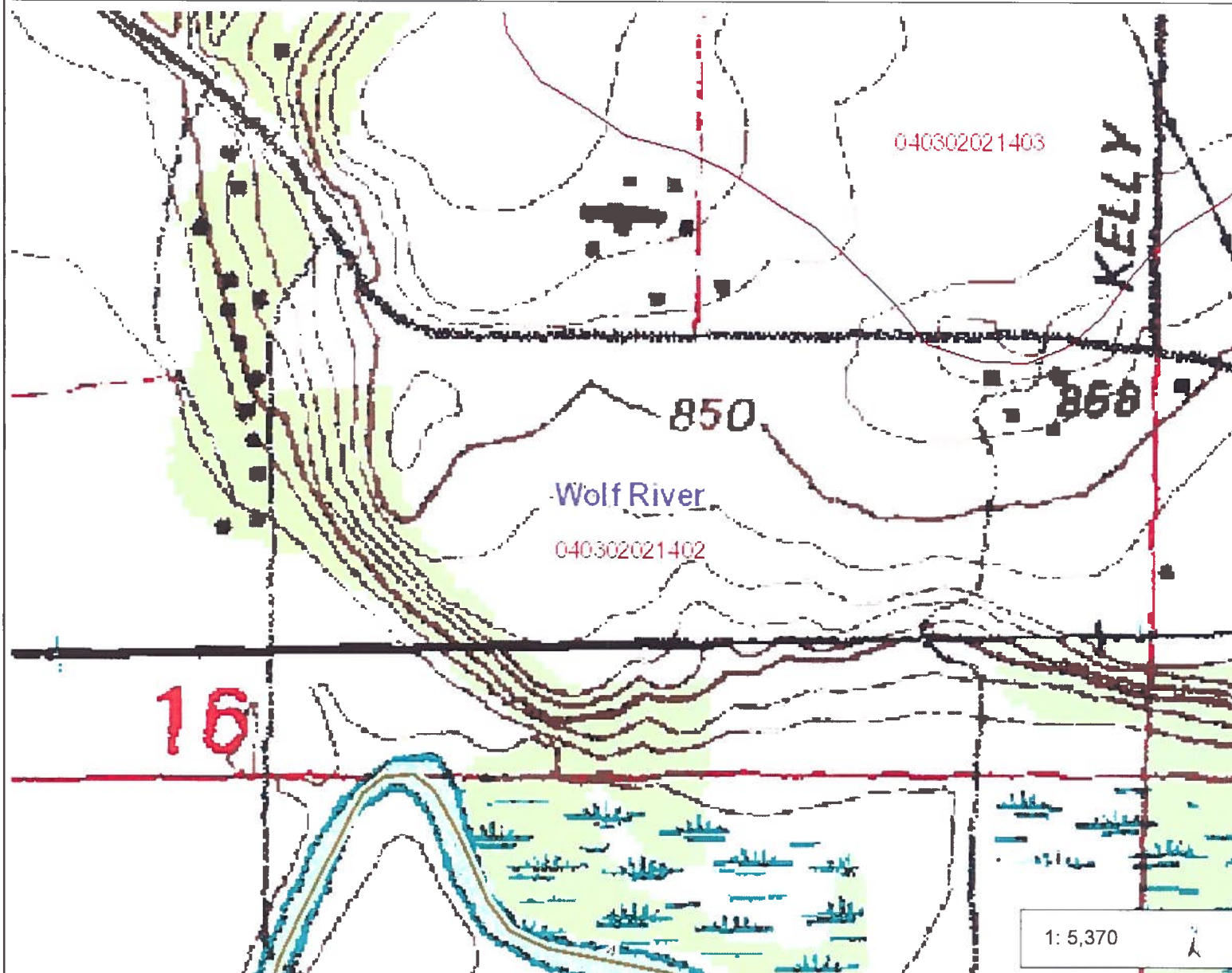
DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No 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/org/legal/>

### Notes

25



# Schroth Dairy Farm



## Legend

- Assessment Units Streams (W)
- Assessment Units Lakes (WA)
- NPS Rank Lines
  - High Stream
  - Medium Stream
  - Low Stream
  - Not Ranked
- NPS Rank Areas
  - High Lake
  - Not Ranked
- Impaired Rivers and Streams
- Impaired Lakes
- DNR Water Management Units
- Intermittent Streams
- Stream Order
  - 1st Order
  - 2nd Order
  - 3rd Order
  - 4th Order
  - 5th Order
  - 6th Order
  - 7th Order
  - 8th Order
  - 9th Order
- 12-digit HUCs (Subwatersheds)

1: 5,370

## Notes

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/org/legal/>

0.2 0 0.08 0.2 Miles

NAD\_1983\_HARN\_Wisconsin\_TM  
© Latitude Geographics Group Ltd.

