

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

Manke Farm Manure Storage Improvements

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

La Crosse County Land Conservation Department

Governmental Unit Web Site Address

www.co.la-crosse.wi.us/index.asp

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

Gregg Stangl

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

same

Title

Director, Department of Land Conservation

Title

Area Code + Phone Number

(608) 785-9867

Area Code + Phone Number

E-Mail Address

gstangl@lacrosecounty.org

E-Mail Address

Mailing Address - Street or PO Box

400 4th St N, Room 3270

Mailing Address - Street or PO Box

City

La Crosse

State

WI

ZIP Code

56401

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.

Small-Scale Ag. TRM Grant Application

Form 8700-300 (R 1/15)

Page 2 of 14

TRM Grant Project Name:

Manke Farm Manure Storage Improvements

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 La Crosse				State Senate District number: 32			State Assembly District number: 94	
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)
Bangor, Town of	16 N	5	W	31	SE	NW	43.8194	-91.0192
	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
Lower La Crosse River	Bad Axe - La Crosse	Bostwick Creek	"Unnamed creek to the West"

12-digit Hydrologic Unit Code (HUC): 070400060401

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 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 14

TRM Grant Project Name:

Manke Farm Manure Storage Improvements

- ☒ 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 & Water Board.

Name: La Crosse County Land and Water Resource Management Plan	Date 12/06/2011
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- 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.
- Water Quality Assessment/Goals and Standards, Chapter 3-page 13, The Department has established surface water quality goals compatible with existing Federal, State and County goals for total phosphorus, fecal coliform bacteria and dissolved oxygen. Total Phosphorus; 0.05 mg/L or less, Fecal Coliform Bacteria; Less than 1,000 colonies per 100 ml., Dissolved Oxygen; No less than 5 mg/L at any time; no less than 6 mg/L for trout waters; and no less than 7 mg/L during spawning season. Targeted Watersheds, Chapter 5 - page 4, Landowners in targeted watersheds will be contacted regarding the requirements to comply with NR 151 and Chapter 23, Animal Manure Management Ordinance. Objectives and activities for agricultural performance standard implementation can be found in Chapter 5 - page 11. Link to the La Crosse County LWRMP; <http://www.co.la-crosse.wi.us/departments/land%20con/docs/LWRMP%202012-2016.pdf>.
- 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.
- Agricultural Performance Standards Implementation Schedule, Chapter 5-page 11, Work towards full compliance of agricultural performance standards based on general priorities as indicated within the LWRM work plan. Priority Farms, Farmland Preservation Program, Chapter 5-page 3, Priority farms are those farms where landowners receive annual tax credits through the Farmland Preservation Program. Each Farmland Preservation Program participant is required to meet the new Soil Conservation Standards approved by the Wisconsin Land and Water Conservation Board in June 2005. Manke Farms are Farmland Preservation Program participants. Link to La Crosse County LWRMP; <http://www.co.la-crosse.wi.us/departments/land%20con/docs/LWRMP%202012-2016.pdf>.

- ☒ 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
Cindy Koperski	03/30/2015	Manke Farms discussion on NR 151 Compliance and TRM grant
Cindy Koperski	04/09/2015	Site visit on Manke Farms

- ☒ 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).
- ☐ 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.

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
<input checked="" type="checkbox"/> Manure Storage Systems (NR 154.04(3)) R16	Code(s) 6	<input type="checkbox"/> Riparian Buffers (NR 154.04(25)) R23	Code(s)
<input checked="" type="checkbox"/> Manure Storage System Closure (NR 154.04(4)) R15	Code(s) 5,8	<input type="checkbox"/> Roofs (NR 154.04(26)) R25	Code(s)
<input type="checkbox"/> Barnyard Runoff Control Systems (NR 154.04(5)) R3	Code(s)	<input type="checkbox"/> Roof Runoff Systems (NR 154.04(27)) R24	Code(s)
<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 type="checkbox"/> Underground Outlets (NR 154.04(35)) R32	Code(s)
<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 type="checkbox"/> Wastewater Treatment Strips (NR 154.04(37)) R34	Code(s)
<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)

Small-Scale Ag. TRM Grant Application

Form 8700-300 (R 1/15)

Page 5 of 14

TRM Grant Project Name:

Manke Farm Manure Storage Improvements

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
<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 type="checkbox"/> Milking Center Waste Control Systems R17	Code(s)	<input type="checkbox"/> Shaping & Seeding R39S	Code(s)
<input checked="" 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 Detailed List of Project Activities and Sub-activities Eligible for DNR Cost Sharing		B Amount Eligible for DNR Cost Sharing (\$)
Construction Components:		
Manure Storage System Closure; 795 cubic yards fill		15,000
Manure Storage System; 12' deep x 210' diameter , concrete, sub-base, steel, excavation		437,854
Waster Transfer System; 674 lin. ft. of 12" pipe		16,058
Feed Storage Leachate; catch basin w/grassed buffer		14,300
Private Engineering Activities		70,000
1. Construction Subtotal		553,212
2. Local Force Account Activities (Entry is limited to \$10,715 or .05263 of Row 1, whichever is less.)		

Cost-Sharing:

A	B Eligible Project Totals	C Cost-Share %	D Eligible Cost-Share
3. Construction-related Subtotal: [add Rows 1 and 2]	\$ 553,212	70 %	\$ 387,248
4. Property Acquisition: Fee Title & Easement	\$	70 %	\$
5. Project Grand Totals: [add Rows 3 and 4]	\$ 553,212		\$ 387,248

Cap Test:

6. Maximum State Share: [row 5, column D or \$150,000, whichever is less]	\$ 150,000
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Small-Scale Ag. TRM Grant Application

Form 8700-300 (R 1/15)

Page 6 of 14

TRM Grant Project Name:

Manke Farm Manure Storage Improvements

State and Local Share:

7. Requested State-Share Amount (Enter Requested Grant Amount)	\$	150,000
8. Local-Share Amount: [row 5, column B less row 7]	\$	403,212

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.

Cost estimates were provided by the designing engineer from MSA Professional Services. See attached.

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	4/2015	MSA Professional Services
Obtaining required permits	7/2015	Manke Farms
Landowner contacts	8/2015	MSA Professional Services
CSA signing	9/2015	La Crosse County DLC
Bidding	10/2015	La Crosse County DLC
DNR approvals	10/2015	MSA, Manke Farms
Contract signing	1/2016	MSA, Manke Farms
BMP construction	5/2016	MSA, La Crosse County DLC
Site inspection and certification	7/2016	MSA
Project evaluation	8/2016	MSA, La Crosse County DLC
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:

Pollutant Causing Impairment:

- ☒ 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:
Bostwick Creek
- ☐ 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).

- | | |
|---|---|
| <input type="checkbox"/> Pike River and Creek | <input type="checkbox"/> Twin Rivers |
| <input type="checkbox"/> Root River | <input type="checkbox"/> Kewaunee and Ahnapee Rivers |
| <input type="checkbox"/> Oak Creek | <input type="checkbox"/> Menominee River |
| <input type="checkbox"/> Milwaukee River | <input type="checkbox"/> Fish Creek |
| <input type="checkbox"/> Sauk Creek | <input type="checkbox"/> St. Louis and Nemadji Rivers |
| <input type="checkbox"/> Sheboygan and Onion Rivers | |
| <input type="checkbox"/> Manitowoc River | <input type="checkbox"/> 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.)

Manke Farms is a dairy operation that has 183 milking and dry cows with a total mixed animal units number of 389. They plan to add an additional 55 cows to the operation bringing their total mixed animal units number up to 494. The milking cows are kept in a freestall barn with some young stock and dry cows scattered about the operation on out-lots. There is an existing manure storage facility on site that was installed prior to La Crosse County's Animal Manure Management Ordinance, adopted in 1995. Soils investigations from last October indicate that the manure storage facility most likely does not have the required separation between the bottom of the facility and bedrock and/or zone of saturation posing a potential threat to groundwater. The manure storage facility holds less than six months worth of manure and results in Manke Farms land spreading manure during periods of frozen and/or snow-covered ground. Much of the cropland that Manke's winter-spread with manure is adjacent to Bostwick Creek which is a Class I trout fishery and also classified as an Exceptional Waterbody. Most of the manure runoff from the farmstead, including feed storage leachate, is connected to Bostwick Creek through a series of concentrated flow areas, small streams and road ditches. Manke's primary farm operation is up-slope and less than 1/4 mile away from Bostwick Creek. There are small streams less than 200 yards to the East and West of the primary operation that are tributaries to Bostwick Creek. Manke Farms was issued an NOD in 2007 for a winter related manure runoff event that entered Bostwick Creek and killed 1200 trout. Manke Farms also had a manure pumping failure that resulted in a minor discharge of manure to Bostwick Creek in 2013. Manure runoff to Bostwick Creek from Manke Farms is persistent due to a lack of adequate manure storage capacity causing manure applications to cropland at times of frozen and/or snow covered ground. Attached are photos that describe the farmstead pollutant sources and winter applications of manure on Manke Farms cropland.

