

**COUNTY OF EAU CLAIRE
EAU CLAIRE, WISCONSIN
"NOTICE OF PUBLIC MEETING"**

In Accordance with the provisions of Chapter 19, subchapter IV, Wisconsin Statutes,
NOTICE IS HEREBY GIVEN of the following public meeting:

THE LAND CONSERVATION COMMISSION
WILL MEET ON MONDAY, MAY 16, 2016 **TIME:** 5:15 P.M.
PLACE: AGRICULTURE & RESOURCE CENTER
227 1ST ST. WEST, ALTOONA, WI 54720

OPEN SESSION

AGENDA

1. Call to Order
2. Election of Officers – *Discussion/Action*
3. Appointment of Clerk – *Discussion/Action*
4. Brief LCC Orientation - *Discussion/Action*
5. Election of WI Land+Water Area Representatives – *Discussion/Action*
6. Public Input Session (30 minute maximum) – *Discussion*
Please Note: Limit of 3 minutes per speaker
7. Approve Minutes – *Discussion/Action* **Pages 5-7**
8. Review Vouchers – *Discussion* **Page 8**
9. County Cost-Share Applications and Ledger Update – *Discussion/Action*
10. Land Stewardship Subcommittee Nominations – *Discussion/Action*
11. Review Title 17 for Any Needed Updates – *Discussion*
12. Agency Updates and Committee Member Reports – *Discussion* **Pages 9-12**
13. Next Meeting Date – *Discussion/Action*
14. Adjourn – *Discussion/Action*

PLEASE NOTE: *Upon reasonable notice, efforts will be made to accommodate the needs of individuals with disabilities through sign language, interpreters or other auxiliary aids. For additional information or to request the service, contact the County ADA Coordinator at 839-4710, (Fax:) 839-1669 or 839-4735, tty: use Relay (711), or by writing to the ADA Coordinator, Human Resources, Eau Claire County Courthouse, 721 Oxford Avenue, Eau Claire, WI 54703.*

RECEIVED _____

POSTED _____



**Eau Claire County
DEPARTMENT OF PLANNING
AND DEVELOPMENT**

**Land Conservation Division
227 First Street West, Altoona, WI 54720
Phone: (715)839-6226 ♦ Fax: (715)839-6277
E-mail: lcd@co.eau-claire.wi.us**

Housing & Community Development
839-6240
Emergency Services Management
839-4736
Land Information
839-4742
Land Use Controls
839-4743
Building Inspection
839-2944
Planning
839-5055

May 11, 2016

TO: Land Conservation Commission
FROM: Kelly Jacobs
LCD Supervisor
RE: Land Conservation Meeting – Monday, May 16, 2016

Election of Officers – Discussion/Action.

Appointment of Clerk – Discussion/Action.

Brief LCC Orientation – Discussion/Action. Packets to be provided at the meeting for LCC members who do not attend the May 12, 2016 area training session.

Election of WI Land+Water Area Representatives – Discussion/Action.

Public Input Session (30 minute maximum) – Discussion. Limit of 3 minutes per speaker.

Minutes – Discussion/Action. Approve the enclosed 4/11/16 LCC Minutes.

Vouchers – Discussion. Listing for April is enclosed.

County Cost-Share – Discussion/Action. Copy of cost-share contract to be provided at the meeting. Anticipated contract with Mel & Shawn Seuferer for Prescribed Grazing practices.

Land Stewardship Subcommittee Nominations – Discussion. This item was carried forward from the previous meeting agenda. Recommendations will come from the Land Stewardship Subcommittee's May 18, 2016 meeting. Any additional suggestions for subcommittee membership can be brought up at this time for their review. A final recommendation from the subcommittee will likely be coming to the LCC June meeting.

Review Title 17 for Any Needed Updates – Discussion. As noted, this is an open discussion for the Land Conservation Commission members with any additional action to be brought forward as part of future meetings. Such topics include:

- Applicability changes for permits under the Erosion Control Ordinance
- Defining the county application process for Agricultural Enterprise Area agreements
- Incorporation of new storm volume modeling parameters in Stormwater permit applications
- Recent interest in CAFO ordinance? Partnerships with City-County Health in the fall?
- New technology references needed in the Animal Waste Storage Ordinance

Agency Updates and Committee Member Updates – Discussion.

