

# NUTRIENT MANAGEMENT PLAN UPDATE REPORT CHECKLIST

For WPDES Permitted CAFO Operations  
WDNR – Northeast Region

Date: 3-26-13

Facility Name: Ebert Enterprises LLC

Address: N6939 County Road D, Algoma, WI 54201

Phone: (920)-255-1893 Email: \_\_\_\_\_

Permit Contact Name: Randy Ebert

Signature: \_\_\_\_\_

The following items are required to be submitted to the Department on an annual basis as part of the nutrient management plan update report for a WPDES permitted CAFO. Please use the following checklist to ensure that all of the necessary items are attached and submitted as required under the WPDES permit and s. 243.19(3)(c), Wisconsin Administrative Code. Note: Reports may be submitted electronically as long as signatures are still included on relevant forms.

FOLDER/TAB NAME	NMP update report information to be submitted
See Snap-Plus reports included in Tabs 3, 8, and 11. Also see record keeping forms in Tab 14 of the Re-application.	An annual spreading report summarizing manure and other process wastewater land application activities indicating the following for each field receiving manure or process wastewater (Form 3200-123 or equivalent should be used): <ul style="list-style-type: none"> <li>➤ Date of application</li> <li>➤ Information on the field where manure or process wastewater is applied including field identification, slope and soil test phosphorus levels</li> <li>➤ Acres applied</li> <li>➤ Source and nutrient content of applied manure</li> <li>➤ Current and previous field crops</li> <li>➤ Nutrient balance indicating crop nutrient need in comparison to nutrients applied and credited from all sources</li> <li>➤ Whether the soil was dry, wet, saturated, frozen or snow covered at time of application</li> <li>➤ Method and rate of application in tons or gallons per acre</li> <li>➤ Whether fields meet T (tolerable soil loss)</li> <li>➤ Whether soil tests have been taken within the last 4 years</li> <li>➤ Number of years of crop phosphorus need applied based on crop rotation</li> <li>➤ For surface applications on frozen or snow-covered ground, whether any applied manure or process wastewater ran off the application site</li> </ul>
NA	Fields in permittee's nutrient management plan which received nutrients from a source other than manure or process wastewater. (e.g. municipal waste, industrial waste, septage waste, etc). <ul style="list-style-type: none"> <li>➤ Address the 12 bullets above for these fields/sources.</li> </ul>
Tab 3, 8, 11 or the Re-application.	SNAP Plus data files/reports or equivalent software
Tabs 2 & 4	Any updated field maps and records of field verification completed in previous 12 months (e.g. log, photos, measurements, etc.).
Re-application	New fields added to nutrient management plan in previous 12 months.



FOLDER/TAB NAME	NMP update report information to be submitted
plan.	<ul style="list-style-type: none"> <li>➤ Restriction maps</li> <li>➤ Field data</li> </ul>
Review response.	Fields removed from nutrient management plan in previous 12 months.
Tab 8 of Re-application.	Headland stacking site information.
Tab 1	Total number of acres for land application covered by the nutrient management plan.
Tab 1	Total number of acres actually used by the permittee for land application of manure and process wastewater in the previous 12 months.
Tab 7 or tab 6 of Re-application.	Lab analyses for all sources of manure and process wastewater land applied in the previous 12 months. Sources should be clearly identified.
Tab 7 of Re-application.	Lab analyses of most recent soil tests completed for fields receiving manure or process wastewater in the previous 12 months.
Tab 1	A statement indicating whether the current version of the permittee's nutrient management plan was developed or approved by a certified nutrient management planner. (include signed copies of the 590 checklist and NR 243 checklist)
Tab 14 of Re-application.	Results of tile line and groundwater/bedrock depth monitoring.
Tab 5 of Re-application.	Results of any required monitoring for permanent spray irrigation systems.
Tab 6 of Re-application	Results of land application equipment inspections and calibration.
None	Other information requested by the department in writing or in the permit.

Comments:



# NUTRIENT MANAGEMENT PLAN CHECKLIST

V 11/9/05

For Wisconsin's NRCS 590 (September 2005) Nutrient Management Standard Requirements

County name: **Kewaunee** Plan Submitted: **March 1, 2013** Growing season year NM plan is written for: **2012-2013**

(harvest to harvest)

Township: **T23-25N R23-25** Initial Plan or Updated Plan: **Update**

Name of qualified nutrient management planner <b>Nick Guilette</b>		Planner's business name, address, phone: <b>AgSource Laboratories, 106 North Cecil Street, Bonduel, WI 54107 920-304-6293</b>	
Planner's qualification: <b>CCA-34684</b>	Cropland Acres (owned & rented) <b>6,645</b>	Name of farmer receiving nutrient management plan: <b>Ebert Enterprises, LLC – Randy and Renee Ebert</b>	
Circle relevant program requirement or regulation the plan was developed for: Ordinance, <b>USDA</b> , DATCP, DNR, NR 243 – NOD or <b>WPDES</b>			

**Yes No NA**

<b>1. Are the following field features identified on maps or aerial photos in the plan?</b>			
a. Field location, soil survey map unit(s), field boundary, and field identification number	X		
b. Areas prohibited from receiving nutrient applications: Surface water, established concentrated flow channels with perennial cover, permanent non-harvested vegetative buffer, non-farmed wetlands, sinkholes, lands where established vegetation is not removed, nonmetallic mines, and fields eroding at a rate exceeding tolerable soil loss (T)	X		
c. Areas within 50 feet of a potable drinking water well where mechanically-applied manure is prohibited <b>This item is checked yes even though, the actual distance identified on spreading restriction maps is 100 feet to comply with NR 243.</b>	X		
d. Areas prohibited from receiving winter nutrient applications: Slopes > 9% (12% if contour-cropped); Surface Water Quality Management Area (SWQMA) defined as land within 1,000 ft of lakes and ponds or within 300 ft of perennial streams draining to these waters, unless manure is deposited through winter gleaning/pasturing of plant residue and not exceeding the N and P requirements of this standard; Additional areas identified within a conservation plan as contributing runoff to surface or groundwater	X		
e. Areas where winter applications are restricted unless effectively incorporated within 72 hours: Land contributing runoff within 200 feet upslope of direct conduits to groundwater such as a well, sinkhole, fractured bedrock at the surface, tile inlet, or nonmetallic mine	X		
f. Sites vulnerable to N leaching: Areas within 1,000 feet of a municipal well, and soils listed in Appendix 1 of the Conservation Planning Technical Note WI-1	X		
<b>2. Are erosion controls implemented so the crop rotation will not exceed T on fields that receive nutrients according to the conservation plan or WI P Index model?</b>	X		
<b>3. Were soil samples collected and analyzed within the last 4 years according to UW Publication A2100 recommendations? See Narrative.</b>	X		
<b>4. Using the field's predominant soil series and realistic yield goals, are planned nutrient application rates, timing, and methods of all forms of N, P, and K listed in the plan and consistent with UW Publication A 2809, Soil Test Recommendations for Field, Vegetable and Fruit Crops, and the 590 standard?</b>	X		
<b>5. Do manure production and collection estimates correspond to the acreage needed in the plan? Are manure application rates realistic for the calibrated equipment used?</b>	X		
<b>6. Is a single phosphorus (P) assessment of either the P Index or soil test P management strategy uniformly applied to all fields within a tract?</b>	X		
<b>7. Are areas of concentrated flow, resulting in reoccurring gullies, planned to be protected with perennial vegetative cover? It should be noted that no such areas were identified. If any such areas become apparent, corrective actions should begin, including consulting with Joe Johnson of the Kewaunee County NRCS office.</b>	X		
<b>8. Will nutrient applications on non-frozen soil within the SWQMA comply with the following?</b>			
a. Unincorporated liquid manure on unsaturated soils will be applied according to Table 1 of the 590 standard to minimize runoff	X		
b. One or more of the following practices will be used: 1) Install/maintain permanent vegetative buffers, or 2) Maintain greater than 30% crop residue or vegetative coverage on the surface after nutrient application, or 3) Incorporate nutrients leaving adequate residue to meet tolerable soil loss, or 4) Establish fall cover crops promptly following application	X		

I certify that the nutrient management plan represented by this checklist complies with Wisconsin's NRCS 590 nutrient management standard.