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 is to properly abandon the existing manure storage facility and place a 3 million gallon concrete circular storage tank that is in compliance with current standards and specifications on the east side of the farmstead. The new concrete storage tank will be liquid-tight and hold 180 days worth of manure. The existing manure storage facility will be cleaned and backfilled to grade with clean fill material and new bunker silos will be constructed. The abandonment of the existing manure storage facility should eliminate the threat to groundwater due to structural failure. The new structure will be built to current NRCS Field Office Technical Guide standards and specifications and have the required separation from the bottom of the manure storage facility and bedrock/zone of saturation. By having more capacity to store manure, the new storage structure will stop land spreading of manure during frozen and/or snow-covered ground or other times that are unfavorable due to weather conditions. In conjunction with a nutrient management plan, animal waste runoff into Bostwick Creek from Manke Farms should be greatly reduced. Currently, the feed storage area consists of silage stored in plastic bags placed on bare ground. There is no leachate collection system for the area and no buffering of "first flush" leachate. The proposed bunker silos will have a concrete base and pre-cast walls and will be liquid-tight. Leachate from the feed storage area will be collected from the feed pads and diverted to a vegetated treatment area (VTA) located in the northwest corner of the property. The Department of Land Conservation will also require that the Manke farm operation attain compliance with all the State's soil and water conservation standards (NR 151).

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?

This project is estimated to reduce the amount of phosphorus, nitrogen and bacteria entering Bostwick Creek from agricultural sources from the Manke Farms operation by approximately 70%. Manke Farms have been winter spreading manure on their flat fields which are close to the farmstead and happens to be adjacent to Bostwick Creek, having a direct impact on its water quality. Creating adequate manure storage will eliminate the need to winter spread manure and reduce runoff events to Bostwick Creek. Runoff from feed storage leachate has been undetermined as to its impact on Bostwick Creek however, there is an existing network of road ditches and concentrated flow areas that strongly indicates that leachate runoff is entering Bostwick Creek. A feed storage runoff collection system will help to reduce "first flush" pollutants from leaving the storage area and impacting Bostwick Creek. Manke Farms have submitted a nutrient management plan for their farm in 2010, 2011 and 2012. Our Department has no record of a nutrient management plan submitted in 2014 or 2015. As a condition of receiving NRCS funds under the EQIP program and to comply with La Crosse County's Manure Management Ordinance, Manke Farms will be required to develop a comprehensive nutrient management plan. Manke Farms installed a barnyard runoff control system on their heifer raising facility in 2013, which eliminated a significant source of manure runoff to Bostwick Creek. The only concern regarding NR 151 standards that needs to be addressed are areas where cattle have access to streams. Cattle crossings may need to be installed to protect stream banks from erosion. This will be addressed at a later date after the Department of Land Conservation completes a stream bank inventory in preparation of a large-scale TRM grant application for Bostwick Creek in 2016.

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.

A new manure storage facility, correctly sized and constructed, and a new feed storage leachate runoff control system is the best available option for Manke Farms if they wish to continue dairy farming and substantially comply with the State's soil and water conservation standards. In order to protect groundwater resources and reduce surface water contamination from agricultural runoff, Manke Farms will need to reconstruct their feed storage area and manure storage facility to meet current NRCS and DNR standards and specifications. This will be a major

investment for Manke Farms but one they appear committed to achieving. Due to the presence of shallow soils over bedrock and groundwater, a concrete, liquid tight manure storage facility and feed storage pad will need to be built to meet current standards. The manure storage facility will have to be built with vertical walls and has limited below-ground construction due to bedrock elevations. It is the best option considering geology and topography in the farmstead location. The manure storage facility will have adequate free-board to accommodate some additional growth in cow numbers. La Crosse County regulates farms with 500 or more animal units to meet ATCP 51 requirements. Manke Farms plan to expand to 494 animal units and remain there.

- 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.

Manke's have decided to use a Pipping Concrete Inc. structure for their new waste storage facility. Pipping Concrete Inc. has NRCS pre-approval for structural design and MSA will site the structure to comply with NRCS standards. The Waste Storage Facility Design worksheet is attached to show 180 days of storage.

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

Due to the geology and topography of the farmstead, alternative locations for the manure storage facility and feed storage leachate runoff control system was severely limited. Depth to bedrock and zones of saturation limited locations for both BMP's. The proposed locations are the best alternatives to the current arrangement of milking parlor, freestall barn, feed storage area and other existing out-buildings. Alternative fields for winter spreading of manure were considered but much of the cropland not adjacent to Bostwick Creek have winter spreading restrictions due to steepness.

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.

The Department of Land Conservation has maintained a water quality monitoring program for all watersheds in La Crosse County since 1998. The water quality monitoring protocol involves pulling grab samples from all watersheds within a 2 1/2 hour period and then taken to the La Crosse County Environmental Health Lab (State Certified) for analysis of total phosphorus and fecal coliform bacteria. Samples are collected at least 72 hours without rainfall and 2-4 times per year. Bostwick Creek has been part of the sampling scheme since 1998. The Department of Land Conservation also plans to increase its sampling protocol for Bostwick Creek to include dissolved oxygen and temperature measurements starting in 2015 in anticipation of applying for a DNR TRM grant in 2016 for Bostwick Creek. The Department has deployed two YSI D.O. and Temperature Sondes in Bostwick Creek. We believe that there is sufficient water quality data from our monitoring program to assess any water quality improvements that may result from the implementation of the BMP's listed in this application.

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.

Landowners have agreed to properly abandon the existing manure storage facility and build a new facility and transfer system that complies with NRCS Field Office Technical Guide Standards and Specifications and in a location that meets those standards. They have also agreed to treat leachate from a proposed feed storage facility in accordance with standards and specifications. Manke Farms has also applied for Federal funding (EQIP) from NRCS to help with financial assistance to install the manure storage facility. This requires that Manke Farms develop and implement a comprehensive nutrient management plan as a condition of receiving funding for the manure storage facility. See attached letter.

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).

La Crosse County - Staff, monitoring equipment and financial resources

USDA NRCS La Crosse Field Office - Financial resources and staff

☒ 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.)

La Crosse County Farmland Preservation Plan - July 2012

[http://www.co.la-crosse.wi.us/Minutes and Agendas/CertResolutionsOrdinances/2012/Sep/Ord 106.pdf](http://www.co.la-crosse.wi.us/Minutes%20and%20Agendas/CertResolutionsOrdinances/2012/Sep/Ord%20106.pdf)

Page 32, Maintain Natural Resources

Page 35, Conservation Compliance

The La Crosse County Farmland Preservation Plan supports the preservation of farms and the protection of natural resources through soil and water conservation efforts. All farms in La Crosse County in the FPP program are required to obtain compliance with the State's soil and water conservation standards. All new enrollees must be in

full compliance with those standards before being accepting into the program. Manke Farms have been in the Farmland Preservation Program for more than 15 years.

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.co.la-crosse.wi.us/code/pdf/Chapter%2023%20Animal%20Waste%20Management.pdf>
- ☐ 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.

Bostwick Creek is a valued water resource in La Crosse County. It is 13.6 miles long and has both Class II and Class I trout fisheries. The upper portions of Bostwick Creek is classified as an Exceptional Resource Water (NR 102) while the lower section is considered an Impaired Water and is being submitted to the EPA for the draft 2014 303(d) list. Bostwick Creek is mainly an agricultural and forested hills watershed. There are only a few farm operations in Bostwick Watershed that has animal units left on them. Manke Farms are one of the few dairy operations left in the watershed and being located in the headwaters, has the biggest impact on Bostwick Creek's water quality. We believe that the proposed manure storage facility and feed storage leachate runoff control system for Manke Farms will help maintain the fisheries and keep the classification as an Exceptional Resource Water.

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

Name (Please Print)

Gregg Stangl

Title

Director, Department of Land Conservation

- ☐ The required, completed Governmental Responsibility Resolution (signed in **blue ink**) (see [Attachment I](#)) is attached.

Submittal Directions

Small-Scale Ag. TRM Grant Application

Form 8700-300 (R 1/15)

Page 13 of 14

TRM Grant Project Name:

Manke Farm Manure Storage Improvements

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

Small-Scale Ag. TRM Grant Application

Form 8700-300 (R 1/15)

Page 14 of 14

TRM Grant Project Name:

Manke Farm Manure Storage Improvements

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

Thank you.

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: Manke Farms							
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	16	= 3.2	Fed. numbers in this column comply with 40 CFR s. 122.23			
Dairy Cattle	Milking & Dry Cows	1.40 x	183	= 256.2	1.43 x	183	= 261.69
	Heifers (800 lbs to 1200 lbs)	1.10 x	75	= 82.5		150	150
	Heifers (400 lbs to 800 lbs)	0.60 x	75	= 45	1.00 x		=
Beef	Steers or Cows (400 lbs to market)	1.00 x		=		2	2
	Bulls (each)	1.40 x	2	= 2.8	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 = (add all rows above) 389.7			Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals) 261.69		

☐ Check here if there are no proposed increases in animal numbers at this site within the next five years.

