

Grande Cheese Company – Brownsville, WI  
November 24, 2020

# Water Quality Trading Plan

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## Attachments

- A – Notice of Intent (NOI) to Conduct Water Quality Trading
- B – Lease Agreements with Farmers
- C – Watershed, Subwatershed, and Field Maps
- D – SnapPlus Modeling Reports (Historic)
- E – SnapPlus Modeling Reports (Updated)
- F – “Practice Registration Form” 3400-207
- G – Water Quality Trading Checklist





## 1 Introduction

This Water Quality Trading Plan summarizes the plan for Grande Cheese Company (Grande) in Brownsville, WI to use water quality trading to comply with phosphorus discharge limits in its Wisconsin Discharge Elimination System (WPDES) permit for Outfall 003. Grande's discharge falls within the Rock River Total Maximum Daily Load (TMDL). As part of the TMDL, the baseline phosphorus index (PI) is assumed to be 6. Grande's discharge is in Reach 12. Reach 12 is expected to reduce the nonpoint source load of phosphorus by 29% and of total suspended solids (TSS) by 19% through implementation of the TMDL.

Grande owns several agricultural fields around their Brownsville production facility. These fields are leased to area farmers. In 2018, Grande changed their lease agreements to create longer-term contracts with the farmers that manage their land. The 2018 leases extend through 2023. These long-term leases allow the farmers to incorporate alfalfa and cover crops into their crop rotation and manage the fields to a PI of 1 to 2.

Grande has used SnapPlus modeling to quantify the amount of potentially tradable phosphorus and potentially tradeable TSS from the fields assuming historic (pre-2018) practices which were in place had continued, and then the amount after initiation of the long-term contracts in 2018 with fields in Whole Field Management.

Grande currently utilizes the Multiple Discharge Variance (MDV) to comply with its TMDL-derived final phosphorus limits. This WQT Plan provides the department with documentation of the credits that have been generated by Grande with the understanding that WQT cannot be implemented in the WPDES permit until Grande can offset the entirety of their excess phosphorus via WQT. In other words, WQT cannot be used in conjunction with the MDV. Grande recognizes that this plan may need to be updated closer to the time of the reissued permit which will implement the Trade.

Using a credit ratio of 1.2:1, Grande calculated the phosphorus water quality credits available per year based on the change in management practice. Grande will use these credits to demonstrate compliance with the total phosphorus limits in their WPDES permit once the effluent phosphorus load is sufficiently reduced or sufficient credits are secured to offset the entirety of the facility's load in excess of the TMDL-derived limit.

## 2 Background

### *2.1 Purpose for Water Quality Trade*

The purpose of this Water Quality Trading Plan is to describe Grande's use of water quality trading in the future to comply with the Total Phosphorus limits assessed at Outfall 003 of WPDES permit WI-0050016. This Water Quality Trading Plan was





developed pursuant to the Notice of Intent to Conduct Water Quality Trade included in Attachment A.

In particular, Grande will trade with property owned by Grande in the same HUC-12 subwatershed as Outfall 003. The fields are currently managed by two different farmers however, the fields have not always been managed by the same farms. As such, they have been labeled as Field A and Field B throughout this report. The phosphorus index (PI) from the fields is being managed to generate phosphorus credits to comply with the Total Phosphorus limits Grande’s WPDES permit. Grande has entered into agreements with the farmers that manage their property. A lease agreement from 2015-2016 for each farm is provided in Attachment B as an example of conditions before longer-term leases and whole field management were put in place starting in 2018. The 2018-2023 lease agreements with each farm is also provided in Attachment B.

Grande’s permit includes monthly TMDL-derived phosphorus and TSS limits as shown in Table 1. Although Grande is currently able to comply with their TMDL-derived TSS limits, this trade does generate TSS credits in addition to phosphorus. TSS credits have been quantified in this plan for potential future sale to other permittees.