Set Next Meeting Date – Discussion/Action. Based on new committee structures, the regular meeting dates will be reviewed as part of this meeting.

2015 LCD Programs & Projects

Cost-Share –

NAME	PROJECT	COUNTY COST SHARE	STATE COST SHARE
Mel & Shawn Seuferer	Prescribed Grazing		

Farmland Preservation and Nutrient Management

April 15 deadline has passed for tax preparation purposes and have begun to complete status reviews on a portion of the participants.

Wildlife Damage Program

Aaron Wilhelm – Potential temporary fence & shooting permit

Inga Witscher – New Fencer – Apiary protection

Other Projects

WellIntel Tri-County Groundwater Monitoring Project: 3 of 5 units have been installed.

Eau Claire River Watershed: Lindsay Olson provided final modeled numbers. Chris Straight is finalizing the Draft Plan in preparation for a late May meeting.

Hiring for LCD staff to commence soon for the following positions:

- Administrative Specialist II
- Environmental Engineer

Construction Site Erosion Control (UDC reviews)

- As of May 10, 2016 the Land Conservation Division has received and reviewed **4** small site erosion control applications.
- As of May 10, 2016 the Land Conservation Division has reviewed **22** UDC erosion control plans.

Stormwater and/or Erosion Control Plans & Subdivision Reviews –

2016 Permit Applications

Date	Name	Permit #	Permit Type
1/6/16	Arrowhead Properties	EC-01-16	Small Site
1/11/16	Menards – Westgate	SW-01-16	Stormwater
1/28/16	Haas Residential Lot	EC-02-16	Small Site
3/18/16	Creative Construction	EC-04-16	Small Site
4/26/16	Jeff Jackson	EC-05-16	Small Site

Defined process for Municipal projects under the Stormwater Mgt. & Erosion Control Ordinances:

Completed:

- | | | |
|-------------------------|------------|--|
| Town of Washington | 5-26-2015 | Agreement Complete and signed by all parties. |
| Town of Drammen | 5-26-2015 | Agreement Complete and signed by all parties. |
| Town of Pleasant Valley | 5-26-2015 | Agreement Complete and signed by all parties. |
| Town of Seymour | 11-2-2015 | Agreement Complete and signed by all parties. |
| Town of Wilson | 11-23-2015 | Agreement Complete and signed by all parties. |
| Town of Fairchild | 12-29-2015 | Agreement Complete and signed by all parties. |
| Town of Lincoln | 3-14-2015 | Agreement Complete and signed by all parties. |
| Town of Ludington | | Town Ordinance adopted to address Storm Water Management and Construction Site Erosion Control. |
| Town of Brunswick | 12-10-2015 | Town Board voted to reject the intergovernmental agreement and therefore will comply project-by-project. |

Still Pending:

- | | | |
|--------------------------|--|---|
| Town of Union | | Agreement approved by Town Board and waiting on final signatures. |
| Town of Bridge Creek | | Jacobs has met with the Town Board, provided draft agreement, and final consideration was expected by the end of calendar year 2015. |
| Town of Otter Creek | | Jacobs discussed at the November Town Board meeting and distributed draft agreement. Final consideration was expected by the end of calendar year 2015. |
| Town of Clear Creek | | Jacobs discussed at the November Town Board meeting and has developed draft agreement. Final consideration was expected by the end of calendar year 2015. |
| Lake Eau Claire District | | Expressed interest in the agreement. Jacobs will be drafting a template for their consideration. |
| Lake Altoona District | | Recent dredging project covered under the assumption that we’re working towards the intergovernmental agreement for their projects. |

**EAU CLAIRE COUNTY
LAND CONSERVATION COMMISSION**

**MEETING MINUTES – MONDAY, APRIL 11, 2016
AGRICULTURE & RESOURCE CENTER – ALTOONA, WI**

MEMBERS PRESENT: Ray Henning, Tami Schraufnagel, Robin Leary, Gary Gibson, Bruce Willett, Glory Adams, Dean Solie, Ron Erickson

MEMBERS EXCUSED:

STAFF PRESENT: Kelly Jacobs

OTHERS PRESENT: Lance Gurney (P & D), Jen Roetter (NRCS), Keith Krajewski (DNR)

1. Call to Order

The meeting was called to order at 5:15 PM by Chair Leary.