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: Manke Farms

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
<i>Example - Broilers (non-liquid manure):</i>		<i>0.005 x</i>	<i>150,000</i>	<i>= 750</i>	<i>0.008 x</i>	<i>150,000</i>	<i>= 1200</i>
Dairy/Beef Calves (under 400 lbs)		0.20 x	20	= 4	<i>Fed numbers in this column comply with 40 CFR s. 122.23</i>		
Dairy Cattle	Milking & Dry Cows	1.40 x	238	= 333.2	1.43 x	238	= 340.34
	Heifers (800 lbs to 1200 lbs)	1.10 x	91	= 100.1		182	182
	Heifers (400 lbs to 800 lbs)	0.60 x	91	= 54.6	1.00 x		=
Beef	Steers or Cows (400 lbs to market)	1.00 x		=		2	2
	Bulls (each)	1.40 x	2	= 2.8	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 = (add all rows above) 494.7			Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals) 340.34		

Date of Proposed Expansion (MM/YY): 05/16







Manke Farms
TRM Site Map
W2241 County Road I
Town of Bangor
La Crosse County, WI

Legend

- Owner Parcel
- Contours_10ft
- Contours_2ft
- Streams



Tax Parcel Boundary is approximate and does not take the place of a professional survey



Surface Water Data Viewer Map



Legend

NPS Rank Lines

- High Stream
- Medium Stream
- Low Stream
- Not Ranked

NPS Rank Areas

- High Lake
- Not Ranked

Impaired Rivers and Streams

Impaired Lakes

Outstanding and Exceptional S

- Exceptional
- Outstanding

Locational Information (line)

- COMPLETE
- CONFLICT

Outstanding and Exceptional L

- Exceptional
- Outstanding

Locational Information (area)

- COMPLETE
- CONFLICT

Navigability Determinations

- Yes
- Yes with Agricultural Exemption
- No

Navigability Determinations (O

Notes

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM
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Results (17)

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 [Table View](#) |
 [Charting View](#) |
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[Select All](#) | [Select None](#)

Bostwick Creek (AU ID 359671)

 Assessed Waterbody [Metadata](#) [Water Detail](#)

Bostwick Creek (Not Ranked)

 NPS Rank [Metadata](#)

Bostwick Creek

 Outstanding and Exceptional Stream [Metadata](#)

Locational Information (line), Bostwick Creek

 Locational Information (line) [Metadata](#)

Watershed ID: 127334

 Wisconsin Buffer Initiative Watersheds [Metadata](#)

Bostwick Creek

 ASNRI Outstanding and Exceptional Stream [Metadata](#)

Bostwick Creek

 ASNRI Trout Stream [Metadata](#)

Bostwick Creek

 ASNRI Endangered Threatened or Special Concern Water [Metadata](#)

Bostwick Creek

 ASNRI Endangered Threatened or Special Concern Water [Metadata](#)

070400060401, 29985 acres

 12 Digit HUC (Sub-Watershed) [Metadata](#)

St. Joseph

 12k USGS Quad Index [Metadata](#)

Lower La Crosse River, BL04

 Watershed [Metadata](#)
[About the Watershed](#)
[Waters in Watershed](#)

Bostwick Creek, (WBIC 1650900)

 River or Stream [Metadata](#)
[About the Water](#)

Unnamed, (WBIC 5027051)

 River or Stream [Metadata](#)
[About the Water](#)

La Crosse

 County

0704000604

 10 Digit HUC (Watershed) [Metadata](#)

St. Joseph

 24k USGS Quad Index [Metadata](#)

Home

Map Layers

Results (17)



PROJECT NO.:	PROJECT NO.	SCALE: AS SHOWN	NO.	DATE	REVISION	BY
PROJECT DATE:		DRAWN BY: INIT	-	-	-	-
F.B.:		CHECKED BY: INIT	-	-	-	-
PLOT DATE: 3/27/15, P:\16600a\16600a\16603\16603000\CADD\C3D\Prelim Layout.dwg						



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Web Address: www.msa-ps.com
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SSM - ANSI D

PROJECT NAME
CLIENT NAME
LOCATION

FILE NO.
PROJECT NO.
SHEET

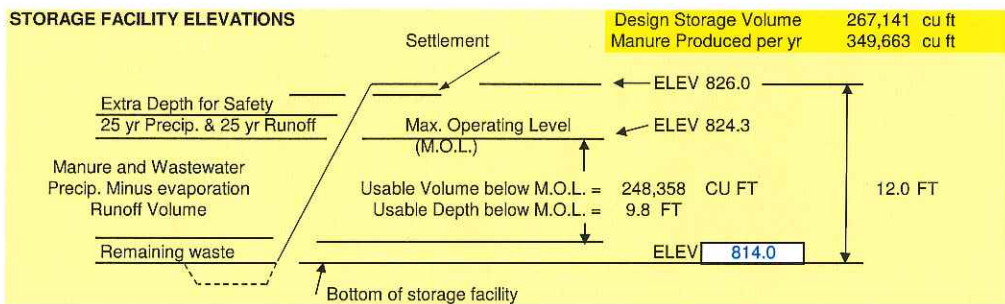
WASTE STORAGE FACILITY DESIGN - 313 STANDARD

CLIENT: Manke Farms		COUNTY: LA CROSSE		DATE: 4/15/15	
DSN BY: JPS		CHK BY: _____		DATE: _____	
COMMENTS:					
ANIMAL TYPE> 1 (1=DAIRY, 2=BEEF, 3=VEAL, 4=SWINE(finishing), 5=SWINE(farrowing), 6=POULTRY, 0=OTHER)					
For Dairy: Rolling Herd Average 25,000 lbs/cow/yr				Is it a stanchion barn? N (Y or N)	
MANURE AND WASTEWATER					
LIVESTOCK		AVG. WT.	DAILY OUTPUT, CU FT		
KIND	NUMBER	PER HEAD	MANURE	BEDDING	TOTAL
Cows	205	1,400	2.53	0.5	619.1
Dry Cows	33	1,200	1.92	0.0	63.4
Heifers	182	900	1.44	0.0	262.1
Calves	20	200	0.32	0.0	6.4
Bulls	2	2200	3.52	0.0	7.0
WASTEWATER:		1497	GAL/DAY		200.1 CU FT/DAY
TOTAL DAILY VOLUME:		1158.0 CU FT / DAY			
Total Manure and Wastewater					1,559,194 GALLONS
Expected % solids in waste (Includes runoff and precip.)					208,448 CU FT
					8.8 %

RUNOFF VOLUME					
MONTHLY RUNOFF					
RCN	98	16.4 IN.	X	21,600 Ft ² Drainage Area=	29,520 CU FT
				(Do not include storage area)	
25-Year, 24-HOUR RUNOFF					
RCN	98	4.66 IN.	X	21,600 Ft ² Drainage Area=	8,394 CU FT
				(Do not include storage area)	
Total for Manure, Milking Center, Runoff Volume, and 25 Yr Runoff					1,842,791 GALLONS
					246,362 CU FT

PRECIPITATION		Does the facility collect precipitation? (No roof or lid) 1 (1 for yes, 2 for no)	
Precipitation minus evaporation		Beginning Month for Precip. Collection 11 (1=Jan, 2=Feb, etc.)	
Average Precipitation on Storage Surface		9.7 INCH	0.8 FT
Average Evaporation from Storage Surface		-	0.4 FT
Net Precipitation on Storage Surface		4.9 INCH	0.4 FT
25-Yr, 24-Hr Precip on Storage Surface		4.9 INCH	0.4 FT

REMAINING WASTE	(If no sump, use these minimums: ponds -2', tanks -1') 0.5 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.) 9.76 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)
CHOOSE A BOTTOM WIDTH	10 FT
BOTTOM LENGTH REQUIRED	N.A. FT
ROUND STORAGE BOTTOM DIAMETER REQUIRED	180 FT

STORAGE SIZING SUMMARY			
RECTANGULAR	BOTTOM SIDE 1:	10 FT	
	BOTTOM SIDE 2:	N.A. FT	
	M.O.L. VOLUME PROVIDED:	0 CU FT	0 GALLONS
	DAYS STORAGE PROVIDED:	0 DAYS	
	TOTAL VOLUME FROM BOTTOM TO SETTLED TOP:	0 CU FT	0 GALLONS
ROUND	CHOOSE BOTTOM:	180 FT DIAM	
	M.O.L. VOLUME PROVIDED:	248,358 CU FT	1,857,716 GALLONS
	DAYS STORAGE PROVIDED:	180 DAYS	
	TOTAL VOLUME FROM BOTTOM TO SETTLED TOP:	305,304 CU FT	2,283,671 GALLONS