Signature of qualified nutrient management planner *Nicholas A. Sankala*

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## NR 243 CAFO NUTRIENT MANAGEMENT PLAN CHECKLIST

Farm Name and Permit No.: Ebert Enterprises, LLC / WI-0062235-02-0 Date Plan Submitted: 3-1-2013  
 Initial Plan / Annual Update / **Permit Renewal** (circle one) Applicable growing season: 2012-2013  
 Planner Name and Contact Information: Nick Guilette, AgSource Laboratory, (920)-304-6293  
 Cropland acres, owned: 1,795 Agreement or Rented Acres: 4,850 Total spreadable acreage: 6,297.3  
 Total acreage used for land application in previous 12 months: 3,454.4  
 Total animals at facility in previous 12 months: 6,441

NMP  
Yes No Section

		Yes	No	Section
<b>1.</b>	<b>Does plan meet Wisconsin's NRCS 590 nutrient management standard, including nutrient budgeting, soil test recommendations and selecting dominant critical soil unit criteria?</b> (NRCS soil unit criteria: <a href="http://www.wi.nrcs.usda.gov/technical/consplan/rusle.html">http://www.wi.nrcs.usda.gov/technical/consplan/rusle.html</a> )	x		1
a.	If yes, does plan contain a copy of NRCS 590 checklist?	x		1
<b>2.</b>	<b>Does plan have a narrative that describes:</b>			
a.	Expected numbers of animal units on site at end of first year of permit coverage and also expected numbers for remaining permit term (next 4 yrs). – NR 243.12(2)(6).	x		1, 6
b.	Expected amounts and types of manure and process wastewater produced on annual basis.	x		1, 6
c.	Amount of manure and process wastewater to be land applied.	x		1, 3
d.	Anticipated frequency and method(s) of land application.	x		1, 3
e.	Other methods of use, disposal, distribution or treatment of manure or process wastewater. <b>All manure will be land applied.</b>	x		1
f.	Tillage and crop rotation information for all fields owned or rented or in 'agreements'.	x		12
g.	Total acreage available (by landowner) for land application owned, rented or in 'agreements'.	x		1
h.	General manure and process wastewater application requirements - NR 243.14(2)(b)(1-13) & (c-f) AND methods explaining how they will be met on all fields in plan (e.g., field and map verification procedures, applicable best management practices and recordkeeping procedures to track actions taken).	x		1, 4, 11, 14
i.	Nutrient crediting requirements - NR 243.14(3) - and how they will be met.	x		1, 12
j.	SWQMA application restriction option for each field AND methods explaining how restriction(s) will be met - NR 243.14(4).	x		1, 4
k.	Phosphorus delivery method (P Index or Soil Test P) for each field AND management strategy for fields with soil test P above 100 ppm and 200 ppm - NR 243.14(5).	x		1, 12
l.	Fields adjacent to or with high potential to drain to impaired or outstanding/exceptional waters (see DNR impaired waters map tool: <a href="http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer">http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer</a> ).	x		1, 4
m.	Identification of sites for winter (frozen or snow covered ground) applications that meet criteria in tables 4 and 5 for manure - NR 243.14(6-8) - AND methods explaining how they will be met. (NOTE: Fields selected for winter application must have the lowest risk of pollutant delivery to waters of the state and have winter acute loss index value of 4 or less using the Wisconsin Phosphorus Index).	x		1, 9
n.	Documentation of adequate storage (180 days) and methods of maintaining adequate storage - NR 243.14(9) and NR 243.17(3).	x		1
<b>3.</b>	<b>Are the following field features identified as restricted or high risk areas on spreading maps:</b> (NOTE: Checking yes requires plan narrative to describe methods or procedures to identify, avoid, eliminate or minimize the surface or ground water quality risk each feature represents).			
a.	Private, non-community drinking water well (100ft setback).	x		4
b.	Community drinking water well (1,000ft setback).	x		4
c.	Soils within 24 inches of apparent water table or bedrock at time of application (NOTE: water table depth may vary over time and requires field investigation to determine actual depth to groundwater before application).	x		4, 13
d.	Fields over 200 ppm soil test phosphorus (manure spreading prohibited unless department approval).	x		1
e.	Direct conduits to groundwater (100ft setback).	x		4
f.	SWQMA areas and 100ft prohibition, or equivalent. (NOTE: maps must identify all conduits to navigable waters. These include: ditches, concentrated flow channels, sinkholes, agricultural well heads, open tile line intake structures or open vent pipes in fields that discharge to navigable waters and <i>grassed waterways that drain directly</i> to a navigable water). See	x		4

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NMP  
Yes No Section

	DNR navigable waters fact sheet: <a href="http://www.dnr.state.wi.us/org/water/fhp/waterway/factsheets/index.html">http://www.dnr.state.wi.us/org/water/fhp/waterway/factsheets/index.html</a> .			
g.	Wetlands and 25ft setback OR start of the SWQMA if connected to navigable water - NR 243.14 (4)(a)(2)	x		4
h.	Fields adjacent to or with high potential to drain to impaired or outstanding/exceptional waters (see DNR impaired waters map tool: <a href="http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer">http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer</a> ).	x		4
i.	Soils with: (1) High Permeability; (2) Within 20 inches to bedrock; or (3) Within 12 inches to apparent water table. (see Appendix 1, WI Tech Note WI-1 <a href="http://www.wi.nrcs.usda.gov/technical/technotes.html">http://www.wi.nrcs.usda.gov/technical/technotes.html</a> ).	x		4
j.	Fields with ephemeral erosion, reoccurring gullies or concentrated flow channels. (NOTE: fields with such soil erosion features do not meet 'T' and cannot receive manure until stabilized with perennial vegetation or other runoff reducing practices. Once established, manure cannot be applied within vegetated flow channels/grassed waterways. If detected, please describe in narrative how and when such areas will be stabilized before any manure is applied to the field.) No fields with ephemeral erosion, reoccurring gullies, or concentrated flow channels were identified.		x	1
k.	Fields exceeding T – tolerable soil loss - over the crop rotation. None exceed.		x	12
l.	Subsurface drainage systems (e.g., drain tiles and their outlets).	x		1
4.	Does field size and planned manure spreading to all fields reflect acreage lost to SWQMA or other required setbacks?	x		1
5.	Is phosphorus being correctly managed:			
a.	Fields 50-100ppm P: Balance P needs over a maximum 8 year rotation?	x		12
b.	Fields 100-200ppm P: Drawdown P by 50% cumulative crop removal over a maximum 4 year rotation AND P Index ≤ 6?	x		1, 12
c.	Is commercial P above 20lbs in starter being added to fields over 50 ppm P?		x	12
6.	Are manure analyses being taken, at least annually, for every sample point in the permit and being used to develop the plan? If not completed yet, provide schedule when manure testing will be completed in narrative when plan will be updated with this information.	x		1, 6
7.	Is all manure produced by the farm allocated over the entire rotation or five year permit term? (NOTE: A rotation may be longer or shorter than a five year permit term. If shorter than 5-years, the rotation must repeat or be amended to reflect, at least, the 5 year permit term).	x		1, 12
8.	Are all commercial fertilizers and off-farm nutrients included for every year of rotation?	x		1
9.	Are all fields owned, rented or in agreements with farm that have, or are planned to, receive manure or process wastewater included in plan? (NOTE: Once a field is included in the plan it must remain so regardless of use/status for the 5-year permit term or rotation – this includes fields used only once during permit term or a rotation. For such fields, projecting what nutrients may be applied is required.)	x		1, 12
10.	Are all fields in plan managed for the entire rotation? Managed for the entire rotation means: Planning for the sequence of crops, tillage, budgeting and application of nutrients for up to an 8-year period in order to determine field rotational soil loss, rotation avg. P Index, and applicable manure or legume credits for each rotation year.	x		1, 12
11.	If any fields in plan do not receive manure during the rotation, do they follow UW A2809 crop recommendations for other applied nutrients?	x		1, 12
12.	Are calibrations provided in plan for all manure hauling equipment (including equipment not owned by the farm)? If no, provide schedule when calibrations will be completed in narrative.		x	1
13.	Does plan include copies of soil testing for all NMP fields and manure testing results? If not completed yet, provide in narrative a schedule when testing for soil for specific fields or manure will be completed and when plan will be updated with this information.	x		6, 7
14.	Does plan contain fields with high potential for N leaching to groundwater? If yes, do these fields meet NRCS 590 soil temperature, application rate and timing restrictions?	x		1, 4, 12, 14
15.	Does plan contain NRCS 590 response procedures for manures, organic byproducts and fertilizer applications that cause drainage to subsurface tiles, ponding or runoff? (NOTE: Such procedures must include methods to prevent offsite movement of nutrients - via subsurface tile discharge or surface runoff - to waterways and notify DNR of spills or accidental release).	x		10
16.	If available, have prior year(s) records (e.g., crop, tillage, nutrients applied) been included in NMP calculations to reflect what actually happened on each field vs. what was planned?	x		1, 12
17.	Are any fields receiving over-applications of nitrogen based on UW Publication A2809? See SNAP-Plus Application Restriction Compliance Check in Tab 12.	x		12

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NMP  
Yes No Section

By signing below I certify the CAFO nutrient management plan criteria listed above is: (1) in compliance with all NR 243.14 and applicable NRCS 590 criteria, and (2) all plan requirements have been, or will be, reviewed with farm operator/owner.