**Table 1: Effluent Limitations  
 Total Phosphorus and Total Suspended Solids**

Month	Monthly Ave TSS Effluent Limit [lbs/day]	Daily Max TSS Effluent Limit [lbs/day]	Monthly Avg TP Effluent Limit [lbs/day]
January	63	140	3.73
February	69	160	3.98
March	63	140	2.95
April	63	140	2.36
May	63	140	2.06
June	63	140	2.85
July	63	140	2.66
August	63	140	2.71
September	63	140	2.50
October	63	140	2.66
November	63	140	3.11
December	63	140	3.40

Based on effluent data from January 1, 2015 – December 31, 2019, Grande would need to offset 600 – 1,700 lb TP/yr of phosphorus to comply with their final TMDL-derived phosphorus effluent limits. However, Grande is working on water conservation efforts in the production facility and believes they will be able to reduce their phosphorus mass discharge considerably. Grande will continue to utilize the MDV until they can sufficiently



reduce their phosphorus mass discharge either by water conservation efforts or source reduction measures. In the future, Grande will use the available credits that are generated as a result of this trade, discussed further in Section 5, to achieve compliance with the final phosphorus effluent limits.

## ***2.2 Location of Outfall and Fields***

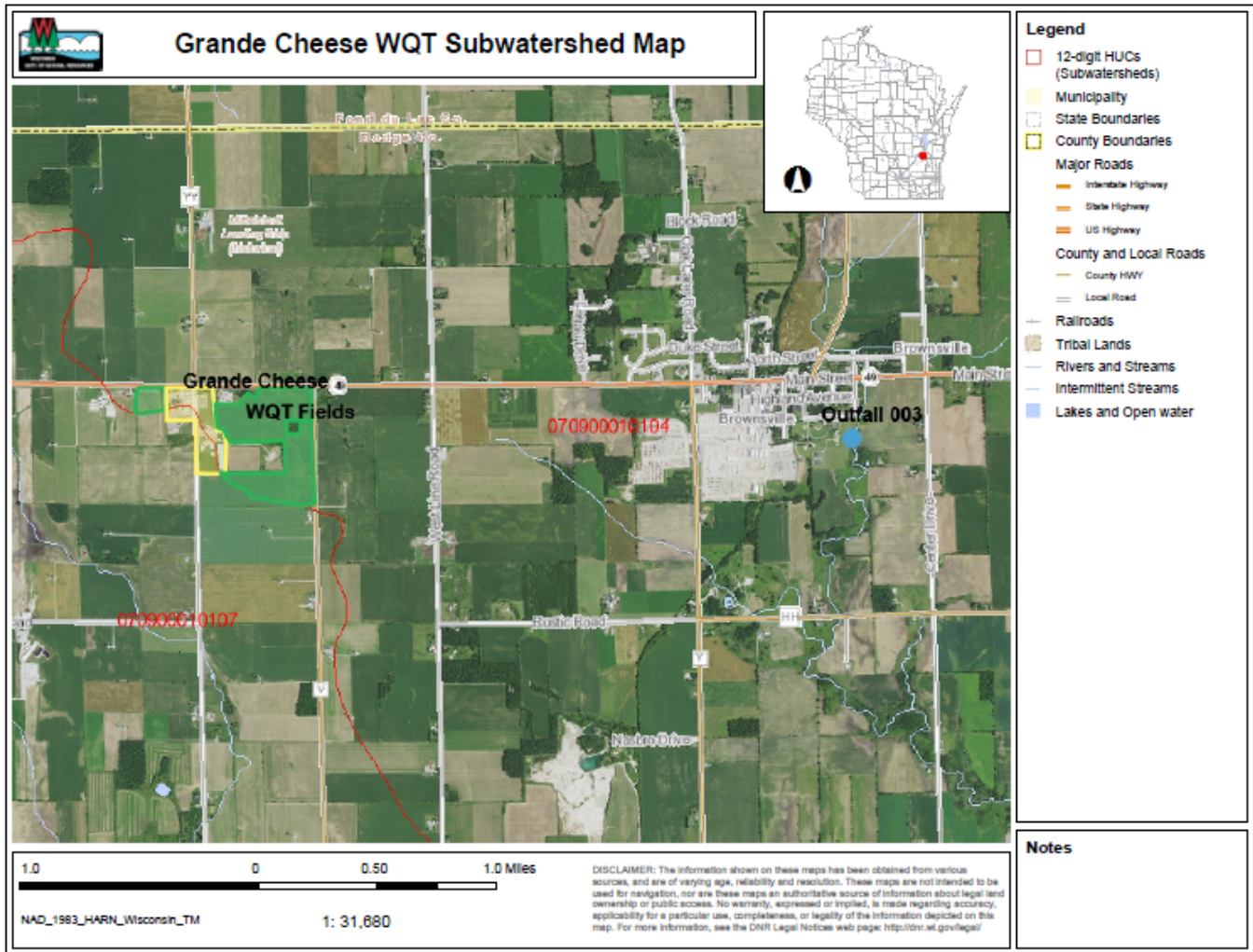
### **2.2.1 Location of Outfall 003**

Grande discharges treated process wastewater to Kummel Creek (aka Kiefer Creek WBIC 863500) through Outfall 003 at approximate latitude of 43.6127°N and longitude of 88.4865°W. Outfall 003 is located in HUC12 Subwatershed 070900010104, which is also known as the Kummel Creek Subwatershed. The Kummel Creek Subwatershed is part of the larger East Branch Rock River Watershed (0709000101) in the Upper Rock River subbasin (07090001). Kummel Creek Subwatershed is subject to a total maximum daily load (TMDL) for total phosphorus and total suspended solids. Figure 1 below depicts the location of Outfall 003 in the Subwatershed. This is also given in Attachment C.

### **2.2.2 Location of the Fields**

Grande has implemented the management practices to generate phosphorus and TSS credits on property they own. All 88.3 acres of the proposed trade fields are downstream of Outfall 003 in the Kummel Creek Subwatershed. The map in Figure 1 below shows the location of the trade fields (shown in green) in relation to the production facility and WWTP (shown in yellow) and Outfall 003 (shown in blue). This map is also provided in Attachment C.