Title: Leachate Calculations
 Farm Name: Manke Farms
 Project No. 16603000
 Date: 3/16/2015

Feed Bunk Information

Bunk Width: 120 ft.
 Bunk Length: 150 ft.
 Area: 18000 sq. ft.
 Wall Height: 8.5 ft.
 Storage Capacity: 153000 cu. ft.
 Additional Impervious Surface: 3600 sq. ft.
 Total Area: 21600 sq. ft.
 Leachate Collection Volume: 2295 cu. ft.
 17167 gallons (annual)

Runoff Information

1st Flush Collection	Volume per Event		Annual Collection Volume		180 Day Collection Volume (Annual Volume / 2)		Actual 180 Day Collection Volume		VTA Size	
inches	cu. ft.	gallons	cu. ft.	gallons	cu. ft.	gallons	cu. ft.	gallons	2.5 ft seperation	5 ft seperation
0.10	150	1122	15246	114040	7623	57020	7128	53317	18000	15300
0.15	225	1683	20196	151066	10098	75533	9270	69340	15300	12600
0.20	300	2244	24156	180687	12078	90343	10764	80515	12600	9900
0.25	375	2805	27324	204384	13662	102192	11808	88324	9900	7200
Collect Everything			63360	473933	31680	236966	19332	144603	N/A	N/A

Notes: VTA size can be reduced by half if designed for less than 1 inch of flow for 25% of the peak flowrate

**Local Climatological Report
 Madison, WI**

**180 Day Storage Collection
 November thru April**

Collect Everything	35.2	inches	Collect Everything	10.74	inches
Collect .25"	15.18	inches	Collect .25"	6.56	inches
Collect .20"	13.42	inches	Collect .20"	5.98	inches
Collect .15"	11.22	inches	Collect .15"	5.15	inches
Collect .10"	8.47	inches	Collect .10"	3.96	inches
Collect .5"	5.02	inches	Collect .05"	2.44	inches

Manke Farms

Price Estimate

BUNKER SILOS (ASSUMING 3 BUILT)				
	<u>UNIT</u>	<u>QUANTITIES</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
8.5' T WALL	L.F.	720	\$75.00	\$54,000.00
SUBBASE FOR CONCRETE	C.Y.	400	\$33.00	\$13,200.00
4000 PSI CONCRETE PLACEMENT (6-INCH THICK) STEEL INC.	S.F.	21600	\$6.00	\$129,600.00
HYDROPHILIC CAULK	L.F.	1020	\$1.47	\$1,499.40
MANHOLE CATCH BASIN		1	\$1,000.00	\$1,000.00
6" GRAVITY TO RECEPTION	L.F.	150	\$27.34	\$4,101.00
10" GRAVITY TO VTA	L.F.	285	\$31.59	\$9,003.15
MANHOLE BOOTS		2	\$100.00	\$200.00
PIPPING CONCRETE MANURE TANK				
12' DEEP X 210' DIA.		1	\$318,000.00	\$318,000.00
SUBBASE FOR CONCRETE	C.Y.	642	\$33.00	\$21,186.00
PIPING TO MANURE PIT				
12" DR11	L.F.	675	\$23.79	\$16,058.25
6" SCH. 40 PVC	L.F.	675	\$3.75	\$2,531.25
3" SCH. 40 PVC	L.F.	675	\$2.00	\$1,350.00
FITTINGS				\$500.00
INSTALLATION COSTS	L.F.	675	\$40.00	\$27,000.00
RECEPTION PIT/ TRANSFER				
PUMP SYSTEM (JAMESWAY OR KOMRO)		1	\$40,000.00	\$40,000.00
ABANDONMENT OF EXISTING RECEPTION		1	\$15,000.00	\$15,000.00
RECEPTION PIT		1	\$11,000.00	\$11,000.00
STORM WATER IMPROVEMENTS				
GRADING		1	\$3,000.00	\$3,000.00
POND STRUCTURE AND PIPING		1	\$2,000.00	\$2,000.00
EROSION CONTROL		1	\$1,500.00	\$1,500.00
ABANDONMENT OF EXISTING STORMWATER PIPE		1	\$500.00	\$500.00
MISC.		1	\$2,000.00	\$2,000.00
EXCAVATION COSTS				
MANURE PIT EXCAVATION, COMMON (CUT)	C.Y.	6,262	\$14.00	\$87,668.00
FILL MATERIAL PLACEMENT, MANURE PIT	C.Y.	795		(FOR INFO ONLY)
FILL MATERIAL PLACEMENT, BUNKER SILOS	C.Y.	4400		(FOR INFO ONLY)
EXISTING MANURE LAGOON, WASTE REMOVAL	C.Y.	889	\$6.00	\$5,334.00
NORTH LAGOON BERM	C.Y.	1511	\$12.00	\$18,132.00
TOTAL				\$745,363.05
CONTINGENCIES (10%)				\$74,536.31
GRAND TOTAL				\$819,899.36

*

This Document was submitted by MSA Professional Services of Baraboo, Wi. Some of the listed items are not cost-shareable by Administrative Rule.



PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL

Sheet 1 of 1
Project Manke Farms Comp. by JPS
Date 4/15/15 Ckd. by _____
Proj. No. *16603000

180 Day Manure Storage Calculation

See Attachment For Animal Numbers
(Total Facility)

	Source
Manure / Wastewater \Rightarrow	1,559,194 Gallons (NRCS 313 WKST)
25yr / 24hr Storm \Rightarrow	105,790 Gallons (4.9 inches NRCS 313 WKST)
Precip - Evap \Rightarrow	105,790 Gallons (4.9 inches NRCS 313 WKST)
Leachate Collection \Rightarrow	90,343 Gallons (MSA Leachate Collection WKST)

Total 1,861,117 Gallons for M.O.L. Volume

Pipping Concrete 210' ϕ w/ramp holds 2.62 million gallons

Storage Capacity = 2.62 million gallons $\begin{matrix} \nearrow \\ \searrow \end{matrix}$ $\begin{matrix} \text{(180 days)} \\ \text{Storage Needs} = 1.86 \text{ million gallons} \end{matrix}$

Water Quality Assessment for Bostwick Creek

Basins: La Crosse County contains two primary watershed basins; the Black River Basin and the La Crosse-Bad Axe River Basin. Both of these basins drain to the Upper Mississippi River Watershed Basin.

Watersheds: La Crosse County has many diverse sub-watersheds. Many of them are considered to be high value resources that support cold- water sport fisheries. Other watersheds often support warm-water sport fisheries and receive high levels of recreation from fishing to canoeing and kayaking as well as swimming and recreational boating.

Water Quality Goals and Standards: The PR&D Committee has established goals for the County's water resources that are in line with other County Departments, State and Federal Agencies and based on scientific research. The committee has established the following water quality parameters; total phosphorus- 0.05 mg/L or less, fecal coliform bacteria-1000 colonies/100 ml and dissolved oxygen-not less than 5 mg/L of water at any time of the year, not less than 6 mg/L of water for streams supporting a cold water sport fishery and no less than 7 mg/L of water during trout spawning seasons.

Water Quality Monitoring-Performance Standards: La Crosse County has operated an extensive stream water quality monitoring station since 1995. The DLC staff also regularly monitors 27 of the County's largest sub-watersheds to watch for possible pollution from agricultural sources and get a general idea of the overall health of the County's streams.