*Nicholas A. Binkette*

3-1-13

*Signature of qualified nutrient management planner*

*Date*

**Additional comments or clarifications on checklist items (if necessary, use additional pages):**



## Ebert Enterprises, LLC Narrative

Ebert Enterprises, LLC is a dairy operation located in Kewaunee County, Wisconsin. The operation operates in the Kewaunee River, Ahnapee River, and Stony Creek Watersheds. The operation has 3 building sites; the Main Dairy, Heifer Facility, and Longfellow Farm. Primary crops grown by the operation are corn silage, corn grain, winter wheat, winter triticale, sorghum sudangrass, and alfalfa.

### Farm sites with expected animal numbers for first year of permit and remaining permit term (next 4 yrs).

The following tables provide the current and expected animal numbers that will be included for the first year permit term and the remaining permit term (4 years). Current and projected animal numbers are consistent with the final A.U. Calculation Worksheet(s) (form 3400-25A) – see WPDES application documents submitted by Conestoga-Rovers & Associates. Please be advised that future years are an estimate of animal numbers and actual numbers may vary from these values. Actual animal numbers will be revised in the NMP Annual Updates.

#### Main Dairy Number of Animals

Year	Herd Size (Milk+Dry+1000lbHeifer+600lbHeifer+Calf)	Total Animal Units
2013	2,747 (2,567+90+90+0+0)	3,819
2014	3,715 (2,332+364+145+437+437)	4,283
2015	4,131 (2,592+405+162+486+486)	4,763
2016	4,590 (2,880+450+180+540+540)	5,292
2017	5,100 (3,200+500+200+600+600)	5,880

#### Heifer Facility Number of Animals

Year	Herd Size (1000lbHeifer+600lbHeifer+Calf)	Total Animal Units
2013	913 (418+185+310)	633
2014	510 (0+200+310)	182
2015	510 (0+200+310)	182
2016	510 (0+200+310)	182
2017	510 (0+200+310)	182

**Longfellow Farm Number of Animals**

Year	Herd Size (Dry+1000lbHeifer+600lbHeifer+Calf)	Total Animal Units
2013	2,054 (335+1,049+582+88)	1990
2014	2,117 (0+1,467+650+0)	2,117
2015	2,329 (0+1,614+715+0)	2,329
2016	2,626 (0+1,776+850+0)	2,626
2017	2,800 (0+1,800+1,000+0)	2580

**Total Number of Animals From all Sites**

Year	Herd Size (Milk+Dry+1000lbHeifer+600lbHeifer+Calf)	Total Animal Units
2013	5,714 (2,567+425+1,557+767+398)	6,441
2014	6,342 (2,332+364+1,612+1,287+747)	6,468
2015	6,970 (2,592+405+1,776+1,401+796)	7,150
2016	7,726 (2,880+450+1,956+1,590+850)	7,938
2017	8,410 (3,200+500+2,000+1,800+910)	8,642

**Expected amounts and types of manure and process wastewater produced on annual basis**

All sources and correlating manure generation volumes were calculated by Conestoga-Rovers & Associates. Tables showing their calculations are included in Tab 6 of this NMP.

**Manure Liquids and Solids Volumes Generated for all sites and sources**

Year	Total Liquids	Total Solids
2013	40,946,918 gallons	18,670 tons
2014	45,041,609 gallons	20,537 tons
2015	49,545,769 gallons	22,590 tons
2016	54,500,345 gallons	24,849 tons
2017	55,349,161 gallons	24,949 tons

**Other nutrient sources for land application (NRCS 590 requirement)**

Other nutrient source generated, stored or received by this operation includes feed storage leachate and runoff, waste feed, and solid storage runoff. All nutrient sources generated or received by the farm have been included in the total manure and process wastewater volume calculations within this NMP. Please refer to tables provided by Conestoga-Rovers & Associates in Tab 6 of the plan for calculations of other nutrient sources of waste to be land applied to the fields.

**Volumes of Other Nutrient Sources to be Land Applied**

Liquid Waste Sources	Volume of Waste Collected	Solid Waste Sources	Total Amount
Runoff Collection	(gallons) See note below.		
<b>Total Liquid Waste Sources</b>	(gallons) See note below.	<b>Total Solid Waste Sources</b>	0 tons

These volumes match the liquid numbers already included in the liquid manure volumes listed above.

**Amount of manure, process wastewater and other sources to be land applied**

Please refer to Tab 6 of the plan for calculations/analysis for table value and Tab 3 of plan for land application schedules for specific fields.

**Total Amount of Manure, Process Wastewater and Other Sources to be Land Applied**

Year	Total Liquids created	Total Liquids applied	Total Solids created	Total Solids applied
2013	40,946,918 gallons	43,110,954 gallons	18,670 tons	18,581 tons
2014	45,041,609 gallons	54,417,880 gallons	20, 537 tons	31,454 tons
2015	49,545,769 gallons	52,912,630 gallons	22,590 tons	33,338 tons
2016	54,500,345 gallons	52,744,010 gallons	24,849 tons	34,279 tons
2017	55,349,161 gallons	53,037,695 gallons	24,949 tons	33,785 tons

**Anticipated frequency and method(s) of land application**

Ebert Enterprises, LLC anticipates applying manure according to the following schedule: approximately four seasons per year in spring, summer, fall, or winter when allowed. Spreading will occur in spring before planting and in fall after harvest and after harvests of alfalfa, wheat and other crops. Winter spreading may occur when allowed and conditions are favorable. Please refer to Tab 3 and 12 of the plan for land application schedules for specific fields. Please also refer to Tabs 4 and 14 of the plan for map and field verification procedures that will be followed to verify areas of fields that are prohibited from manure spreading and NR 243 or NRCS 590 setback requirements are followed.

Ebert Enterprises, LLC anticipates using the following equipment to spread liquid and solid manure on fields in NM plan: liquid tankers capable of using a splash pan for liquid manure and process wastewater. In the fall and spring, liquid manure will be injected as much as possible or incorporated immediately (SWQMA) or within 48 hours of surface application (non-SWQMA) whichever applies. All liquid or solid manure that is surface applied will be done in accordance with all NR 243 and NRCS 590 rules. In the summer, liquid manure may be top dressed on some alfalfa fields. All manure spread on Ebert Enterprises, LLC is hauled and applied by Ebert Enterprises, LLC or custom applied by De Broux Custom Work, LLC.

Irrigation may also be used to land apply manure. An irrigation application protocol and irrigation restriction maps are included in Tab 5. They will need to be consulted to ensure compliance with the NRCS CPS 590 standard, NR 243, and NR 214. SNAP-Plus reports for the fields anticipated to receive irrigation applications of liquid manure are included in Tabs 3 and 12.

Nutrient values for the applications of liquid manure via irrigation use the same averaged liquid manure values as the rest of the plan. However, it is anticipated that manure samples collected at the time of irrigating will be much lower than past averaged values. This will be due to the practice of pulling liquid directly off of the top of the third stage manure storage (Sample Point 004). Manure samples will be collected at the time of an irrigation event and will be averaged in a manner similar to the past to more accurately predict nutrient values

Other practices may be added to the protocol list if seen necessary after completing some irrigation events.

**Other methods of use, disposal, distribution or treatment of manure or process wastewater**

Ebert Enterprises, LLC does not plan any other methods of use, disposal, or distribution of manure or process wastewater at this time.

**Total acreage available (by landowner) for land application owned, rented or in 'agreements'.**

The landownership table in Tab 1 summarizes this information. The farm has a total of approximately 6,313.2 spreadable acres of land available after various restricted areas have been accounted for.

