

## Final Report Form 3400-189 (rev. 7/30/09)

- Targeted Runoff Management Grant Program (ch. NR 153)
- Notice of Discharge Program (ch. NR 153)
- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

**NOTICE:** This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

**INSTRUCTIONS:** Your grant agreement requires you to submit a Final Report with your final reimbursement request. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR as described in the instructions.

### 1. GRANT TYPE. Check the one that applies.

|                                                                                              |                                                                                          |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Targeted Runoff Management Grant – Agricultural          | <input type="checkbox"/> Targeted Runoff Management Grant – Urban                        |
| <input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Construction | <input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Planning |
| <input type="checkbox"/> Notice of Discharge Grant                                           |                                                                                          |

### 2. PROJECT NAME & LOCATION.

|                                                                                           |                                                          |                                     |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------|
| 2.1. Project Name:<br><b>Hibbards Creek/Norbert Haberli Project</b>                       | 2.2. Grant Number:<br><b>TRC-TK06-15000-08 C</b>         |                                     |
| 2.3. Governmental Unit Name:<br><b>Door County Soil and Water Conservation Department</b> | 2.4. Primary Watershed Name:<br><b>Upper Door County</b> | 2.5. Watershed Code:<br><b>TK06</b> |

#### NOTE FOR SECTION 2.6 (which follows):

**Section 2.6.** includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.

| 2.6 Site Location(s) →                                          | A.                                                                                        | B. | C. | D. | E. |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------|----|----|----|----|
| Name of Cost-Share Recipient or Governmental Unit               | <b>Haberli, Norbert</b>                                                                   |    |    |    |    |
| Cost-Share Agreement Number (Agricultural only)                 | <b>10-HAB-01</b>                                                                          |    |    |    |    |
| 12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed | <b>040301020106</b>                                                                       |    |    |    |    |
| Nearest Surface Receiving Water Affected                        |                                                                                           |    |    |    |    |
| Name:                                                           | <b>Hibbard Creek</b>                                                                      |    |    |    |    |
| Waterbody Identification Code(s) (WBIC):                        | <b>98200</b>                                                                              |    |    |    |    |
| Nearest Impaired Water Affected                                 |                                                                                           |    |    |    |    |
| Name:                                                           |                                                                                           |    |    |    |    |
| Waterbody Identification Code(s) (WBIC):                        |                                                                                           |    |    |    |    |
| Pollutants Reduced                                              | <b>Sediment, Bacteria, Nitrates and Phosphorus</b>                                        |    |    |    |    |
| Impairments/Impacts Addressed                                   | <b>-Existing, Failing Manure Storage Facilities<br/>-Clean Water Diversions in a WQMA</b> |    |    |    |    |

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|                                                                                                              |                                                                                                                                                                  |           |           |           |           |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
|                                                                                                              | -Overflow of Manure Storage Facilities<br>-Direct Runoff to Waters of the State<br>-Sedimentation to Surface and Groundwater<br>-Elimination of Winter Spreading |           |           |           |           |
| <b>Project Location(s) (cont.) →</b>                                                                         | <b>A.</b>                                                                                                                                                        | <b>B.</b> | <b>C.</b> | <b>D.</b> | <b>E.</b> |
| <b>Project Coordinates:</b>                                                                                  |                                                                                                                                                                  |           |           |           |           |
| <b>Town</b>                                                                                                  | 30N                                                                                                                                                              |           |           |           |           |
| <b>Range</b>                                                                                                 | 27E                                                                                                                                                              |           |           |           |           |
| <b>Section</b>                                                                                               | 21                                                                                                                                                               |           |           |           |           |
| <b>Quarter</b>                                                                                               | SW                                                                                                                                                               |           |           |           |           |
| <b>Quarter-Quarter</b>                                                                                       | NW                                                                                                                                                               |           |           |           |           |
| <b>Latitude</b> (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV)) | 45d3m44s                                                                                                                                                         |           |           |           |           |
| <b>Longitude</b> (degrees, minutes, seconds W of Prime Meridian, use the SWDV)                               | 87d13m53s                                                                                                                                                        |           |           |           |           |