2. Public Input Session

No public in attendance.

3. Approve Minutes

Motion by Gibson to approve the March 7, 2016 minutes as presented. Seconded by Henning. All in favor. Motion carried.

4. County Cost-Share Applications and Ledger Update

LCC reviewed.

5. Rain to Rivers Program Internal Audit

LCC members were provided with a response memo from Scott Rasmussen, Finance Director. Gurney presented on the Rain to Rivers internal audit process and thanked Jacobs for the great work completed. Gurney outlined several changes in the account structure including the following:

- The 207 account is currently a hybrid of several grant funded programs as separate subaccounts.
 - We are looking at each program having its own account lines.
 - Funds in the account are non-lapsing, but are currently held in the County's general fund after the end of the budget year.
 - These accounts are tracked using ALIO and will be visible on budget reports and financial statements.
 - Last three numbers at the end of the newly created revenue and expense lines for the Rain to Rivers program will end with the numbers "588" (for example, 16-207-15-43588-000-000) so they are easier to understand and correlate.
- The 800 account is already set up to maintain a carryover balance for the program
 - Established because this programs manages non-county funds and Eau Claire County is only acting as fiscal agent on behalf of Rain 2 Rivers
 - Nonlapsing balance account fund and carryover is credited & documented from year to year.
 - This account is not tracked on the chart of accounts or budget sheets.
 - End of year balance in 207 will be reconciled in one transaction and either a credit or debit will be made into the 800 account each year.
- The 100 accounts will no longer be used for the Rain to Rivers Program as those are lapsing accounts and relate to everyday county operating processes.

In the case of Rain to Rivers program fiscal management, Gurney suggests that sufficient documentation and through accounting is necessary to ensure proper tracking of funds and subsequent reporting to the Rain to Rivers (R2R) members. It is also good to know we have the accounts and dollar figures all verified in the event of any future transition of the R2R program to a new fiscal agent.

6. Land Stewardship Subcommittee Nominations

Jacobs indicated that the Land Stewardship Subcommittee will be making recommendations to LCC for subcommittee membership at one of their upcoming meetings and invited LCC to identify potential candidates for consideration if they wish. Discussion suggested that Paul Lokken may consider serving as well?

7. Agency Updates & Committee Member Reports

Keith Krajewski, WI DNR Forester for private lands in Eau Claire County

There is Managed Forest Law (MFL) legislation that would impact the program if signed by the Governor:

- Currently there is a 10 ac. minimum and that would move to a 20 ac. minimum size required for enrollment
- New entries into the program would have no building allowed, but small acreages would be able to be removed
- Currently the maximum size is 160 ac. and they are expanding that to a 320 acre maximum
- Calculate withdrawal only to the last 10 years. (currently they would have to look at paying back taxes all the way to the beginning of the contract)
- No leasing currently; but the legislation would allow for leasing
- Currently there is a yield tax on wood harvested at a rate of 5% timber value going to Towns – under the legislation that would no longer be there and instead would be returning to the Town a portion of the closed and open taxes collected.
- Mandatory harvests have always and will continue to be part of MFL.

Jen Roetter – USDA-NRCS District Conservationist

CSP: deadline is March 31st. So far there have been 11 new applications plus 15 renewals.

EQIP : signup closed March 4th with only one Eau Claire County applications funded. The September signup funds the most projects. The next EQIP signup “batching” date is September 2nd. The five projects that didn’t get funded in the last round will be automatically rolled into that signup for consideration. EQIP cover crops and streambank initiative deadline is June 10th.

RCPP: EQIP funds with Trout Unlimited in the Driftless area. May 10th deadline for new applications. There is also a Monarch initiative signup.