**Total land application acres available – 6,313.2**

**Acres owned – 1,795; Acres Rented – 3,182; Acres in agreements – 1,683.9**

Land in the farm called Stauber Farms is also included in Kinnard Farms WPDES Re-application NMP. No manure is currently planned to be land applied on Stauber Farms from Ebert Enterprises, LLC. If manure from Ebert Enterprises, LLC does get planned to be applied to Stauber Farms, communication will occur with Nathan Nysse, the NMP writer for Kinnard Farms, to ensure nutrients are not over applied.

There are some fields in the Ebert Enterprises, LLC NMP that are also listed in other municipalities' land application sites. There is a list of these fields included in Tab 1. Efforts will be made to increase communication on such fields, to minimize the chance of an over-application of nutrients.

**Tillage and crop rotation information for all fields owned or rented or in 'agreements'**

Please refer to Tabs 3 and 12 of plan for tillage, crop rotation and land application schedules for specific fields.

**Nutrient crediting requirements - NR 243.14(3)**

When selecting manure and process wastewater application rates for all fields, Ebert Enterprises, LLC has taken into account:

1. soil nutrient levels prior to land spreading
2. known nutrient applications from other sources, including:
  - a. commercial fertilizers
  - b. bio-solids
  - c. **first and second year** manure and legume credits
  - d. other sources of nutrients that are expected to be applied or have already been applied to fields.

Adjustments will be made to assumed nutrient credits based upon actual crop yields.

**SWQMA application restriction option for each field AND procedures- NR 243.14(4)**

For all fields, the most common SWQMA management practice will follow SWQMA option 1 - no application of manure or process wastewater within 25 feet of a navigable water, conduit to navigable water or wetland; and inject or immediately incorporate manure and process wastewater in all other areas within the SWQMA.

However, if immediate incorporation of manure does not occur, Ebert Enterprises, LLC will follow SWQMA option 5 – No application of manure or process wastewater within 100 feet of navigable water or conduit to navigable water.

**Phosphorus delivery method (Soil Test P or P Index) and P management procedures for each field- NR 243.14(5)**

Ebert Enterprises, LLC will use the P Index for all fields within the NMP. Please refer to Tab 12 of plan for this information.

Ebert Enterprises, LLC will follow the P Management procedures listed below when applying manure and process wastewater to fields to demonstrate compliance with NR 243.14(5)(b) and applicable NRCS 590 requirements:

**Fields with less than 50 ppm:**

- N application rates allowed up to the N needs of the following crop or the N removal of the following legume crop.

OR

- Rotational average PI values for each field shall be 6 or lower. PI is calculated using up to 8 year rotation using current Wisconsin P Index calculations. P applications on fields with PI > 6 may be made only if additional P is needed according to UWEX soil fertility recommendations.

**Fields with soil test P between 50-100 ppm:**

- P application shall not exceed the total crop P removal for crops to be grown over maximum 8 year rotation.

OR

- Rotational average PI values for each field shall be 6 or lower. PI is calculated using up to 8 year rotation using current Wisconsin P Index calculations. P applications on fields with PI > 6 may be made only if additional P is needed according to UWEX soil fertility recommendations.

**Fields with soil test P between 100-200 ppm:**

- The rotational average P Index value for the crop rotation or for the next 4 year period, whichever time period is less, will be calculated.
- When P Index is > 6, manure application(s) to field are prohibited.
- When P index is < 6, manure applications allowed with P drawdown by 50% cumulative crop removal over a maximum 4 year rotation will be implemented.

**Fields with soil test P greater than 200 ppm:**

- P applications from manure and process wastewater prohibited, unless approved by DNR.
- The planned average WI P Index value for the crop rotation or for the next 4 year period, whichever time period is less, will be calculated.
- P drawdown by 50% cumulative crop removal over a maximum 4 year rotation will be implemented.

**Soil Test P fields**

At this time, all fields will follow the P Index Phosphorous Management Strategy.

All fields using soil test P will be included within a **current** conservation plan for Ebert Enterprises, LLC, or use the erosion assessment tools included with the P Index model. Ebert Enterprises, LLC conservation plan **meets** the NRCS 590 criteria (V.C.2.b) below and addresses all soil erosion consistent with **current crops and management** or uses the erosion assessment tools included within the WI P Index model.

NRCS 590 Conservation Plan Criteria - (V.C.2.b)

The plan must be developed by and field verified by a conservation planner to document crop management and the conservation practices used to control sheet and rill erosion to tolerable levels (T) and to provide treatment of ephemeral soil erosion.

- The conservation plan must be signed by the land operator and approved by the county land conservation committee or their representative.
- A conservation planner must develop conservation plans using the minimum criteria found in the USDA, NRCS National Planning Procedures Handbook and the WI Field Office Technical Guide.
- In crop fields where ephemeral erosion is an identified problem, a minimum of one of the following runoff reducing practices shall be implemented:
  - Install/maintain contour strips and/or contour buffer strips.
  - Install/maintain filter strips along surface waters and concentrated flow channels that empty into surface waters that are within or adjoin areas where manure will be applied.
  - Maintain > 30% crop residue or vegetative cover on the soil surface after planting
  - Establish fall cover crops.

All fields using soil test P that have a high potential to deliver phosphorus to 303(d) listed waters impaired by nutrients or outstanding and exceptional resource waters, shall be managed by Ebert Enterprises, LLC to ensure:

- (1) soil test P levels shall not increase over a crop rotation unless DNR provides written approval.
- (2) Same fields that have soil test phosphorus below optimum levels, soil test P levels shall not increase over a rotation above the optimum level for the highest demanding phosphorus crop in a rotation.

#### **Field proximity to nutrient impaired or outstanding/ exceptional waters - NR 243.14(5)**

Please refer to Tab 4 of plan for maps showing locations of fields in proximity to these types of waters. To complete these maps, Ebert Enterprises, LLC used the following tools:

DNR 2008 impaired waters list:

<http://dnr.wi.gov/org/water/wm/wqs/303d/2008/2008Updates.htm>

DNR surface water map tool – used to ID impaired or outstanding or exceptional waters:

<http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=SurfaceWaterViewer>.

#### **Identification of sites for winter (frozen or snow covered ground) spreading – NR 243.14(8)**

Ebert Enterprises, LLC plans to spread manure onto fields in the NMP during winter (frozen or snow covered ground) conditions.

For compliance with NR 243.14(8) winter spreading sites requirement, fields Cmeyla E, KV-1, and LT North have been selected for winter application(s) if application(s) of liquid or soild manure become necessary. Fields Cmeyla E, KV-1, and LT North have been evaluated by Ebert Enterprises, LLC to meet the NR 243 criteria in Tables 4 and 5 for manure and criteria in 214.17(2) and (6) for process wastewater. Ebert Enterprises, LLC has also determined these fields represent the lowest pollutant delivery to waters of the state and have winter acute loss index value of 4 or less using the Wisconsin Phosphorus Index. In addition, Ebert Enterprises, LLC will evaluate these same fields at the time of manure application to determine if conditions are suitable for applying manure and complying with the requirements of NR 243.14(8).

#### **Manure Stacking – NR 243.141**

All manure stacking sites used by Ebert Enterprises, LLC shall be included in this NMP and must receive DNR review and approval before use. All manure stacking sites shall be selected for compliance with all requirements of NR 243.141. Please refer to Tab 8 of the plan for additional manure stacking site(s) information.

#### **Documentation of 180 days storage and methods for maintaining storage - NR 243.14(9) and NR 243.17(3)**

Please refer to Engineering documents in the WPDES Application submitted by Conestoga-Rovers & Associates for manure storage capacity calculations. Please refer to Tabs 3 and 12 of plan for land

application schedules for specific fields – this schedule demonstrates how Ebert Enterprises, LLC will maintain 180 days storage capacity over time.

**General Manure and process wastewater application requirements – NR 243.14(2)(b)(1-13)&(c-f)**

Ebert Enterprises, LLC will take several actions to ensure all manure and process wastewater is land applied in compliance following general landspreading requirements of NR 243.14:

- No ponding on application site
- During dry weather, no runoff from the application site, nor discharge to waters of the state through subsurface drains
- No causing fecal contamination of water in a well
- Unless rain event is greater than 25 yr/24 hr event and farm complies with NMP and WPDES permit, no runoff from the application site, nor discharge to waters of the state through subsurface drains due to precipitation or snowmelt
- No application on saturated soils
- Maximize use of available nutrients, prevent delivery of manure and process wastewater to waters of the state, and minimize the loss of nutrients and other contaminants to waters of the state to prevent exceedances of groundwater and surface water quality standards and to prevent impairment of wetland functional values
- Retain nutrients in the soil with minimal movement
- No application within 100 feet of direct conduits to groundwater
- No applications within 100 feet of private well and 1000 feet of commercial well
- No application on fields with soils that are 60 inch thick or less over fractured bedrock when ground is frozen or where snow is present.
- No application when snow is actively melting such that water is flowing off a field.
- 

Please refer to Tab 4 of the plan for spreading maps that visually describe how the farm will meet many of these general spreading requirements.