**Figure 1**  
**Subwatershed Map with Outfall and Fields**



The Trade fields are located within the Town of LeRoy (Dodge County, WI) and include portions of parcels 1111-000, 1221-000, 1222-000, 1223-000, 1224-000. These parcels are all located in SEC 12 TWP 13N R 16E. Note that some portions of parcels listed above fall into the East Branch Rock River Subwatershed (HUC-12 070900010107). The Rock River TMDL does not allow downstream trades in other HUC-12 subwatersheds, so these fields are not eligible to trade with Grande’s Outfall 003.

Grande owns seven parcels that are within, or partially within, the Kummel Creek Subwatershed. This encompasses 88.3 acres within the Kummel Creek Subwatershed. Table 2 below shows the parcels, acreage within the subwatershed, and involvement in the Trade.



**Table 2:  
 Parcels in Subwatershed Owned by Grande**

Parcel ID	Total Acreage	Total Acreage in Subwatershed	Previously Farmed Acreage in Subwatershed used to generate Credits
028-1316-1224-000	40.00	40.00	27.30
028-1316-1223-000	38.26	19.00	5.40
028-1316-1222-001	14.84	14.84	0.00
028-1316-1222-000	26.60	26.60	16.60
028-1316-1221-000	40.00	40.00	32.70
028-1316-1111-001	20.05	6.24	0.00
028-1316-1111-000	19.95	8.21	6.30
<b>TOTAL</b>	<b>199.70</b>	<b>154.89</b>	<b>88.30</b>

All farmed acreage within the subwatershed will be used to generate Trade credits. The unfarmed acreage, which does not generate credits for the water quality trade, is made up of the production facility, wastewater treatment plant, and some wet areas of the fields.

### **3 Existing Conditions and Potentially Tradeable Phosphorus Modeling**

#### ***3.1 Existing Land Use of the Fields***

Grande’s agricultural land is currently farmed by two different farmers. Parcels 1221-000, 1222-000, 1223-000, and 1224-000 are referred to as Field A, and Parcel 1111-000 is referred to as Field B. Only commercially purchased fertilizer has been applied to the Grande fields since 2014. Therefore, there would be no benefit to the farmer to overapply nutrients to these fields and the water quality trade will result in a net reduction of phosphorus in the watershed.

Following finalization of the phosphorus rule in 2010, Grande decided to pursue water quality trading on land that they own surrounding the Brownsville production facility. Change in management practices began in 2015, with more substantial efforts in 2018 when long-term contracts with the farmers were implemented to encourage use of cover crops.

Fields are managed to maintain a PI of 1 to 2.