### 3. SUMMARY OF RESULTS.

| Table A. Agricultural Projects. – Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities |                                 |                  |                         |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|-------------------------|
| A.1. Management Measures                                                                                                            | Units of Measure                | Quantity         | Measurement Method Used |
| Sheet, rill and wind erosion                                                                                                        | Acres meeting "T"               | 253 acres        | RUSLE2                  |
| Manure Storage Facilities:<br>New Construction/Alterations                                                                          | Number of facilities            | 2 facilities     | count                   |
|                                                                                                                                     | Number of animal units          | 172 animal units | count                   |
| Manure Storage Facilities: Closure                                                                                                  | Number of facilities            | facilities       |                         |
| Manure Storage Facilities:<br>Failing/Leaking Facilities                                                                            | Number of facilities            | facilities       |                         |
|                                                                                                                                     | Number of animal units          | animal units     |                         |
| Clean Water Diversions in WQMA                                                                                                      | Pollutant load reduction        | 27 lbs.          | BARNY                   |
|                                                                                                                                     | Number of farms with diversions | 1 farms          | count                   |
|                                                                                                                                     | Number animal units             | 172 animal units | count                   |
| Nutrient Management on Agricultural Land                                                                                            | Acres planned                   | 253 acres        | count                   |
| Prohibition: Manure Storage Overflow                                                                                                | Number of farms                 | 1 farms          | count                   |
|                                                                                                                                     | Number of animal units          | 172 animal units | count                   |

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|                                                       |                          |                  |       |
|-------------------------------------------------------|--------------------------|------------------|-------|
| Prohibition: Unconfined Manure Pile in WQMA           | Number of farms          | farms            |       |
| Prohibition: Direct Runoff From Feedlot/Stored Manure | Pollutant load reduction | 27 lbs.          | BARNY |
|                                                       | Number of facilities     | 2 facilities     | count |
|                                                       | Number of animal units   | 172 animal units | count |
| Prohibition: Unlimited Livestock Access               | Feet of bank protected   | feet             |       |
|                                                       | Number of farms          | farms            |       |

| <b>Table A. Agricultural Projects.</b><br>(continued) |                                                 |          |                         |
|-------------------------------------------------------|-------------------------------------------------|----------|-------------------------|
| <b>A.2. Other Management Measures</b>                 |                                                 |          |                         |
|                                                       | Units of Measure                                | Quantity | Measurement Method Used |
| Streambank & Shoreline Protection                     | Units (use feet, acres or number as applicable) |          |                         |
|                                                       | Pollutant load reduction (if method available)  |          |                         |
| Other: Elimination of Winter Spreading                | Units (use feet, acres or number as applicable) | 253      | Acres Counted           |
|                                                       | Pollutant load reduction (if method available)  |          |                         |
| Other:                                                | Units (use feet, acres or number as applicable) |          |                         |
|                                                       | Pollutant load reduction (if method available)  |          |                         |
| Other:                                                | Units (use feet, acres or number as applicable) |          |                         |
|                                                       | Pollutant load reduction (if method available)  |          |                         |

| <b>Table B. Urban Construction Projects Serving Developed Areas.</b> |                                                 |                                                          |                         |
|----------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|-------------------------|
| <b>B.1. Required Management Measures</b>                             |                                                 |                                                          |                         |
|                                                                      | Units of Measure                                | Quantity                                                 | Measurement Method Used |
| 20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities | TSS reduced                                     | lbs.                                                     |                         |
|                                                                      | TSS reduction                                   | %                                                        |                         |
| <b>B.2. Other Management Measures</b>                                |                                                 |                                                          |                         |
| 20-40% Reduction in TSS for non-NR 216 communities                   | TSS reduced                                     | lbs.                                                     |                         |
|                                                                      | TSS reduction                                   | %                                                        |                         |
| Infiltration                                                         | Pre-development stay-on volume                  | %                                                        |                         |
|                                                                      | Stay-on volume                                  | ft <sup>3</sup> /year                                    |                         |
| Peak flow discharge for 2 year/24 hour design storm                  | Change in cubic feet per second for design year | ft <sup>3</sup> /sec                                     |                         |
| Protective areas                                                     | Bank protected                                  | feet                                                     |                         |
| Fueling & maintenance areas                                          | Oily sheen presence reduced                     | <input type="checkbox"/> Yes <input type="checkbox"/> No |                         |
| Streambank & Shoreline Protection                                    | Bank erosion reduced                            | tons                                                     |                         |
|                                                                      | Bank protected                                  | feet                                                     |                         |
| Other:                                                               | Pollutant load reduction (if method available)  |                                                          |                         |
|                                                                      | Units (use feet, acres or number as applicable) |                                                          |                         |