To demonstrate compliance with the NR 243.14 general land application requirements above, Ebert Enterprises, LLC will complete, on an ongoing basis, map and field verification procedures (listed below) to ensure spreading maps are accurate (including soil types, slopes and slope lengths), SWQMA or well setback distances are followed and prohibited conditions/features on fields are identified and avoided when spreading manure or process wastewater to NMP fields. The procedures demonstrate how land application activities will be in compliance with NR 243.14 or NRCS 590 restrictions throughout the permit term.

The prohibited conditions/features that Ebert Enterprises, LLC will evaluate for on each field include: ephemeral erosion or concentrated flow channels, saturated soils, intermittent and perennial streams, grassed waterways, wetlands, lakes, drinking wells, areas of field with bedrock or groundwater within 24 inches of field surface, wells and other direct conduits to groundwater - NR 243.14(2)(b)(3),(5),(6), (7-12). These areas have been inventoried and marked on restriction maps (see Section 4 of plan).

Ebert Enterprises, LLC will maintain written and/or visual records of ongoing field and map verification actions to demonstrate compliance with NR 243.14 requirements. Please refer to Tab 14 of the plan for this information.

### **Field and Map Verification Procedures**

Prior to spreading manure onto fields, Ebert Enterprises, LLC will appoint someone who will complete the following map and field verification procedures to ensure all manure spreading will be in compliance with NR 243 and 590 criteria:

- Spreading maps will be reviewed by Nick Guilette of AgSource Laboratories and someone appointed by Ebert Enterprises, LLC to identify all restricted or prohibited features and setback distances on field
- Fields will be inspected for restricted or prohibited features; any new conditions/features will be identified.
- Once identified, prohibited field features will be avoided and setback distances (as depicted on spreading maps or in NR 243 or NRCS 590) will be measured and followed during manure spreading.
- Spreading maps will be updated with any new prohibited/restricted field features or conditions.
- A log will be kept with the NMP to track the map and field verification procedures listed above. The log will track:
  - (a) date(s) review took place
  - (b) person(s) involved.
  - (c) fields verified
  - (d) any new field features or conditions identified on fields
  - (e) photos or other documentation of field features or conditions reviewed

### **Avoiding manure or process wastewater field runoff or ponding– NR 243.14(2)(b)(1), (2)&(6).**

Please refer to field and map verification procedures and NRCS 590 requirements for runoff and ponding.

### **Surface applications & precipitation forecast for runoff within 24 hours – NR 243.14(2)(b)(13)**

For this NMP, *surface* applications of manure will not be completed when rain events above 1/2 inch are forecasted within 24 hours of the time of planned applications. Surface application means manure that is applied and left on the surface of the field. Surface application does not mean manure that is surface applied and then incorporated into the soil.

Prior to manure applications to fields, weather.com or www.accuweather.com will be used to track weather forecast data. This information will be used determine the risk for forecasted precipitation to cause run-off from fields. Weather forecast data will be printed or saved to disc and kept with the NMP. All weather forecast data will be submitted with annual reports as an attachment.

### **Drain tile fields & tile discharges to surface waters -NR 243.14(2)(b)(2),(4)&(6) and NRCS 590 (V.A.1.k)**

Drain tile discharges of manure and process wastewater from fields to surface waters are not allowed under NR 243. The following fields have been identified to have drain tiles: Hunsaders, Cmeyla, W, 8<sup>th</sup>

Rd South, Longfellow East, and Hawks 2. Please see Tab 2 of plan for additional drain tile field information. Drain tile discharges of manure and process wastewater to surface waters will be prevented or responded to by Ebert Enterprises, LLC via the following procedures:

**Prior to spreading manure onto fields with drain tiles:**

- UW extension Guidelines for Preferential Flow of Manure in Tile Drainage will be reviewed by Ebert Enterprises, LLC:  
[http://www.extension.org/pages/Preferential\\_Flow\\_of\\_Manure\\_in\\_Tile\\_Drainage](http://www.extension.org/pages/Preferential_Flow_of_Manure_in_Tile_Drainage)
- The following UW Discovery Farm Drain Tiles documents will be reviewed by Ebert Enterprises, LLC:  
Understanding and Locating Drain Tiles  
<http://www.uwdiscoveryfarms.org/pdf/pubsnewsres/DF-TD1.pdf>  
Tile Talk With Discovery Farms, Third Edition, Pages 4-5  
<http://www.uwdiscoveryfarms.org/pdf/pubsnewsres/newsltr1006.pdf>
- Spreading maps will be reviewed to identify known drain tile locations
- Fields will be inspected for drain tile presence or outlets; any new tile outlets/subsurface drainage systems will be identified
- All tile outlets will be visually checked for flow and water conditions (e.g., clear, colored, foam, odor, etc).
- Results of all visual tile monitoring will be tracked – using form in Tab 14 - and kept with NMP
- Planned manure spreading (rates and locations) on fields will be evaluated and then limited or adjusted, as necessary, according to the following criteria:
  1. Available water holding capacity of the soil
  2. Depth of injection
  3. Clay soil considerations
  4. Concentration of Application from spreading equipment type used
  5. Are known tile drains flowing?
  6. Shallow tillage (3 to 5 inch depth) used or not used prior to application to disrupt the continuity of worm holes, macropores and root channels (preferential pathways) to reduce the risk of manure reaching drain lines.
  7. Perennial Crop and No Till precautions

**During and after manure spreading on fields with drain tiles, best management practices will be followed:**

- Visual inspection of tile outlets for flow and water conditions (e.g., clear, colored, foam, odor, etc.)
- Containing manure or process wastewater tile discharges from release into waterway(s)
- Notifying DNR of any spills/discharges to waterways from tiles
- Reducing application rates or delaying application(s) to tiled fields
- Setbacks from tiled areas
- Immediate tillage/ incorporation of applied manure
- Use of other manure application equipment (e.g., sweeps)
- Update NMP spreading maps or narrative
- Results of visual inspections of tiles will be tracked – using form in Tab 14 of this plan and kept with NMP.

Please also refer to NRCS 590 requirements for field runoff, ponding and drainage to subsurface tiles.

**Manure applications to areas of fields with shallow groundwater or bedrock – NR 243.14(2)(b)(7).**

NR 243 prohibits manure applications on areas of fields that have groundwater or bedrock within 24 inches of the field surface at time of application. Ebert Enterprises, LLC will demonstrate compliance with this prohibition by:

- Implementing DNR guidance, dated March 2009. Please refer to Tab 13 of the plan for the DNR guidance.

**Daily Spreading Log and Annual Reports for DNR – NR 243.19**

Ebert Enterprises, LLC will maintain daily spreading log for all manure or process wastewater applications to NMP fields for compliance with NR 243.19. The daily spreading log will also be used to complete required annual reports for DNR. Ebert Enterprises, LLC recognizes the daily spreading log and annual reports are essential to document actual management practices used by Ebert Enterprises, LLC and the resulting soil erosion and water quality impacts on specific fields. Ebert Enterprises, LLC will use daily spread logs that are contained in Tab 14 of the plan to complete Daily spreading and annual reports. Please refer to Tab 14 of plan for this information.

Please also refer to NRCS 590 requirements for Annual Updates to NMP.

**Manure spreading equipment calibration and Manure concentration testing – NR 243.19**

Ebert Enterprises, LLC will appoint someone who shall conduct or require periodic inspections and ongoing calibration of landspreading equipment to detect leaks and ensure accurate application rates for manure and process wastewater. Initial calibrations shall be followed by additional calibration after any equipment modification or after changes in manure or process wastewater consistency and/or source. At a minimum, calibration of all manure spreading equipment used by Ebert Enterprises, LLC shall be completed annually and recorded. Ebert Enterprises, LLC will follow manure spreading equipment calibration information provided in Tab 6 of the plan.