#### ***3.2 Soil Sampling***

Soil samples were taken on Field A in 2016. Soil samples were taken on Field B in 2005, 2009, and 2016. These sample results show a reduction in soil phosphorus over time. The sample results were used to calculate the current and future potentially

tradeable phosphorus for the water quality trade. Results of the SnapPlus reports using these site-specific soil conditions can be found in Attachments E and F.

A NRCS soils map of the fields is provided in Attachment C.

### 3.3 *SnapPlus Modeling*

SnapPlus V2 (version 19.3.20132.1702) was used to model the fields under historic cropping practices and practices that reflect Grande’s change in management practices.

Table 3 provides cropping and nutrient application history for the fields. This data was used to complete the SnapPlus modeling.

**Table 3: Historic Cropping and Nutrient Application**

Year	Field A Nutrient	Field A Crop	Field B Nutrient	Field B Crop
2016	10 gal/ac of 28-0-0 10 gal/ac of 6-21-5 150 lb/ac of 0-0-60 250 lb/ac of 46-0-0	Corn Grain	50 lb/ac of 21-0-0 150 lb/ac of 0-0-62	Soybeans 30-36” Rows
2017	100 lb/ac of 18-46-0 178 lb/ac of 0-0-60	Soybeans 7-10” Rows	100 lb/ac of 21-0-0 100 lb/ac of 0-0-62 25 lb/ac of 46-0-0	Peas
2018	10 gal/ac of 28-0-0 10 gal/ac of 6-21-5 150 lb/ac of 0-0-60 250 lb/ac of 46-0-0	Corn Grain	50 lb/ac of 21-0-0 150 lb/ac of 0-0-62	Winter Wheat (Grain & Straw)

### 3.4 *Trading Requirements Within a TMDL*

A credit threshold is the pollutant loading below which reductions are made to generate credits. The credit threshold establishes the amount of pollutant reduction that is necessary before credits may be generated. For agricultural areas addressed by an approved TMDL, the credit threshold is set to reflect the TMDL load allocation (LA).

Agricultural nonpoint source credit generators, like the fields that Grande will use for their water quality trade, that are located in a watershed with an approved TMDL generate two types of credits; interim and long-term credits. Interim credits are generated by load reductions that achieve the credit threshold and, therefore, can be generated only when the current pollutant load exceeds the applicable LA. Long-term credits are generated by load reductions obtained below the LA credit threshold.

The duration of interim credits equals the lifespan of the management practice employed to reduce pollutant loads, or 10 years, whichever is shorter. Once interim



credits have expired, the credit user may replace them with new interim credits, which would last another 10 years or life of the management practice, or they may utilize long-term credits.

The nonpoint source baseline in the Rock River Basin is a phosphorus index (PI) of 6. Grande is located in Reach 12 of the Rock River TMDL so a 29% reduction in nonpoint source TP and a 19% reduction in nonpoint source TSS is required from the baseline load, see Appendix H of the 2011 Rock River TMDL. Reductions in nonpoint source load from a PI of 6 to a PI of 4.3 (29% reduction) would generate interim credits. All reductions below a PI of 4.3 would be considered long-term credits. The existing P Index for all fields owned by Grande are less than or equal to 2, so all credits generated at the site will be considered long-term.

### 3.5 *Modeled PTP Under Historic Conditions*

Attachment D includes the following SnapPlus reports assuming historic (pre-2018) cropping practices continued into the future:

- Narrative and Crop Report
- Soil Test Report
- Application Summary Report
- Manure Tracking Report
- Fields Data and 590 Assessment Plan
- Nutrient Management Report
- P Trade Report
- Sediment Trade Report

Tables 4 and 5 summarize the Potentially Tradeable Phosphorus (PTP) and Potentially Tradeable Total Suspended Solids (PTTSS) from the SnapPlus P Trade and Sediment Trade Reports, respectively, using the historic (pre-2018) crop and application rotation.