16.20



JEROME & JEFF SCHROTH - CONCRETE & EARTH LOTS



0 40 80 160 240 320 Feet 1"=80'



Jerome & Jeff Schroth

Concrete Barnyard

runoff leaves orifice in wall then  
travels down driveway into road ditch

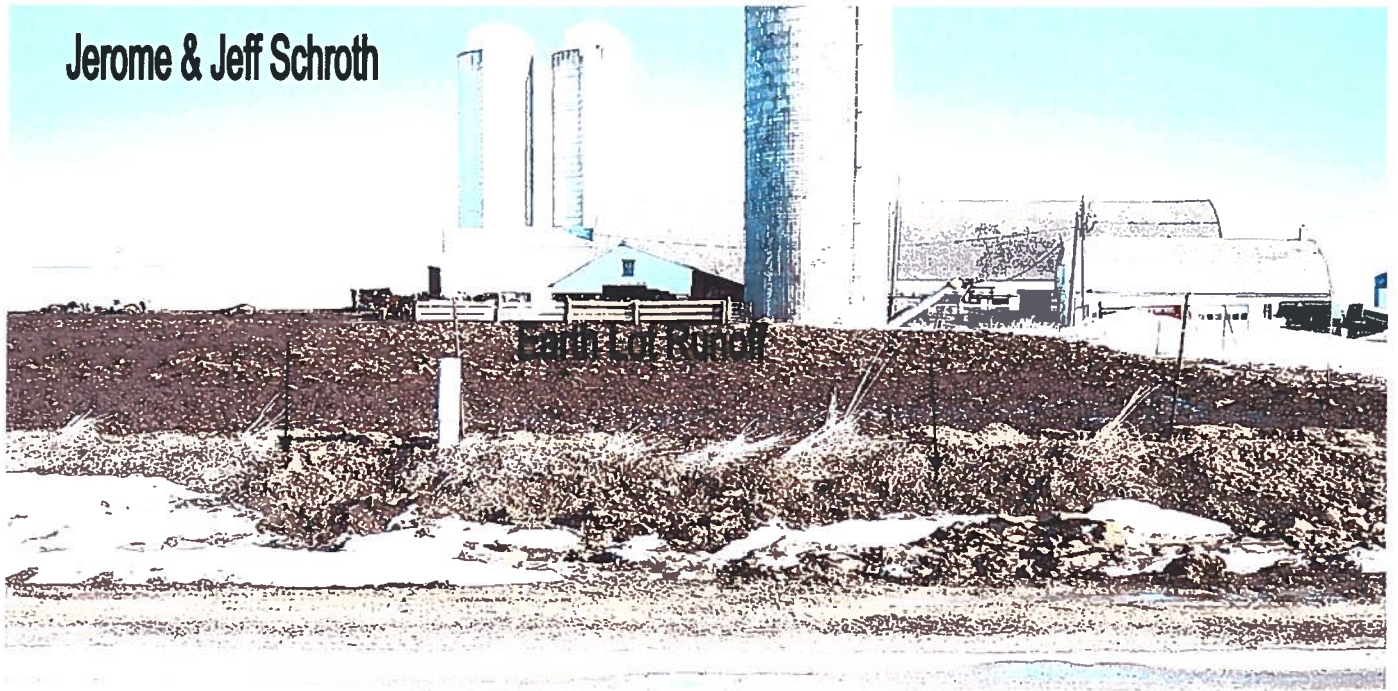
FEB/24/2015

daily spreading of manure

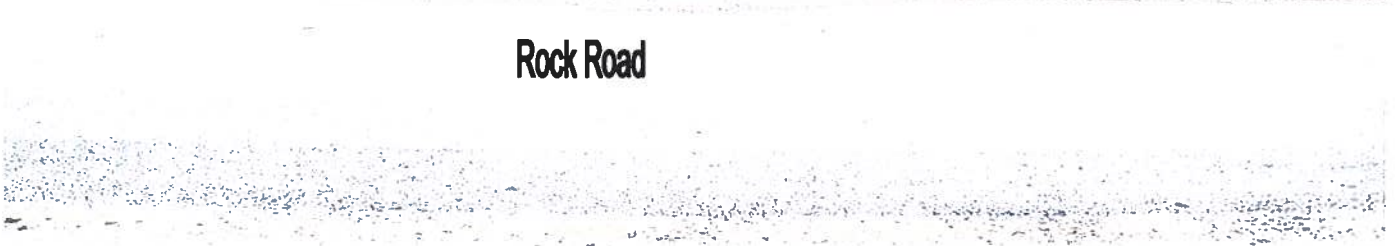
FEB/24/2015



Jerome & Jeff Schroth



Rock Road





United States Department of Agriculture

3369 W. Brewster Street  
Appleton, WI 54914  
Phone: (920) 733-1575 ext. 3  
[www.wi.nrcs.usda.gov](http://www.wi.nrcs.usda.gov)

April 9, 2015

Greg Baneck – County Conservationist  
Outagamie County Land Conservation Dept.  
3365 West Brewster Street  
Appleton, WI 54914

Subject – 2016 Targeted Runoff Management Grant Applications

Dear Mr. Baneck:

NRCS and the Outagamie County Land Conservation Department have a long history of working cooperatively towards protecting and improving the soil and water resources of Outagamie County. To that end, NRCS supports the LCD's 2016 TRM small scale grant applications for Albert, Verhasselt, Singler, Schroth, and Steffens farms. NRCS will assist where we can in the implementation of these grants.

Sincerely,

Lynn Szulczewski  
NRCS District Conservationist  
Appleton NRCS Service Center