Ebert Enterprises, LLC will appoint someone who shall analyze all manure and process wastewater sources applied to fields in accordance with WPDES permit conditions. Samples shall be collected so they are representative of all manure or process wastewater sources applied to fields. All manure and process wastewater sources shall be analyzed for Nitrogen, Phosphorus, and percent solids in years where manure and process wastewater is applied. Ebert Enterprises, LLC will follow sampling methods found in UW publication A3769, Recommended Methods of Manure Analysis:

<http://learningstore.uwex.edu/Assets/pdfs/A3769.pdf> . Please refer to Tab 6 of the plan for manure and process wastewater sampling records and related information.

## Wisconsin NRCS 590 Requirements

### Dominant Critical Soil

Each field in this NMP is managed to meet NRCS dominant critical soil criteria:

<http://www.datcp.state.wi.us/arm/agriculture/land-water/conservation/nutrient-mngmt/pdf/ChoosingCriticalSoilType.pdf>

The dominant critical soil is the most erosive soil that covers at least 10% of the field area. The dominant critical soil type was selected for all fields listed in the NMP to ensure corresponding rotational T – tolerable soil loss - values for each field are accurate for compliance with NRCS 590 requirements. Please refer to Tab 12 of plan for this information.

### T – Tolerable soil loss

Each field in this NMP is managed to meet T – tolerable soil loss - over the crop rotation. T values were calculated using NRCS RUSLE 2 model. No nutrient applications (manure, fertilizer) are allowed on fields that fail to meet T. Erosion controls shall be implemented so that tolerable soil loss (T) over crop rotation will not be exceeded on fields that receive nutrients. Please refer to Tab 12 of plan for information showing each field's tolerable and actual soil loss.

### Soil Testing

Each field in the NMP is managed for compliance with NRCS A2100 soil testing criteria:

<http://www.datcp.state.wi.us/arm/agriculture/land-water/conservation/nutrient-mngmt/pdf/uwex-a2100.pdf>.

Accordingly, all fields in this NMP either meet or are managed to meet A2100 criteria over time. Please refer to Tab 7 of the plan for this information. For fields in this NMP that do not currently meet A2100, one of the following management options will be implemented by Deer Run Dairy until soil testing can be completed:

1. Manure will not be applied to field;
2. Field will be managed as if P levels are greater than 100 ppm P according to NR 243.14(5) criteria for all manure applications to field.

### Application and budgeting of nutrients – consistent with NRCS 590 standard and soil fertility recommendations found in A2809.

Each field in the NMP is managed to address the source, rate, timing, form and method of application and budgeting *of all* nutrient sources (i.e., including soil reserves, commercial fertilizer, manure, organic byproducts –animal mortality and composting materials - legume crops and crop residues) generated or accepted by the farm and applied to fields. Please refer to Tabs 3, 7, and 12 of plan for this information.

### Other sources of nutrients to be land applied (NRCS 590 requirement)

Please refer to Tab 6, and 7 of plan for calculations/analysis for values and Tab 3 and 12 of plan for specific fields and application amounts and schedules (e.g., spring, summer or fall).

Commercial fertilizer sources will be used to supplement the nutrient needs of growing crops where manure is not applied or manure applications do not supply adequate nutrients to meet crop recommendations contained in UW Extension A2809. Where practical, the commercial fertilizer amounts have been projected out and the as applied amounts will be included in the Annual Spreading Reports submitted to DNR. Commercial fertilizer sources will be applied in accordance with the recommendations contained in UW-Extension A2809.

Future years in the Snap-Plus file include manure and fertilizers containing phosphorous in their analysis. Nitrogen and potassium fertilizer recommendations will be updated in future years to reflect actual manure applications.

### **Crop Yield Goals**

Each field in the NMP is managed according to yield goals that are attainable by the farm under average growing conditions and established using multi year documented yields kept by the farm. Farm yield goals in this NMP shall not be set higher than 15% above the previous 3-5 year average. Absent field/farm specific yield goals data, yield goals in this NM plan will be set using Wisconsin county average crop yields found at National Agricultural Statistics Service:

[http://www.nass.usda.gov/Data\\_and\\_Statistics/index.asp](http://www.nass.usda.gov/Data_and_Statistics/index.asp) Please refer to Tabs 3 and 12 of plan for this information.

### **Records of soil and manure testing results**

Ebert Enterprises, LLC has completed and retained records showing recent soil testing and manure testing results. Please refer to Tabs 6 and 7 of the plan for this information. Ebert Enterprises, LLC acknowledges that soil testing of some fields or manure analyses is out of date and needs to be completed. Ebert Enterprises, LLC plans to correct out-dated soil tests by the spring or fall of 2013.

### **Fields with concentrated flow channels resulting in reoccurring gullies or ephemeral erosion**

Ebert Enterprises, LLC will evaluate fields on an ongoing basis each year for presence or flow channels or other types of ephemeral soil erosion. If fields show evidence of concentrated flow channels resulting in re-occurring gullies or ephemeral erosion, the following actions will be taken by the farm:

- Spreading maps will be updated to reflect areas with concentrated flow channels;
- Manure will not be spread on fields with concentrated flow channels, until perennial vegetative cover is established in all areas of concentrated flow;
- A schedule for establishing perennial vegetative cover in all areas of concentrated flow as well as implementation dates will be recorded and kept with this NMP.
- One or more NRCS 590 runoff reducing practices for crop fields with ephemeral erosion will be selected and implemented. Practices selected and implementation dates will be recorded and kept with this NMP.

Once vegetated flow channels/grassed waterways established within fields, such areas will be maintained to perform their intended function and manure will not be applied within these areas.

### **Fields with high potential for N leaching to groundwater - soil temperature, application rate and timing restrictions**

Fields in this NMP have been evaluated for soils with high potential for N leaching to groundwater for compliance with NRCS 590 requirements. Please refer to Tab 4 of plan for this information. When manure is applied fields with soils classified as having a high potential for N leaching to groundwater and the soils are > 50 degrees F, the potential exists for rapid N mineralization. The risk for N mineralization and loss (via leaching to groundwater) is a concern the farm will manage for. As such, Ebert Enterprises, LLC will measure soil temperatures prior to field applications in late summer or Fall. Soil temperature logs will be kept with manure spreading records/reports and maintained over time for compliance recordkeeping requirements. The farm will follow the following procedures for compliance with NRCS 590 soil temperature, application rate and timing restrictions:

- If any fields are found to be > 50 degrees F, Ebert Enterprises, LLC will strictly follow section V, B, 2 of NRCS 590 standard.
- If any fields are found to be < 50 degrees F, Ebert Enterprises, LLC will strictly follow section V, B, 3 of NRCS 590 standard.

### **Field Inspection and Response Procedures for manure ponding, runoff from fields or drainage to subsurface tiles.**

Ebert Enterprises, LLC will evaluate field and weather conditions prior to and during mechanical applications of **manures, organic byproducts and fertilizer** to ensure that applied material(s) do not cause ponding, runoff, or drainage to subsurface tiles.

The following response procedures will be followed by Ebert Enterprises, LLC if/when ponding, runoff or drainage to subsurface tiles occurs during and/or after applications to fields:

1. Stop application immediately (if field application not finished)
2. Containment measures (e.g., earth berms, pumps, temporary pits, tillage, incorporation) will be implemented immediately to prevent off-site movement from field.
3. Changes in application rate, method, depth of injection or timing to the field shall be implemented during any future application to eliminate ponding, runoff or drainage to subsurface tiles.
4. Farm shall notify DNR of any spills or accidental release to comply with Ag Spill Law (289.11) or term of WPDES permit.

### **Annual Updates**

This NMP will be updated annually. Each NMP annual update for Ebert Enterprises, LLC shall include records/documentation of all soil or manure analyses as well as crops, tillage, nutrient application rates, and methods actually implemented on each field that receives nutrients. Annual updates are essential to document actual management practices and resulting soil erosion and water quality impacts on specific fields.