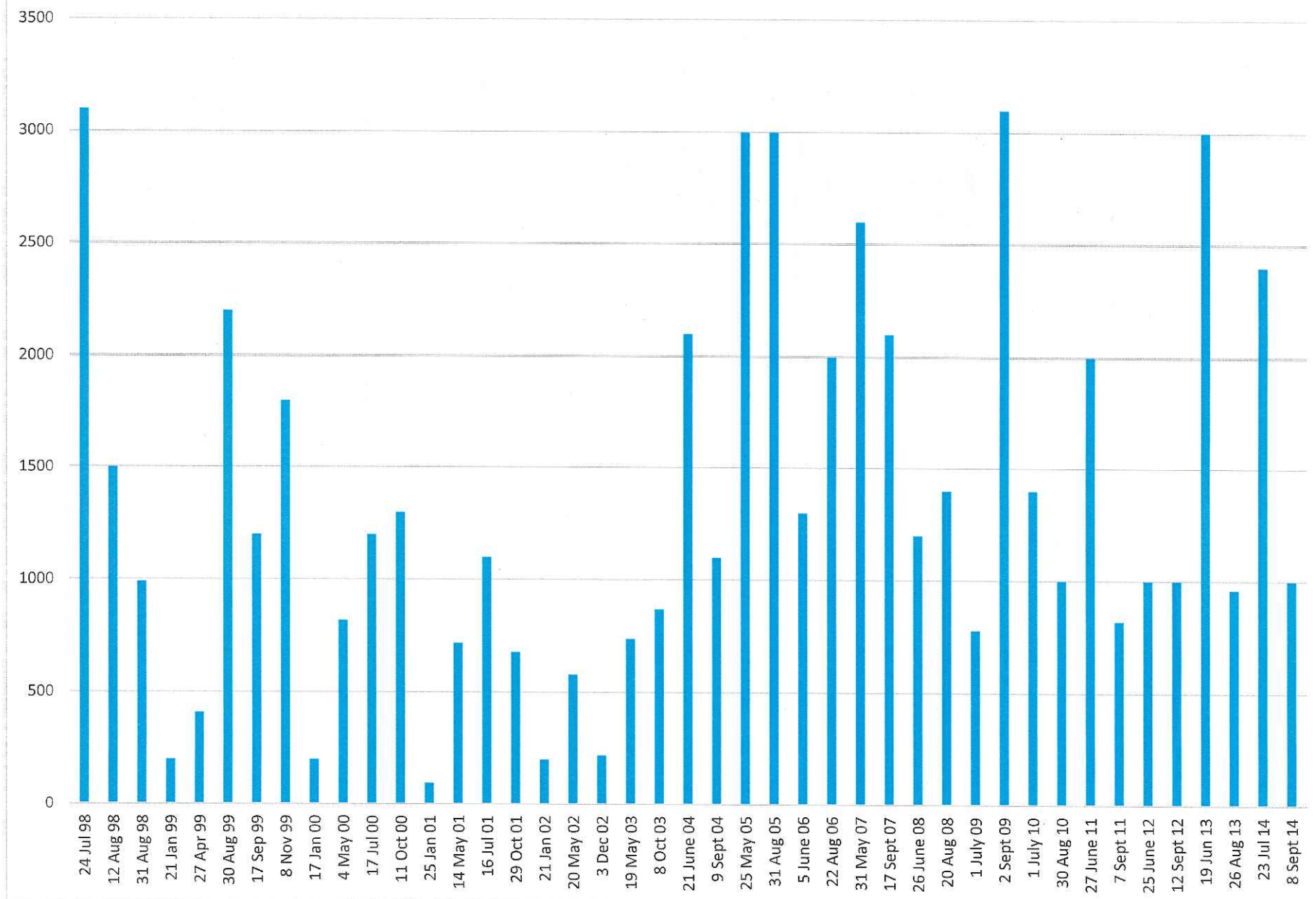
Topography, Land Use, Soil Erosion Conditions: La Crosse County is located in the heart of Wisconsin's drift-less region. It consists of steep bluffs and deep coulees covered by rich and fertile, wind-blown silt loam. There are 170,000 acres of farmland in the county, most of which is cropped for feeding dairy cattle or for cash grain. Much of the farmed acres are steep slopes that are susceptible to soil erosion and animal waste runoff. It is estimated that the County's average erosion rate is 4.2 tons/ac/yr compared to the County's average "tolerable" soil loss rate of 4.5 tons/ac/yr.

Water Quality Assessment Schedule: The DLC has established a schedule for monitoring the County's water resources over the next five years and have estimated the associated costs at \$57,411.00.

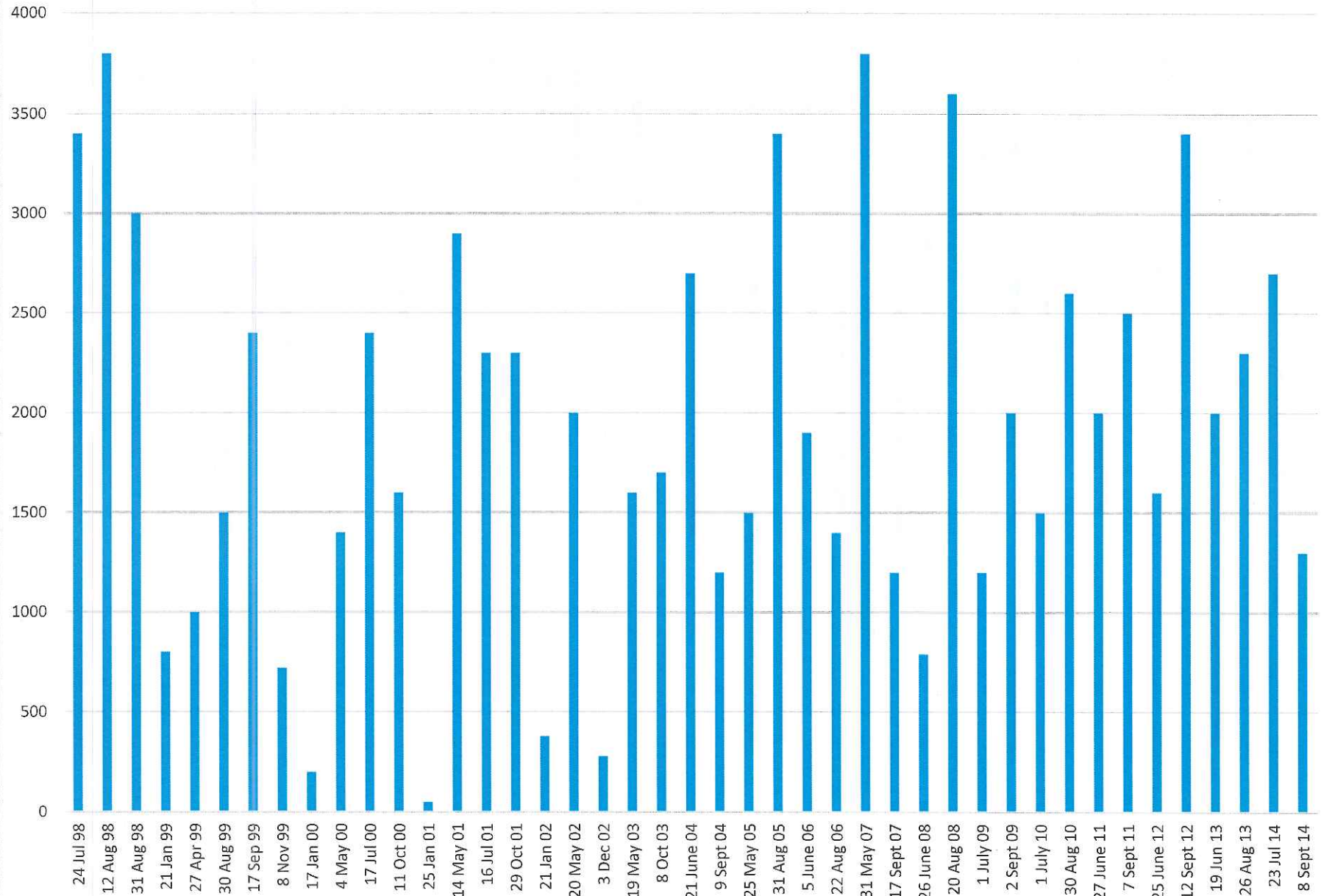
Bostwick Creek Protocol: The DLC will begin weekly grab samples in Bostwick Creek beginning April 13th, 2015 from Old County Highway M, County Highway YY and County Highway M. Grab samples will be sent to the La Crosse County Environmental Health Lab for analysis of total phosphorus, total suspended solids and fecal coliform bacteria. Two YSI D.O. Sondes will be placed in Bostwick Creek at Swamp Road and County Highway M. The sondes will continuously monitor dissolved oxygen and water temperature.

Both sampling schemes will continue through a period of time till a large-scale TRM grant project can be implemented with several years of post-construction monitoring.