Cover crop tour – eight sites around the county; auto/driving; handed out brochures

CRP: HEL contracts for mainly cool season grass. SAFE proposal for monarchs. RC & D securing most of the native seed, but still need lupine seed for two landowners. 400-500 ac. Karner Blue acreage to seed this spring.

Other: Engineering currently being worked on. FSA signup – conservation plans and conservation compliance and complaints too; 18 people to complete the first part of June.

Education/Outreach – Bob Bosold; FFA Farm City Day April 22nd; Augusta Schools May 2,3 & 4; Soil health

Eau Claire County LCD & Committee reports

Eau Claire River Watershed meeting and status update. Elected official meeting coming up soon.

Lake Eau Claire – Gibson reported that the management strategy discussed and getting a lot of good positives, especially with dredging. County needs to be a big partner and DNR continues to also be really involved in it. Army Corps of Engineers helping with reconnectivity plan. There are concerns with the proposed handicap fishing pier – Bridge Creek would like to focus more on improving one of the existing boat landings because of the challenging spot currently be considered (no parking, high traffic, small space, steep slope). The location being discussed is currently a small public park that rarely gets used and would likely have permitting challenges.

Phosphorus Variance - Adams reported that the DNR was directed to create a variance process for phosphorus discharges in water bodies. EPA OK'd them, but now DNR is in the process of writing the statutes that would go along with it. Concerns are whether the costs are justified or is it prolonging/delaying the inevitable of having to complete upgrades at existing point source discharger facilities. Discussion on treatment plant contributing to dead zones in Green Bay. Counties will likely get money to help implement BMPs, but can't hire staff with the funds.

Soil & Water Stewardship Week: Could possibly do some kind of Slide Show. Also put posters on display in the County Board room. Lobby display for the week. Perhaps get some press as well?

Wellntel project installations likely happening soon.

Tree Sale distribution coming up on April 22.

LCC training scheduled for May 12 in Menomonie and members should contact Jacobs to get registered if they are interested in attending.

11. Next Meeting Date

Henning can't meet on Monday evenings if he gets on the City of Altoona Planning Commission and may not be able to attend future LCC meetings. There will be discussion at the next meeting to set the regular meeting schedule that will fit with member schedules. Discussion on others who may wish to apply for this committee as well.

Next meeting will be held on Monday, May 16, 2016 at 5:15 PM at the Ag & Resource Center in Altoona.

12. Adjourn

Leary adjourned the meeting at 6:29 PM.

Respectfully submitted,

Kelly Jacobs, Land Conservation Manager

**Land Conservation Division
April 2016**

The following bills were sent to the Finance Department for payment.

Vendor	Line Item #	Amount	Description
Alpha Nurseries	57410-829-000	\$ 2,435.27	Final Tree Payment
Bosch's Countryview Nursery	57410-829-000	\$ 2,556.02	Final Tree Payment
Eau Claire Co. Hwy.	57410-241-000	\$ 126.19	Fuel (3 trucks) 2/21/16-3/19/16
Engel's Nursery	57410-829-000	\$ 1,418.65	Final Tree Payment
Paint Creek Nursery	57410-829-000	\$ 322.50	Final Tree Payment
Pisek, Todd	44405-000-000	\$ 280.00	Refund Erosion Control Permit Fee
US Bank	57410-326-000	\$ 24.85	NACD Bookmarks
US Bank	57410-390-000	\$ 13.36	Field Supplies
US Bank	57410-903-000	\$ 71.95	Special Events Poster Frames
US Bank	57410-903-000	\$ 7.98	Special Events Poster Frames
US Bank	57410-903-000	\$ 15.97	Special Events Poster Frames
US Bank	57410-903-000	\$ (11.97)	Special Events Poster Frames
US Bank	57588-200-000	\$ 77.50	R2R Website software
US Bank	57588-200-000	\$ 295.00	R2R Display Rental Space
US Bank	57410-241-000	\$ 9.78	Wiper Blades '13 Dodge
TOTAL		\$ 7,643.05	

DATCP REPORT

May 2016

Soil and Water Resource Management Grants

- The 2017 SWRM grant application review report will be e-mailed to the counties in late April or early May to verify application data that was submitted to DATCP.
- Counties may expect to receive their 2016 grant contracts by the end of May. Counties may decide to sign cost-share contracts before they have a signed grant contract with DATCP.
- DATCP received 2016 annual work plans and 2015 activity reports from every county. DATCP will be working with counties to address work plan issues.