**NS1A and 1B**



**Date: 3/1/2013**  
**Field: NS1A and 1B**  
**Farm: Home West of D**  
**Grower: Ebert Enterprises, LLC 797**  
**Area: 107.96 ac**  
**Lat: 44.58046°N**  
**Lon: 087.50568°W**



One in = 336 feet  
0 113 226 338 451 564



Boundary

( 107.96 ac)



# Longfellow East



**Date:** 3/1/2013  
**Field:** Longfellow East  
**Farm:** Home  
**Grower:** Ebert Enterprises, LLC 797  
**Area:** 107.25 ac  
**Lat:** 44.55658°N  
**Lon:** 087.47543°W



One in = 406 feet  
0 136 273 409 545 682



Boundary

( 107.25 ac)



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
BG, BG East, BG South, Cmeyla S, Ed Riedy, Hunsaders, KD, Longfellow East, MC.RN, RE West, RK.DS, TB, TS	945.3	Randy & Renee Ebert	Owned	N	
8th Rd South, Longfellow West	129.9	Randy & Renee Ebert, Silver Legend Lake Investments, LLC	Owned & parts are rented	N	
Bosdeck CK, HE, HE East, HE North, HE West, NS	110.1	Randy & Renee Ebert, David Bosdech	Owned & parts are rented	N	
	273.2	Henry Ebert	Long term rental agreement from Randy's father	N	
Cmeyla E	56.5	Randy & Renee Ebert, Jeffery Cmejla	Owned & parts are rented	N	
Cmeyla W	102.2	Randy & Renee Ebert, Arnold Cmejla	Owned & parts are rented	N	
Cty	68.8	Randy & Renee Ebert, Grace Lutheran Church	Owned & parts are rented	N	



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
DB	103.7	Randy & Renee Ebert, Shirley Nell	Owned & parts are rented	N	
EH North	52	Randy Ebert, Brian Kuss, John Fenske	Owned & parts are rented	N	
EH South	74.6	Randy & Renee Ebert, Shirley Nell, John Gregorich	Owned & parts are rented	N	
JD.ND	81.3	Randy & Renee Ebert, Norbert Derenne, Darin Duffeck	Owned & parts are rented	N	
LA	67	Randy & Renee Ebert, Vicki Anderson	Owned & parts are rented	N	
NS East	39.3	Randy & Renee Ebert, Henry Ebert, Michael LeGrave	Owned & parts are rented	N	
PG	62.4	Randy & Renee Ebert, John Rybski	Owned & parts are rented	N	
Rankin	19	Randy & Renee Ebert, James Vandertie, David Bosdech	Owned & parts are rented	N	
RT.TS	48.4	Randy & Renee Ebert, William Classon, Tim Schmidt	Owned & parts are rented	N	
AD East, AD North, AD Northeast, AD South, AD West	117	Alan Dettman	1 yr (long lasting) verbal rental agreement	N	



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
AK	23.5	Allen Kirchman	1 yr (long lasting) verbal rental agreement	N	
AM	8.7	Jeffrey Rabas, Rabas Brothers LLC, James and Dorothy Rabas	1 yr (long lasting) verbal rental agreement	N	
B Neuzil	96.5	Bonnie Neuzil, Glenn Guilette,	1 yr (long lasting) verbal rental agreement	N	
BM East	72.1	Brian Marit	1 yr (long lasting) verbal rental agreement	N	
BS North, BS South	32.5	Robert Salzsieder	1 yr (long lasting) verbal rental agreement	N	
CE	14.4	Craig Engelking & Daniel Jr. Doperalski	1 yr (long lasting) verbal rental agreement	N	
Cemetery	15.9	Wiesner Cemetery & Randy Kleiman	1 yr (long lasting) verbal rental agreement	N	
DD	17.3	Donald Duffman	1 yr (long lasting) verbal rental agreement	N	
DH 1	16	Dean Hackett	1 yr (long lasting) verbal rental agreement	N	
DJ North	14.4	Robert Collins Trust	1 yr (long lasting) verbal rental agreement	N	
DJ South	11.7	William Daanen, Robert Collins Trust	1 yr (long lasting) verbal rental agreement	N	
DM	52.1	Steven Mueller	1 yr (long lasting) verbal rental agreement	N	
DW	36.3	David Walter	1 yr (long lasting) verbal rental agreement	N	
ER1, ER2, ER3, ER4.5.6, ER7, ER8	90.8	Dennis, John, & Ed Riedy	1 yr (long lasting) verbal rental agreement	N	
Evergreen Cem.	5.4	City of Algoma	1 yr (long lasting) verbal rental agreement	N	



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
FSC	110.1	Bertha Stoller, Russell Stoller	1 yr (long lasting) verbal rental agreement	N	
FSC Hills	29.9	Frank Stoller Const. Co. Inc.	1 yr (long lasting) verbal rental agreement	N	
Haas	16.9	Daniel Boyle	1 yr (long lasting) verbal rental agreement	N	
HK East	25.1	Jon Koehler	1 yr (long lasting) verbal rental agreement	N	
HK West	34.5	Harolod Koehler Trust	1 yr (long lasting) verbal rental agreement	N	
HW	20	Herbert Wehausen	1 yr (long lasting) verbal rental agreement	N	
JB	154	John Bitzan	5 yr verbal rental agreement	N	
JD	17.5	Darin Duffeck, Marshall Maxwell	1 yr (long lasting) verbal rental agreement	N	
JE.GM	23.1	James Engelking, Gary Marit	1 yr (long lasting) verbal rental agreement	N	
Katie	71.5	Katie Jo Duescher, Kurt Burmeister	1 yr (long lasting) verbal rental agreement	N	
Knapmiller	41.5	Leonard Knappmiller	1 yr (long lasting) verbal rental agreement	N	
KV 1	34.3	Ron Kleiman	1 yr (long lasting) verbal rental agreement	N	
KV 2	40	Ron Kleiman, Randy Kleiman	1 yr (long lasting) verbal rental agreement	N	
LT North	45.5	James Tebon	1 yr (long lasting) verbal rental agreement	N	
LT South	45.1	Thomas Mauer Trust, Randal Sibilsky, Sharon Tebon	1 yr (long lasting) verbal rental agreement	N	



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
LW	8	Steven Eis	1 yr (long lasting) verbal rental agreement	N	
MC	11.6	Lew Duchateau	1 yr (long lasting) verbal rental agreement	N	
Meier	20	Richard Meier	1 yr (long lasting) verbal rental agreement	N	
Mike S1, Mike S2, Mike S3, Mike S4, Mike S5, Mike S6, Mike S7	150.2	Michael Seidl	1 yr (long lasting) verbal rental agreement	N	
MJ	29.4	Stanley Matyshak, Marvel Junion, Kevin Zellner	1 yr (long lasting) verbal rental agreement	N	
ML.BH	13.1	Robert Harris, Michael Leist	1 yr (long lasting) verbal rental agreement	N	
MR	105.7	Milton Rodrian Trust, Dragon II Properties LLC	1 yr (long lasting) verbal rental agreement	N	
Neil	5.5	Shirley Nell	1 yr (long lasting) verbal rental agreement	N	
R. Neuzil	40	Roger Neuzil	1 yr (long lasting) verbal rental agreement	N	
RI	14.7	Ethel Zimmerman Trust	1 yr (long lasting) verbal rental agreement	N	
RK North, RK South	18.7	River's Bend Estate LLC	1 yr (long lasting) verbal rental agreement	N	
RS	41.5	Sheri Acherman	1 yr (long lasting) verbal rental agreement	N	
RT 1, RT North, RT South	87.4	Ron Tassoul	1 yr (long lasting) verbal rental agreement	N	
Seiler	10	Daniel Seiler Trust	1 yr (long lasting) verbal rental agreement	N	



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
SH	114.4	Joseetta M. Staats Trust, Philip Staats Trust	5 yr verbal rental agreement	N	
SK, SK East SL East, SL South, SL West	32.2 191.1	Shirley Klatt Staats Family Limited Partnership	1 yr (long lasting) verbal rental agreement 5 yr verbal rental agreement	N N	
Smidt	36	Mark Smidt	1 yr (long lasting) verbal rental agreement	N	
Smith	62.2	Leonard Mazurkiewicz, Stephanie Bertrand	1 yr (long lasting) verbal rental agreement	N	
SO	157.7	Philip Staats Trust	5 yr verbal rental agreement	N	
Teske E	106.4	Glenn Teske Trust, Mary Thorpe, Michael Vandervest	5 yr verbal rental agreement	N	
Teske N, Teske W	63.6	Glenn Teske Trust.	5 yr verbal rental agreement	N	
TM North, TM South	43.8	Terry Marquardt	1 yr (long lasting) verbal rental agreement	N	
1, 3 (Jerry Barta land) 2, 4, 6, 7, 8 (Jerry Barta land) 5 (Jerry Barta land)	128.2 73.7	Wolf-42 LLC, Thomas Stoller Thomas Stoller	Verbal manure agreement with the operator - Jerry Barta Verbal manure agreement with the operator - Jerry Barta	Y Y	Jerry Barta operates the field Jerry Barta operates the field
W-2, W-3, W-4	3.5 122	George Dondlinger Wolf-42 LLC	Verbal manure agreement with the operator - Jerry Barta Verbal manure agreement with the operator - Jerry Barta	Y Y	Jerry Barta operates the field Jerry Barta operates the field
P1, P4, P5	65	Shawn Prodell	Verbal manure agreement with the operator - Prodell Harvest Acres	Y	Prodell's Harvest Acres operates the field