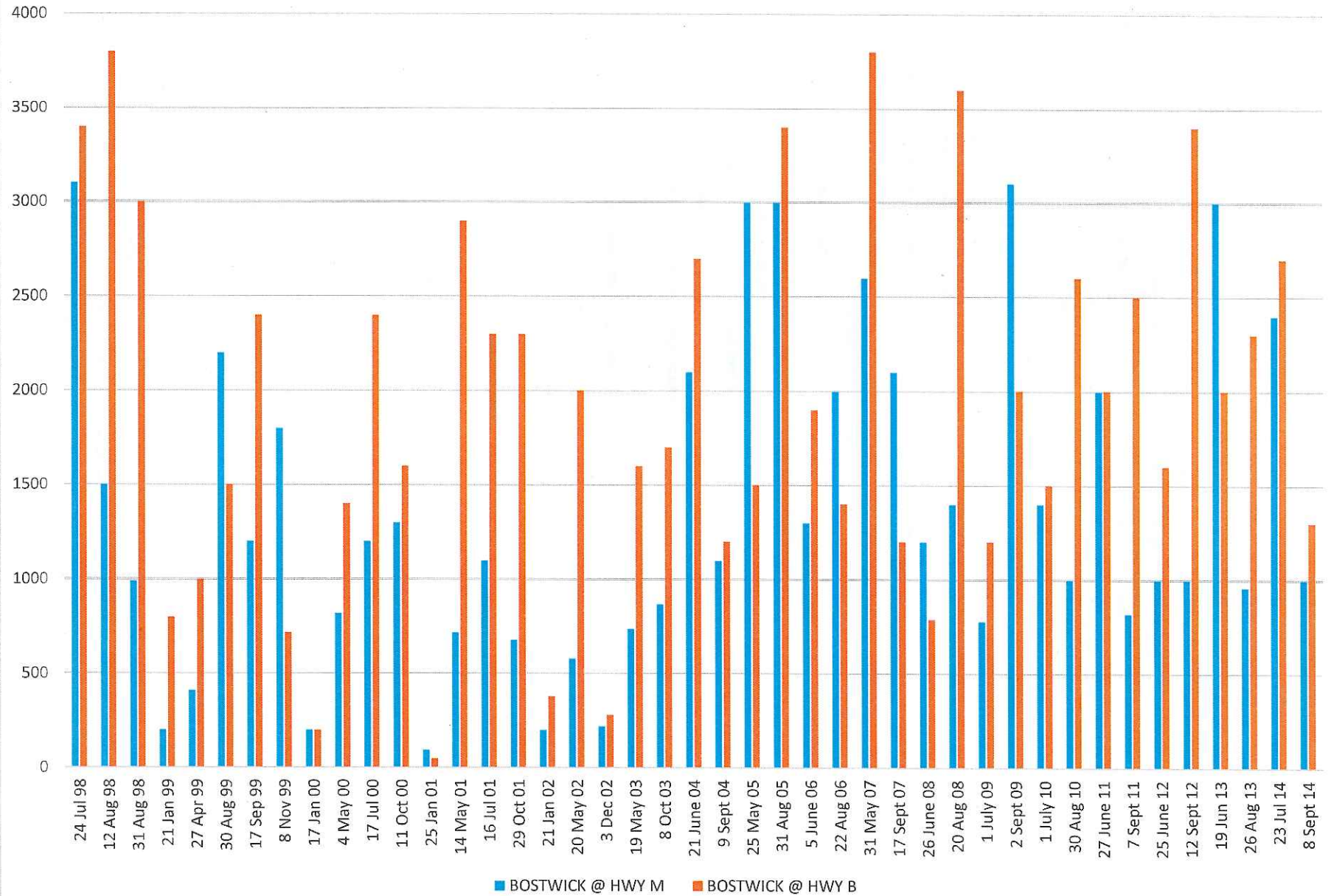
Fecal Coliform Bacteria from County-wide Sampling, Bostwick @ CTH M



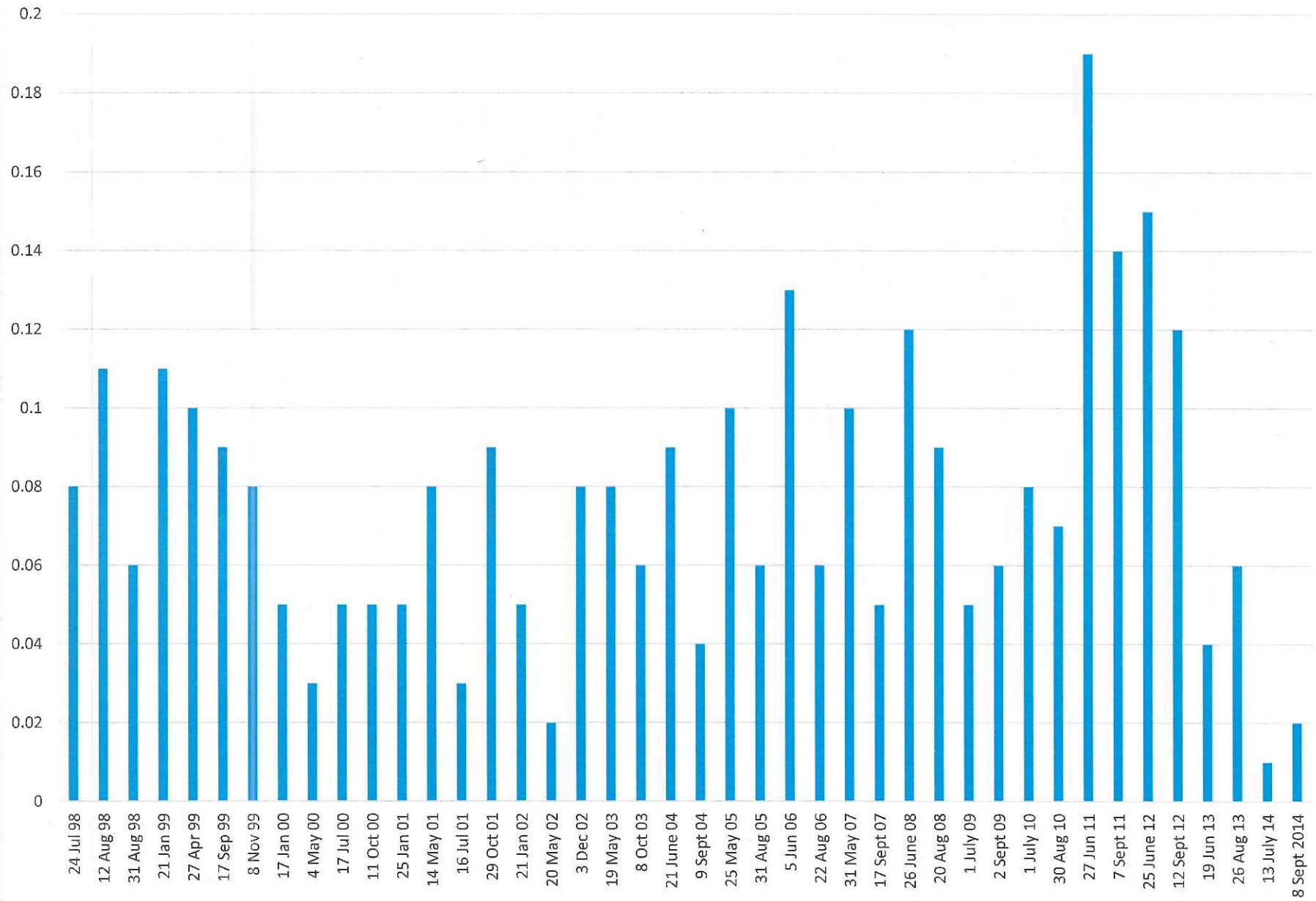
Fecal Coliform Bacteria from County-wide Sampling Bostwick @ CTH B



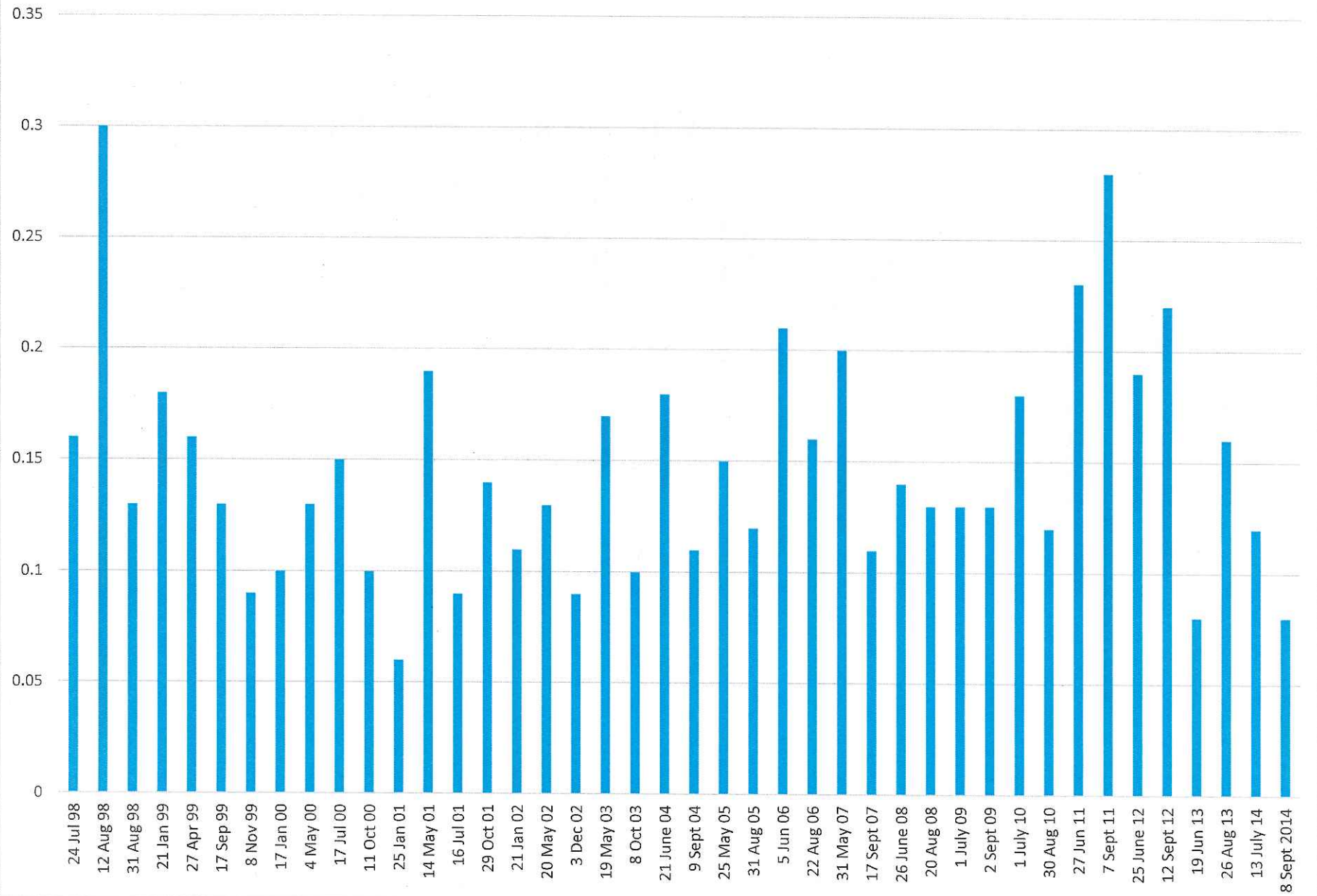
Fecal Coliform Bacteria from County-wide Sampling @ CTH M & CTH B