Land and Water Resource Management Plans

- Thank you to all 72 counties for submitting the annual work plans and for completing the 2015 Annual Activities Report by the April 15th deadline.
- For the counties that are revising or requesting an extension to their LWRM plans in 2016 you will be able to use the annual work plan that you submitted as part of your request. If you have questions please contact Lisa Trumble, Lisa.Trumble@wi.gov
- The June Land and Water Conservation Board meeting has been cancelled. The next meeting is scheduled for August 2, 2016.

Nutrient Management

- Nutrient Management Farmer Education grant applications were due on Friday, April 15th. There were 16 applications for a total of \$163,814 in requested funding. Seven of the applications were from groups that have not yet utilized the program.
- A summary of the 2015 nutrient management standard is available and included with this monthly update. The summary highlights the changes made to the 2005 version of the standard.

Producer Led Watershed Protection Grants

- On March 29th, DATCP hosted a public hearing for the emergency rule ATCP 52.
- Out of the 15 received Producer Led Watershed Protection Grant proposals, DATCP has awarded 14 of the projects for a total of \$242,550 to perform conservation activities in their watersheds. We were very impressed with the level of commitment from the farmers and partners in the projects and are excited to see what they accomplish. A press release announcing awards is scheduled to go out in the next week or so. In the meantime, we are working with awardees to go through the contract routing process to finalize their funding.

Agricultural Impact Statements (AIS)

- DATCP Agricultural Impact Statement (AIS) staff are reviewing the Great Lakes Basin Rail Line proposed for Rock County. DATCP staff attended the Surface Transpiration Board's EIS scoping meeting in Janesville and will be providing comments detailing potential agricultural impacts for the 24 mile-long portion of the route in Wisconsin. Comments are due June 15, 2016.

Runoff Risk Advisory Forecast

- During the week of May 23, a videographer with NOAA, based out of the National Severe Storms Center in Norman, OK will be in Minnesota at the North Central River Forecast Center and at various locations in Wisconsin to talk with people and to do some filming. NOAA plans to produce a short (5-6 minute) video aimed at a general audience about the Runoff Risk Advisory Forecast. Topics planned to be emphasized in the video include: the power of partnerships, how NOAA provides information that individual states are able to use in specific applications like the RRAF, and how NOAA products are being used to help protect human health and the health of the ocean (addressing the hypoxic zone in the Gulf of Mexico).

Conservation Reserve Enhancement Program

- DATCP continues to offer CREP training for counties that covers CREP basics, county CREP responsibilities, and available tools. Trainings can be held locally and are a good opportunity for all partner agencies (LCD, FSC, NRCS, and DATCP) to convene and review CREP in their area. Contact Brian.Loeffelholz@wisconsin.gov if you are interested in arranging a training or have any other CREP-related questions.

Ordinances

- DATCP recently certified the Dunn County farmland preservation zoning ordinance.
- DATCP is consulting with DNR regarding a request by Bayfield County to approve more stringent water quality standards in a county ordinance related to manure storage facilities maintained by CAFOs.

Conservation Engineering

- DATCP is continuing to work out the details for DATCP approval of feed storage and barnyard runoff control projects involving VTAs. DATCP has issued guidance for livestock facilities under 300 animal units and will be tackling facilities from 300 to 999 animal units.

Other Items

- The pollinator protection plan is available online at datcp.wi.gov; search for "pollinator protection plan."

2015 updates: Wisconsin Nutrient Management 590 Standard



March 22, 2016

- This bullet highlights changes to the 2005 version of the NRCS 590 Nutrient Management Standard. *Not all of the changes, additions, or deletions made to the 590 Standard are noted in this summary sheet.*
- This bullet notes items that have not changed.