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

<b>Field Name</b>	<b>Acres</b>	<b>Land Owner Name</b>	<b>Agreement Type</b>	<b>Shared Land* Y/N</b>	<b>Additional Field Info</b>
Airport, W1 & 2	13	Donald Walter	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
B1	3.6	Heather Vardon	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
EP1	3	Ron Prodehl Et Al	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
M1, M2	43.9	Ronald Moede Trust	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 10 & MC 11A	4	Rebecca Prokash & Sharon McCosky	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 11 & MC 12	11.8	Douglas & Brian McCosky	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 13	6.3	Rebecca Prokash & Brian McCosky	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 14	20.3	Rebecca Prokash	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 15	10	William McCosky	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 16	1.6	Brian McCosky	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 17	2.1	Bruce McCosky & Rebecca Prokash	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
MC 9	7.3	Sharon McCosky & Douglas McCosky	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
N1	3	Bonnie Neuzil	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
Naze	3.8	Wayne Naze	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
S1	75	Gerald Jacobs, Donald Gilson, James Stoller Et Al	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field
S 2, S 3	76.3	James Stoller Et Al	Verbal manure agreement with the operator - Prodehl Harvest Acres	Y	Prodehls Harvest Acres operates the field



Ebert Enterprises, LLC Land Ownership, Rental and Manure Lease Agreements

Field Name	Acres	Land Owner Name	Agreement Type	Shared Land* Y/N	Additional Field Info
H10.11.12.13, H1.2, H3.4, H5.6, H7.8, H9, JAH 1, JAH 2, M1.2, M3.4	424.5	Stauber Farms	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
E1	5	Merle Stauber	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
Hawks 1, Hawks 2	78	Robert Haack	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
HO 1.2, HO 3 J1.2.3, J4.5.6.7, J8.9.10, J 11, J 12	50.9	Dorothy Holub Trust	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
JAH 3	193.1	John Joski	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
JW 1	5.5	Kim & Ann Deda	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
LC 1	53	Jerry Wierer & John Wierer	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
Silo 1, Silo 2	30	Donna Urban	Verbal manure agreement with the operator - Stauber Farms	Y	Stauber Farms operates the field
1 (John Zeitler land)	60	Pechous Family Partner.	Verbal manure agreement with the operator - Roger Teske	Y	Roger Teske operates the field
2, 3, 4, 5, 6, 7, 8, 9, 10 (John Zeitler land)	4.4	John & Harold Zeitler	Verbal manure agreement with the operator - John Zeitler	Y	John Zeitler operates the field
	102.1	John Zeitler	Verbal manure agreement with the operator - John Zeitler	Y	John Zeitler operates the field

\*NOTE: Shared land means fields that receive nutrients from more than one farm or nutrient source (e.g., manure, industrial wastewater, commercial fertilizer, septage, etc). These fields must be carefully tracked within the NMP.



## Land application sites occurring in more than 1 plan.

### **Ebert Dairy Enterprises LLC**

Field: JB SE 01

Overlapped with Thiry Daems Cheese field: DDG10

Field: JB SE W-1

Overlapped with Thiry Daems Cheese field: DDG9

Field: JB SE W3

Overlapped with Packerland Whey Products field: DDG6

Field: JB SE W2

Overlapped with Packerland Whey Products field: DDG6

Field: JBSE 02

Overlapped with Thiry Daems Cheese field: DDG11

Field: JB SE 03

Overlapped with Thiry Daems Cheese field: DDG7

Field: JB SF P1

Overlapped with Algoma WTF field: AO4 and AO5

Field: LW2

Overlapped with Algoma WTF field: AT12

Field: DM1

Overlapped with Algoma WTF field: AT6

Overlapped with Casco WTF field: CRT1

Field: County Farm

Overlapped with Agropur Inc Luxemburg field: DKU5

Field: Silo-1

Overlapped with Algoma WTF field: AT2 and AT3

Agropur Inc Luxemburg field: GM3



Good Afternoon Nick and Randy,

I have completed my initial review of Ebert Enterprise's nutrient management plan for permit reissuance. Here is a list of comments, questions and requests I have:

- Fields HA7, HA19, and HA12 have a map included in the plan but are not found in the snap plus reports. Are these fields intended to be included in the plan? If yes, they must be management by snap plus.

Fields HA7, HA19, and HA12 make up the field called Hawks 1 in the Stauber Farms Snap-Plus reports. The field called Cemetery has been lost since the 5 year plan was turned in earlier.

- Many fields included in the plan are also found in Kinnard Farm's NMP (this was pointed out in the narrative). Ebert Enterprises currently doesn't have any manure application plans on these fields however; Kinnard Farms does. These applications by Kinnard Farms must also be tracked in Ebert Enterprise's NMP if these fields wish to be included in the plan.

Fields that are found in Kinnard Farm's NMP will require close communication with Nathan Nysse (NMP planner for Kinnard Farms). Before any applications occur on these acres, Ebert Enterprises will need to double check with Nathan Nysse about possible planned applications from Kinnard Farms.

- Does Ebert Enterprises plan on submitting an NMP Update by the end of the month? Typically a farm wouldn't have to submit an update the same year as permit reissuance however; there is some other information we would need such as the 2012 spreading logs.

Information for the 2013 NMP update has been included in this submittal. I have only included folders for updated information.

- Ebert Enterprises selected fields Cmeyla E, KV-1, and LT North as winter spreading sites. LT North doesn't have a winter spreading restriction map included in the plan. Please submit this map. Also, winter spreading includes those months outside of the months of February and March if there is any amount of snow on the ground and/or greater than a half inch of frozen soil. If Ebert Enterprises plans on spreading in certain months of the year (such as December and January) and there is snow or an inch or greater of frozen soil; they would need to have those fields approved for winter spreading. Only those three fields mentioned would be approved for winter spreading.

Updates to fields chosen for winter spreading will occur over the summer and spreading restriction maps will be developed for chosen fields.

- Most of field RK North is within 1000 feet of two municipal wells. This area is restricted from receiving any manure. I would suggest no manure applications to this field. I've attached a map showing the locations of the wells; add these municipal wells to the restriction map. Please submit the updated map.

The spreading restrictions for the map including field RK North has been updated and is included.



- The following fields do not meet A2100 soil sampling requirements and have planned manure applications: B Neuzil, DB (for irrigation), Cemetery, ED Riedy, ER 4.5.6, Nell, Silo 1, Katie, Silo 2, and Meier. Either these fields do not have enough samples to meet the one sample per five acres or they have not been sampled within the last four years. It's stated in the narrative that these fields (along with some others) will be resampled this fall however; until then these fields should either be planned to receive no manure or have a soil test P defaulted to 101 and set to a four year rotation.

A copy of the Snap-Plus Soil Test report that was included in the past Dueschers Legendairy Farms NMP has been attached as part of this response. This report addresses the issues of the number of samples collected for the following fields: B Neuzil, Ed Riedy, ER 4.5.6, Silo 1, Silo 2, Katie, and Meier. B Neuzil is the combination of A Neuzil 1 through A Neuzil 6 from this report. ER 4.5.6 is the combination of ER 4, ER 5, and ER 6 from the report. Katie is the combination of Eric S-2 and Eric Seidl from the report. Meier is the combination of Talley 1 and Talley 2 from the Dueschers Legendairy Farms NMP soil test report. The Cemetery field is not being run by Ebert Enterprises like we had planned during the 1<sup>st</sup> submittal. Fields DB and Nell have 4 year rotations with soil test P levels at 101 ppm until updated soil test data is collected.

- Is the field size used for planned manure applications reflective of acres lost due to restrictions? If not, are adjustments made prior to spreading to account for these lost acres?

Field size is all acres for the field. When manure applications are made, application rates are given to DeBroux Custom Work, LLC. They use flow meters and monitors in tractors to determine actual application rates while land spreading.

- Once these changes and comments are addressed please resubmit any updated maps, 590 assessment and the planned spreading reports for all five years of the permit term. You can send this electronically to me at [joseph.baeten@wisconsin.gov](mailto:joseph.baeten@wisconsin.gov).

If you have any questions regarding my review please feel free to contact me.

Thank you,

Joe Baeten

 *Joseph B. Baeten*

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