**Table 4**  
**SnapPlus Potentially Tradable Phosphorus– Historic Crop Rotation (lbs/yr)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	4	4	4	4	3	4
Field B	82.1	329	310	321	303	313	297
<b>TOTAL</b>	<b>88.3</b>	<b>333</b>	<b>314</b>	<b>324</b>	<b>307</b>	<b>316</b>	<b>301</b>



**Table 5**  
**SnapPlus Potentially Tradable TSS - Historic Crop Rotation (tons/yr)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	0.51	0.31	0.51	0.31	0.51	0.31
Field B	82.1	56.30	59.85	56.15	59.80	56.11	59.78
<b>TOTAL</b>	<b>88.3</b>	<b>56.81</b>	<b>60.16</b>	<b>56.66</b>	<b>60.11</b>	<b>56.61</b>	<b>60.09</b>

***3.6 Modeled PTP with Updated Crop Rotation***

The fields were then modeled by replacing the historic crop rotation with the updated crop rotation in Whole Field Management. The same SnapPlus reports as were done for the historic crop rotation are available for the updated crop rotation modeling in Attachment E. Tables 6 and 7 below summarize the PTP and PTTSS given by SnapPlus for updated crop conditions.

**Table 6**  
**SnapPlus Potentially Tradable Phosphorus– Updated Crop Rotation (lbs/yr)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	7	2	2	1	0	0
Field B	82.1	195	96	82	65	50	37
<b>TOTAL</b>	<b>88.3</b>	<b>202</b>	<b>99</b>	<b>84</b>	<b>66</b>	<b>50</b>	<b>38</b>

**Table 7**  
**SnapPlus Potentially Tradable TSS– Updated Crop Rotation (tons/yr)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	0.76	0.28	0.13	0.08	0.02	0.01
Field B	82.1	34.84	12.18	9.20	6.37	3.97	2.29
<b>TOTAL</b>	<b>88.3</b>	<b>35.60</b>	<b>12.46</b>	<b>9.33</b>	<b>6.44</b>	<b>3.99</b>	<b>2.30</b>

***3.7 Calculation of Change in PTP Based on Modified Land Use***

Based on the change in land use from historic to current crop rotations, total PTP and PTTSS were then calculated. Table 8 is a calculation of the difference of the values in Tables 4 and 6 above. Similar calculation can be done for Table 9. These tables do not incorporate the trade ratio which is discussed further in Section 4 of this report. The trade ratio must be included to determine final credits generated.



**Table 8**  
**Calculated Potentially Tradable Phosphorus (lbs/yr)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	-3	2	2	3	3	4
Field B	82.1	134	214	239	238	263	260
<b>TOTAL</b>	<b>88.3</b>	<b>131</b>	<b>215</b>	<b>240</b>	<b>241</b>	<b>266</b>	<b>263</b>

**Table 9**  
**Calculated Potentially Tradable TSS (tons/yr)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	-0.25	0.03	0.38	0.23	0.49	0.3
Field B	82.1	21.46	47.67	46.95	53.43	52.14	57.49
<b>TOTAL</b>	<b>88.3</b>	<b>21.21</b>	<b>47.7</b>	<b>47.33</b>	<b>53.67</b>	<b>52.62</b>	<b>57.79</b>

## 4 Trade Ratio Calculation

The PTP and PTTSS generated by the SnapPlus modeling are adjusted by the applicable trade ratio to determine the amount of credits the credit user can receive for the management practice. As described in WDNR’s “Guidance for Implementing Water Quality Trading in WPDES Permits” dated June 1, 2020 (“WQT Guidance”), the trade ratio is the sum of the delivery, downstream, equivalency, and uncertainty factors. The trade ratio can be summarized as:

$$\text{Trade Ratio} = (\text{Delivery} + \text{Downstream} + \text{Equivalency} + \text{Uncertainty}):1$$

See WQT Guidance at Section 3.4. For trades between point sources and nonpoint sources, there is a minimum trade ratio of 1.2:1. See WQT Guidance at page 31.

As described in further detail by factor below, Grande’s management practice changes result in the minimum trade ratio of 1.2:1.

### 4.1 Individual Trade Ratio Factors

#### 4.1.1 Delivery factor:

As discussed earlier, the Fields are within the same HUC12, the Kummel Creek Subwatershed as Grande’s Outfall 003. In addition, the Fields are close, approximately 2.25 miles, to Outfall 003. Because the Fields are within the same HUC12 as the Outfall, the delivery factor is not needed (i.e., it is zero).

The other fields owned by Grande fall in the East Branch Rock River Subwatershed (070900010107). Delivery factors were not included in the development of the Rock River

TMDL, so Grande cannot trade with these fields outside of the HUC12 in which they discharge. They could choose to document the credits generated by these fields for potential future sale to other permittees if desired.