REQUIREMENTS FOR SURFACE AND GROUNDWATER PROTECTION

Guidelines for all fields where manure, organic by-products, or fertilizer nutrients are applied:

- The source, rate, timing and method of application for all major nutrients — nitrogen (N), phosphorus (P₂O₅), and potassium (K₂O)— should be accounted for and should be consistent with UWEX A2809 recommendations. Applications must not run off the intended application site; erosion must not be greater than tolerable soil loss (T) over the crop rotation; use perennial vegetation to protect areas of concentrated flow resulting in recurring gullies.
- Control ephemeral erosion using reduced tillage, adjust the crop rotation, or implement other practices such as contouring to control this erosion.
- Show adequate acreage and a winter spreading plan for all farms with mechanically applied manure or organic by-products.
- Where excessive rain has caused crop N deficiency, apply up to 46 lb per acre **rescue N** and document the need for this additional N using one of the methods listed in Tech Note WI-1. Appendix 3. If more than 46 lb N per acre is applied, the documentation must include two of the listed methods.
- Estimate available manure nutrients with **book values** or **manure samples**. If sampling, establish a baseline by averaging samples collected for at least 3 consecutive years. Later samples can be 1 every 4 years unless the farm's operation changes.
- Account for N and P₂O₅ deposited by pastured or gleaning animals. Pasturing is allowed within 50 feet of a well or direct conduit to groundwater, in SWQMA in the winter, and on all slopes in the winter.
- If manure or organic by-products are applied during a crop rotation (8 years or less), use a P management strategy: **Phosphorus Index of 6 or less** or **Soil test P thresholds**:
 - **Greater than 50 ppm soil test P**: Balance the total P applications with P removed by crops.
 - **Greater than 100 ppm soil test P**: Total P applications from **all** sources shall not exceed guidelines from UWEX A2809. If manure P applications above these guidelines are necessary due to lack of suitable application sites, P applications shall be 25% less than the cumulative annual crop removal over a maximum rotation length of 8 years.

Applications are prohibited on:

- Concentrated flow channels; surface water; **saturated soils**; areas of active **snow melt** where water is flowing; land where vegetation is not removed — unless needed for establishment and maintenance of a **conservation practice**.
- Direct conduits to groundwater, a potable well, or within 8 feet of irrigation wells.
- Areas within 50 feet of direct conduits to groundwater, unless directly deposited by gleaning or pasturing animals or **as starter fertilizer to corn**.
- Areas near **public water supplies** within 1000 feet of a community potable water well; or areas within 100 feet of a non-community potable water well (church, school, and restaurant) unless **manure is treated** to substantially eliminate pathogens.
- Areas locally delineated by the Land Conservation Committee or in a conservation plan **as areas contributing runoff to direct conduits to groundwater** unless manure is substantially buried within 24 hours of application.

Nutrients applied within Surface Water Quality Management Area (SWQMA) 1,000 feet of lakes/ponds or 300 feet of rivers use one or more of the following:

- 1. Install/maintain vegetative buffers or filter strips; 2. Maintain > 30% cover after nutrient application; 3. Incorporate within 72 hours of application; 4. Establish crops prior to, at, or promptly following application.
- 5. Have a minimum of 3 consecutive years no-till when making applications to fields with **< 30% residue**, such as silage fields, and apply nutrients within 7 days of planting.
- Mechanical applications of **unincorporated liquid manure 11% or less dry matter** within the SWQMA, or where subsurface drainage is present — limit applications to 12,000 gal/acre and visually monitor accessible tile outlets before, during, and after applications for discharge of liquid manure or organic by-product.
 - If a discharge is observed, stop applications. Sequential applications may be made to meet the nutrient need. Wait a minimum of 7 days between sequential applications.

A winter spreading plan is required for all farms mechanically applying manure or organic by-products:

- Identify quantities of **manure spread during winter, or generated in 14 days**, whichever is greater; **storage/stacking capacity** for each manure type applied on the farm — manure that is ≥ 16% solids without permanent storage, complete an evaluation to determine if stacking sites consistent with NRCS 313 standard are available.