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**Table C. Urban Planning Projects.**

C.1. Governmental unit(s) involved (list by name):

C.2. Estimate total acres covered by the planning product:

| Existing Developed Urban Areas | New Development | Total Acres |
|--------------------------------|-----------------|-------------|
| acres                          | acres           | acres       |

C.3. Products developed  
(check all below that apply)

Identify Documents by Name (if applicable)

- ☐ Storm Water Plan
- ☐ Construction or Erosion Ordinances
- ☐ Post-construction Storm Water Ordinances
- ☐ Other Types of Storm Water Quality Ordinances
- ☐ Financing Methods: identified and evaluated
- ☐ Financing Methods: developed or implemented
- ☐ I & E Plan
- ☐ I & E Implementation Activities
- ☐ Other:

C.4. Identify the Storm Water goals addressed (check all that apply)

- ☐ Reduce TSS
- ☐ Maintain infiltration
- ☐ Control Peak Flow
- ☐ Protective Areas
- ☐ Control of Fueling & Maintenance Areas
- ☐ Remove Illicit Discharges

☐ Other:

Comments:

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**4. Satisfaction of Notice Requirements.** If cost sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

| Notice Information                |               |                  |                       | Notice Satisfaction Information     |                          |                  |
|-----------------------------------|---------------|------------------|-----------------------|-------------------------------------|--------------------------|------------------|
| Chs. NR 151 or 243<br>Notice Type | Issue Date    | From (Name)      | To (Name)             | Satisfied?                          |                          | Date Letter Sent |
|                                   |               |                  |                       | Yes                                 | No                       |                  |
| Local Regulation                  | April 2, 2008 | Door County SWCD | Norbert Haberli       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | October 13, 2010 |
| Local Regulation                  | April 2, 2008 | Door County SWCD | Norbert "Bud" Haberli | <input checked="" type="checkbox"/> | <input type="checkbox"/> | October 13, 2010 |
|                                   |               |                  |                       | <input type="checkbox"/>            | <input type="checkbox"/> |                  |
|                                   |               |                  |                       | <input type="checkbox"/>            | <input type="checkbox"/> |                  |

**5. Additional Information.** (Space will expand to fit your text.)

**6. Summary of Project Challenges.** (Space will expand to fit your text.)

**7. Grantee Certification.**

Checking here ☒ certifies that, to the best of your knowledge, the information contained in this report is correct.

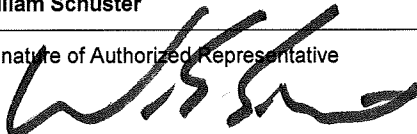
Name of Authorized Representative (type or print) ↓

William Schuster

Title of Authorized Representative (type or print) ↓

County Conservationist

Signature of Authorized Representative



Date

October 13, 2010

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**8. For Departmental Use Only.**

Regional NPS Coordinator – Please complete the following:

8.A. Check here ☐ if you have received the following from the project sponsor:

- one (1) printed, signed, original Final Report + attachments
- one (1) electronic version of Final Report.

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

8.B. Comments about this project:

8.C. Type or print Name of Regional NPS Coordinator →

8.D. Signature of Regional NPS Coordinator

8.E. Date



**Milkhouse Waste Discharge on Shallow Soils to Bedrock**



Failing Filter Strip over Shallow Soils to Bedrock



**Existing Collection Basin – Overflowing Conditions**



Existing Manure Storage – Overflowing Conditions



Existing Manure Storage – Failing Wooden Walls



Existing Sediment Basin – Direct Discharge



Test Pit - Less Than 24' to Bedrock



Removal of Existing Wooden Walls



Earthwork for Expansion and Addition of Collection Basin



New Manure Storage Tied into Existing



New Manure Storage Tied into Existing



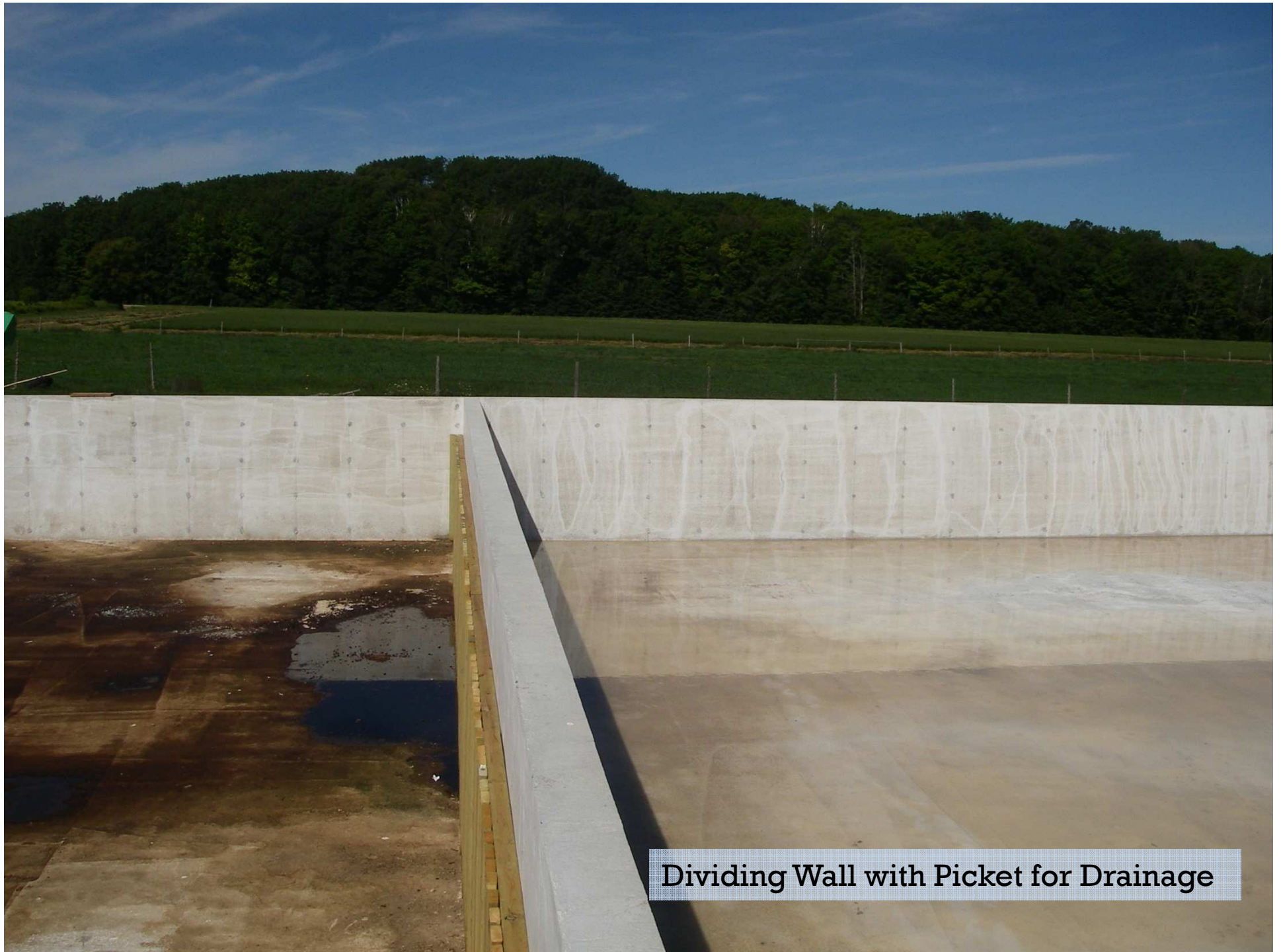
Solid Manure Storage with Picket Wall



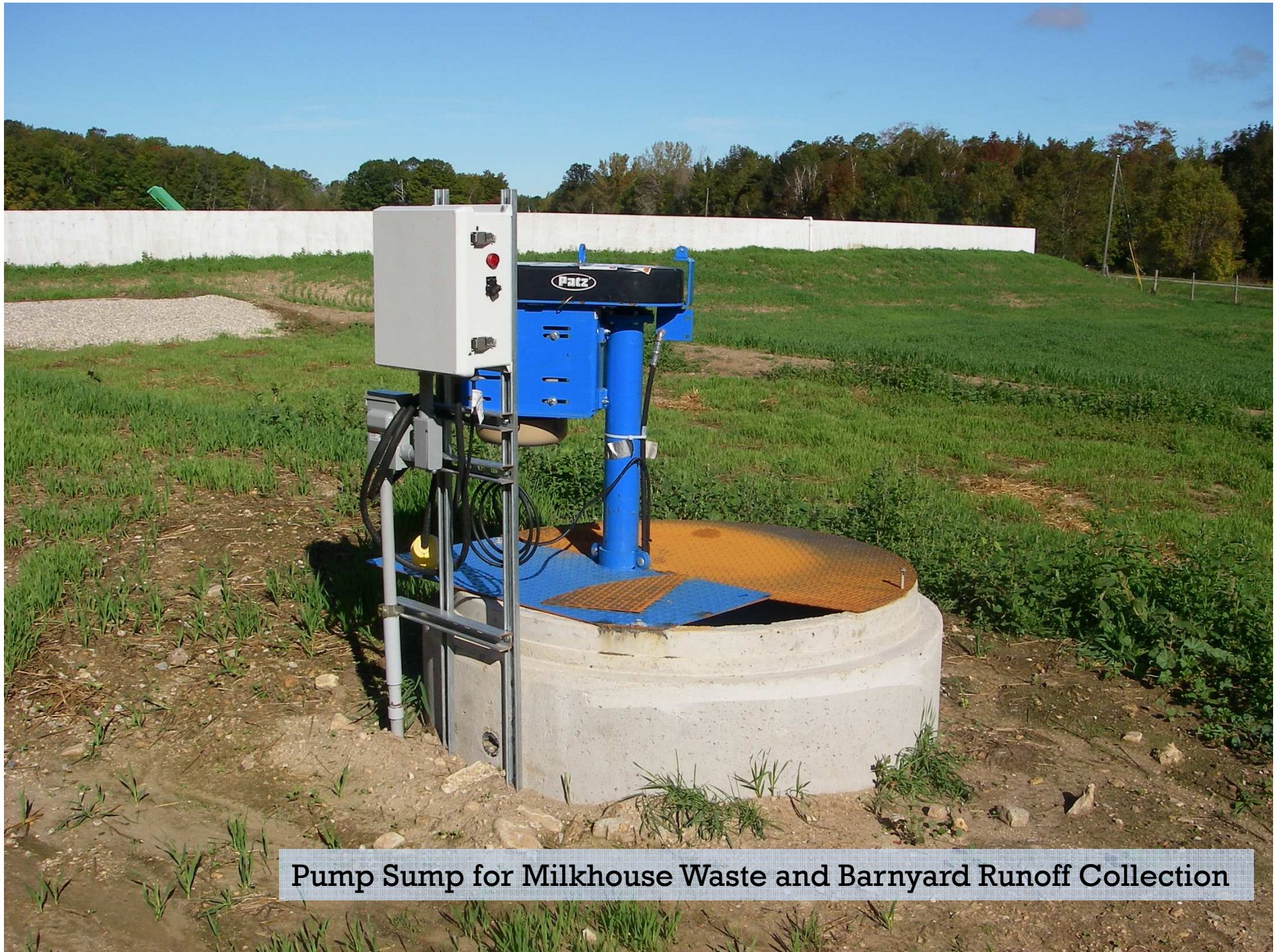
Grading of New Filter Strip



Drain at Entrance to Capture Liquid



Dividing Wall with Picket for Drainage



**Pump Sump for Milkhouse Waste and Barnyard Runoff Collection**



Collection Basin Adjacent to Manure Storage



Landowner Construction of Barnyard Roof for Diversion of Clean Water