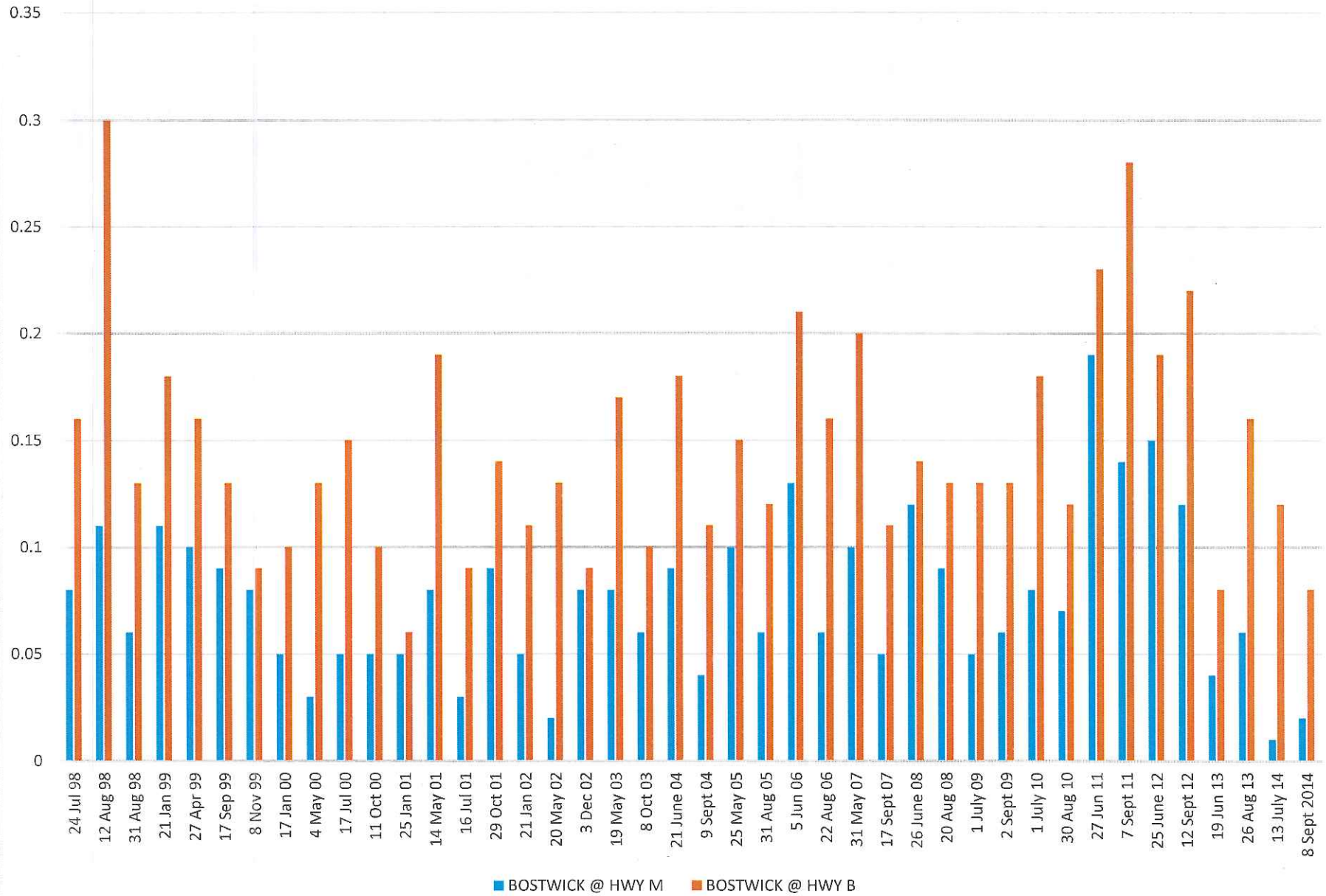
Total Phosphorus from County-wide Sampling @ CTH M



Total Phosphorus from County-wide Sampling @ CTH B



Total Phosphorus from County-wide Sampling @ CTH M & CTH B



Fecal Coliform bacteria

	24 Jul 98	12 Aug 98	31 Aug 98	21 Jan 99	27 Apr 99	30 Aug 99	17 Sep 99	8 Nov 99	17 Jan 00	4 May 00	17 Jul 00
BOSTWICK @ HWY M	3100	1500	990	200	410	2200	1200	1800	200	820	1200
	24 Jul 98	12 Aug 98	31 Aug 98	21 Jan 99	27 Apr 99	30 Aug 99	17 Sep 99	8 Nov 99	17 Jan 00	4 May 00	17 Jul 00
BOSTWICK @ HWY B	3400	3800	3000	800	1000	1500	2400	720	200	1400	2400

Total Phosphorus

	24 Jul 98	12 Aug 98	31 Aug 98	21 Jan 99	27 Apr 99	17 Sep 99	8 Nov 99	17 Jan 00	4 May 00	17 Jul 00	11 Oct 00
BOSTWICK @ HWY M	0.08	0.11	0.06	0.11	0.1	0.09	0.080	0.050	0.030	0.050	0.050
	24 Jul 98	12 Aug 98	31 Aug 98	21 Jan 99	27 Apr 99	17 Sep 99	8 Nov 99	17 Jan 00	4 May 00	17 Jul 00	11 Oct 00
BOSTWICK @ HWY B	0.16	0.3	0.13	0.18	0.16	0.13	0.090	0.100	0.130	0.150	0.100

11 Oct 00	25 Jan 01	14 May 01	16 Jul 01	29 Oct 01	21 Jan 02	20 May 02	3 Dec 02	19 May 03	8 Oct 03	21 June 04	9 Sept 04	25 May 05
1300	95	720	1100	680	200	580	220	740	870	2100	1100	3000
11 Oct 00	25 Jan 01	14 May 01	16 Jul 01	29 Oct 01	21 Jan 02	20 May 02	3 Dec 02	19 May 03	8 Oct 03	21 June 04	9 Sept 04	25 May 05
1600	50	2900	2300	2300	380	2000	280	1600	1700	2700	1200	1500

25 Jan 01	14 May 01	16 Jul 01	29 Oct 01	21 Jan 02	20 May 02	3 Dec 02	19 May 03	8 Oct 03	21 June 04	9 Sept 04	25 May 05	31 Aug 05
0.050	0.080	0.030	0.090	0.050	0.020	0.080	0.080	0.060	0.090	0.040	0.100	0.060
25 Jan 01	14 May 01	16 Jul 01	29 Oct 01	21 Jan 02	20 May 02	3 Dec 02	19 May 03	8 Oct 03	21 June 04	9 Sept 04	25 May 05	31 Aug 05
0.060	0.190	0.090	0.140	0.110	0.130	0.090	0.170	0.100	0.180	0.110	0.150	0.120

31 Aug 05	5 June 06	22 Aug 06	31 May 07	17 Sept 07	26 June 08	20 Aug 08	1 July 09	2 Sept 09	1 July 10	30 Aug 10	27 June 11	7 Sept 11
3000	1300	2000	2600	2100	1200	1400	780	3100	1400	1000	2000	820
31 Aug 05	5 June 06	22 Aug 06	31 May 07	17 Sept 07	26 June 08	20 Aug 08	1 July 09	2 Sept 09	1 July 10	30 Aug 10	27 June 11	7 Sept 11
3400	1900	1400	3800	1200	790	3600	1200	2000	1500	2600	2000	2500