2015 updates: Wisconsin Nutrient Management 590 Standard

March 22, 2016



When frozen or snow-covered soils prevent effective incorporation:

- Do not apply nutrients within the SWQMA or apply N and P fertilizer, except on grass pastures and winter grains.
- Do not exceed the P removal of the following growing season's crop when applying manure. Liquid manure applications are limited to 7,000 gal/acre. All winter manure applications are not to exceed **60 lb** of P_2O_5 /acre.
- Do not surface apply **liquid manure during February and March** on areas depicted on the 590 spreading restriction maps where DNR Well Compensation funds provided replacement water supplies for wells contaminated with livestock manure or where Silurian dolomite is within **60 inches** of the soils surface.
- Do not apply manure within **300 feet** of direct conduits to groundwater. (in version 2005, 200 feet).
- Do not apply nutrients to fields with **slopes** greater than 6% (C,D,E,F) unless the plan documents that no other accessible fields are available for winter spreading and two of the following are implemented:
 - 1. Contour buffer strips or contour strip cropping.
 - 2. Leave all crop residue and no fall tillage.
 - 3. Apply manure in intermittent strips on no more than 50% of field.
 - 4. Apply manure on no more than 25% of the field during each application, waiting a minimum of 14 days between applications.
 - 5. Reduce manure application rate to 3,500 gal/acre or 30 lb P_2O_5 /acre, whichever is less.
- Do not apply nutrients to fields where **concentrated flow channels** are present unless two of the following are implemented:
 - Options 1-5 above.
 - 6. No manure application within 200 feet of all concentrated flow channels.
 - 7. Fall tillage is on the contour and slopes are lower than 6%.

ADDITIONAL REQUIREMENTS FOR GROUNDWATER PROTECTION

On N restricted soils that include high permeability soils (P), or rock soils with less than 20 inches to bedrock (R), or wet soils with less than 12 inches to apparent water table (W):

- **In late summer or fall:** No commercial N applications should be applied on areas identified as having **soil depth of 5 feet or less over bedrock**, P, R, W soils, areas within **1,000 feet of a community potable water well**, except

where needed for establishment of fall seeded crops or blended commercial **fertilizer materials are needed** to meet UWEX Pub. A2809 guidelines. For these exceptions, the N application rate shall not exceed **36 lb N** per acre, and all nutrients must be credited towards the crop requirement.

- **In spring or early summer:** When commercial N is applied on R, W, and combination soils, do not exceed the crop N A2809 rates from all sources. On P soils, for full season crops, do not exceed the crop N rate guidelines and apply one of the following management strategies:
 - A split or delay N application to apply a majority of crop N requirement after crop establishment.
 - Use a nitrification inhibitor with ammonium forms of N.
- Use slow and controlled release fertilizers for a majority of the crop N requirement applied near the time of planting.
- **In late summer or fall:** When **manure and/or organic by-products** are applied, use rates of available N that do not smother the crop; do not exceed UWEX Pub. A2809; do not exceed Part III. B.4. Table 2 of the Technical Note WI-1; or do not exceed the rate listed below, whichever is less:

Use ≤ 120 lb available N/acre on:

P and R soils

- Applications > 4.0% dry matter (DM) on all crops, except single annual crops.

W soils or combination W soils

- Applications > 4.0% DM on all crops.
- Applications ≤ 4.0% DM on all crops use at least one of the following practices:
 - Use a nitrification inhibitor.
 - Apply on an established cover crop, an overwintering annual, or perennial crop.
 - Establish a cover crop within 14 days of application.
 - Surface apply and do not incorporate for at least 3 days.
 - Delay application until October 1 or soil temperatures are less than 50°F.

Use ≤ 90 lb available N/acre on:

P and R soils (wait until after soil temp. < 50°F or Oct. 1)

- Applications > 4.0% DM on single annual crops; or
- Applications ≤ 4.0% DM on all crops use either a nitrification inhibitor, or surface apply and do not incorporate for at least 3 days.

W soils or combination W soils

- Applications ≤ 4.0% DM on all crops.