5 Jun 06	22 Aug 06	31 May 07	17 Sept 07	26 June 08	20 Aug 08	1 July 09	2 Sept 09	1 July 10	30 Aug 10	27 Jun 11	7 Sept 11	25 June 12
0.130	0.060	0.100	0.050	0.120	0.090	0.050	0.060	0.080	0.070	0.190	0.140	0.150
5 Jun 06	22 Aug 06	31 May 07	17 Sept 07	26 June 08	20 Aug 08	1 July 09	2 Sept 09	1 July 10	30 Aug 10	27 Jun 11	7 Sept 11	25 June 12
0.210	0.160	0.200	0.110	0.140	0.130	0.130	0.130	0.180	0.120	0.230	0.280	0.190

25 June 12	12 Sept 12	19 Jun 13	26 Aug 13	23 Jul 14	8 Sept 14
1000	1000	3000	960	2400	1000
25 June 12	12 Sept 12	19 Jun 13	26 Aug 13	23 Jul 14	8 Sept 14
1600	3400	2000	2300	2700	1300

12 Sept 12	19 Jun 13	26 Aug 13	13 July 14	8 Sept 2014
0.120	0.040	0.060	0.010	0.020
12 Sept 12	19 Jun 13	26 Aug 13	13 July 14	8 Sept 2014
0.220	0.080	0.160	0.120	0.080

Fecal Coliform bacteria

BOSTWICK @ HWY M
BOSTWICK @ HWY B

24 Jul 98	12 Aug 98
3100	1500
3400	3800

Total Phosphorus

BOSTWICK @ HWY M
BOSTWICK @ HWY B

24 Jul 98	12 Aug 98
0.08	0.11
0.16	0.3

31 Aug 98	21 Jan 99	27 Apr 99	30 Aug 99	17 Sep 99	8 Nov 99	17 Jan 00	4 May 00	17 Jul 00	11 Oct 00	25 Jan 01	14 May 01	16 Jul 01
990	200	410	2200	1200	1800	200	820	1200	1300	95	720	1100
3000	800	1000	1500	2400	720	200	1400	2400	1600	50	2900	2300

31 Aug 98	21 Jan 99	27 Apr 99	17 Sep 99	8 Nov 99	17 Jan 00	4 May 00	17 Jul 00	11 Oct 00	25 Jan 01	14 May 01	16 Jul 01	29 Oct 01
0.06	0.11	0.1	0.09	0.080	0.050	0.030	0.050	0.050	0.050	0.080	0.030	0.090
0.13	0.18	0.16	0.13	0.090	0.100	0.130	0.150	0.100	0.060	0.190	0.090	0.140

29 Oct 01	21 Jan 02	20 May 02	3 Dec 02	19 May 03	8 Oct 03	21 June 04	9 Sept 04	25 May 05	31 Aug 05	5 June 06	22 Aug 06	31 May 07
680	200	580	220	740	870	2100	1100	3000	3000	1300	2000	2600
2300	380	2000	280	1600	1700	2700	1200	1500	3400	1900	1400	3800

21 Jan 02	20 May 02	3 Dec 02	19 May 03	8 Oct 03	21 June 04	9 Sept 04	25 May 05	31 Aug 05	5 Jun 06	22 Aug 06	31 May 07	17 Sept 07
0.050	0.020	0.080	0.080	0.060	0.090	0.040	0.100	0.060	0.130	0.060	0.100	0.050
0.110	0.130	0.090	0.170	0.100	0.180	0.110	0.150	0.120	0.210	0.160	0.200	0.110

17 Sept 07	26 June 08	20 Aug 08	1 July 09	2 Sept 09	1 July 10	30 Aug 10	27 June 11	7 Sept 11	25 June 12	12 Sept 12	19 Jun 13	26 Aug 13
2100	1200	1400	780	3100	1400	1000	2000	820	1000	1000	3000	960
1200	790	3600	1200	2000	1500	2600	2000	2500	1600	3400	2000	2300

26 June 08	20 Aug 08	1 July 09	2 Sept 09	1 July 10	30 Aug 10	27 Jun 11	7 Sept 11	25 June 12	12 Sept 12	19 Jun 13	26 Aug 13	13 July 14
0.120	0.090	0.050	0.060	0.080	0.070	0.190	0.140	0.150	0.120	0.040	0.060	0.010
0.140	0.130	0.130	0.130	0.180	0.120	0.230	0.280	0.190	0.220	0.080	0.160	0.120

23 Jul 14	8 Sept 14
2400	1000
2700	1300

8 Sept 2014
0.020
0.080

4/9/15

La Crosse County
Department of Land Conservation
400 4th St N, Room 3270
La Crosse, Wi. 54601

To Whom It Concerns;

I agree to install and maintain the proposed manure storage facility, manure transfer system and feed storage leachate treatment system if the applied for DNR Targeted Resource Management Grant funds are made available to me as outlined in an approved cost share agreement between Manke Farms and the La Crosse County Department of Land Conservation.

I also agree to maintain compliance with the NR 151 Agriculture Performance Standards upon receipt of the grant funds.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ken Manke".

Ken Manke
Manke Farms



Natural Resources Conservation Service
Onalaska Service Center
1107 Riders Club Road
Onalaska, WI 53650-2079
Phone: (608) 782-0180

April 9, 2015

To: Gregg Stangl, La Crosse County Land Conservation Department
County Conservationist

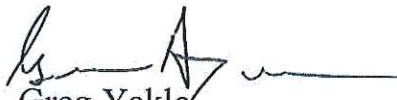
From: Greg Yakle, District Conservationist, USDA-NRCS, La Crosse County

Re: Manke Farms WI DNR Targeted Resource Management Grant

We would be in 100% support of a TRM grant for Manke Farms to develop and apply a Livestock Waste Management System for their farming operation in La Crosse County. As we have been partners in several watershed and TRM grant projects in the past that have worked well to provide benefits to water and soil quality, I have no doubt we can continue this relationship for the Manke Farms system.

Manke Farms plan on applying for technical and financial assistance through USDA-NRCS Environmental Quality Incentive Program. Our programs will work well together to correct a resource situation which is currently reducing the quality of local surface waters.

Let me know how we can be of further assistance with this project in the future.


Greg Yakle
608/782-0180 ext. 111



RESOLUTION # 62-11/08

TO: HONORABLE MEMBERS OF THE LA CROSSE COUNTY BOARD OF SUPERVISORS

ITEM # 22/11

BOARD ACTION

Adopted: 11-10-08

For: 32

Against: 3

Abs/Excd: 3

Vote Req: 3

Other Action:

PLANNING RESOURCES & DEVELOPMENT COMMITTEE ACTION

Adopted: 10/27/08

For: 6

Against: —

Abs/Excd: 2

RE: APPROVAL TO REQUEST FUNDING THROUGH THE TARGETED RUNOFF MANAGEMENT OR URBAN NON-POINT SOURCE (POLLUTION) & STORM WATER GRANT PROGRAMS

WHEREAS, La Crosse County Land Conservation hereby requests financial assistance under s. 281.65 or 281.66, Wis. Stats., and chs. NR 151, 153, and 155, Wis. Admin. Code, for the purpose of implementing measures to meet non-point source water pollution abatement needs in area-wide water quality management plans or with one or more components specified in s. 281.65 or 281.66, Wis. Stats.

NOW THEREFORE BE IT RESOLVED, that the La Crosse County Board hereby authorizes the following officials or employees to act on its behalf to:

Activity	Name of Official or Employees
1. sign and submit a grant application	Gregg Stangl
2. sign grant agreement between the local government and the DNR	Steve Doyle
3. submit quarterly and final reports	Gregg Stangl
4. request grant reimbursement	Steve Doyle
5. sign and submit an Environment Hazard Assessment form	Bruce Olson

FISCAL NOTE: No financial impact to La Crosse County.

Date: 10-27-08

Thomas J. Raub
PLANNING RESOURCES &
DEVELOPMENT COMMITTEE CHAIR(Vice)

Cheryl A. Stephen
RECORDING CLERK

	Recommended	Not Recommended	Reviewed Only	
Co. Admin.	<u>SO</u>			Requested By: Gregg Stangl
Fin. Director	<u>BT</u>			Date Requested: October 2, 2008
Corp. Counsel	<u>DLL</u>			Drafted By: Corporation Counsel

Adopted by the La Crosse County Board this 10 Day of November, 2008.

Created by La Crosse County Last printed 10/15/2008 10:26:00 AM

STATE OF WISCONSIN COUNTY OF LA CROSSE

I, Marion I. Naegle, County Clerk of La Crosse County do hereby certify that this document is a true and correct copy of the original resolution required by law to be in my custody and which the County Board of Supervisors of La Crosse County adopted at a meeting held on the 10th day of November 2008.

Marion I. Naegle
Marion I. Naegle, La Crosse County Clerk