#### 4.1.2 [Downstream factor:](#)

All 88.3 acres of the proposed trade fields are downstream of Outfall 003 and therefore require a downstream factor. Calculation of the downstream factor was done using PRESTO-lite. The PRESTO-lite map and associated report are included in Attachment C.

PRESTO-lite estimates the average annual nonpoint phosphorus load to be 8,206 lbs of phosphorus for the 8057.6-acre subcatchment in which Outfall 003 and the Trade Fields are located. This is equivalent to 1.02 lbs/acre for the subcatchment. Of the subcatchment, approximate 533 acres is downstream of Grande's outfall location, so the load at the point of Grande's outfall is equal to  $1.02 \times (8057.6 - 533)$ , or 7675.1 lbs. Grande's average phosphorus load from 2017 - 2019 was 2,440 lbs/year. This is equivalent to 31.8% of the total load at the point of discharge. Using Section 3.4 of the WQT Guidance, the 88.3 acres downstream of the point of discharge will have a downstream factor of 0.2.

#### 4.1.3 [Equivalency factor:](#)

The permanent vegetative cover management practice on the Fields will reduce phosphorus loadings to the subwatershed. Grande is using the phosphorus credits generated by the management practice change to comply with the phosphorus limits on Outfall 003. Because phosphorus reductions are being used to generate phosphorus credits, an equivalency factor is not needed (i.e., it is zero).

#### 4.1.4 [Uncertainty factor:](#)

Grande's fields have been managed closely via lease agreements and SnapPlus modeling since 2018 to ensure a PI less than 2. Formal nutrient management plans on these fields are not required because manure isn't applied. Riparian buffer strips around the fields would not be significant on these properties due to separate from the waterway. Grassed waterways are also not required due to flat slopes and no areas of concentrated flow. Conservation Tillage and cover crops have been added to the rotation. An additional draw-down strategy isn't needed because manure isn't being applied and it is not in the farmer's best interest to over-apply phosphorus.

According to Appendix H of the WQT Guidance, Whole Field Management that is established and maintained consistent with appropriate NRCS Technical Standard results in an Uncertainty Factor of 1.



#### 4.2 Calculation of Trade Ratio Based on Individual Factors

Inserting the above factors into the WQT Guidance’s trade ratio formula results in a trade ratio of 1.2:1:

$$\text{Trade Ratio} = (\text{Delivery} + \text{Downstream} + \text{Equivalency} + \text{Uncertainty}):1$$

$$\begin{aligned} \text{Trade Ratio} &= (0 + 0.2 + 0 + 1):1 \\ &= 1.2:1 \end{aligned}$$

Grande will use a 1.2:1 trade ratio for the entire 88.3 acres for estimating credits generated by updating their management practices.

### 5 Credit Generation Calculation

For each year, the credit generated from the management practice is the difference between the PTP or PTTSS based on SnapPlus modeling assuming the prior crop rotation was continued and the PTP or PTTSS based on SnapPlus modeling assuming the modified cropping practices are in place on Fields, divided by the credit ratio as shown in the equation below. Tables 10 and 11 show the results of this calculation for each field.

$$\text{Phosphorus Credits Per Year} = (\text{PTP Assuming Crops Rotation Continued} - \text{PTP Assuming Permanent Vegetative Cover}) \div \text{trade ratio}$$

**Table 10**  
**SnapPlus PTP (lb/year) - (trade ratio of 1.2 applied)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	-2.50	1.67	1.67	2.50	2.50	3.33
Field B	82.1	111.67	178.33	199.17	198.33	219.17	216.67
<b>TOTAL</b>	<b>88.3</b>	<b>109.17</b>	<b>179.17</b>	<b>200.00</b>	<b>200.83</b>	<b>221.67</b>	<b>219.17</b>

For example, in 2020 for Field B phosphorus:

PTP Assuming Historic Crop Rotation Continued: 321 lbs P/yr (from Table 4)

PTP Assuming Whole Field Management: 82 lbs P/yr (from Table 6)

Difference: 239 lbs P/yr (321 – 82) (from Table 8)

Trade Ratio: 1.2:1 (from Section 4.2)

PTP Including Trade Ratio: 199.17 lbs P/yr (239/1.2) (from Table 10)

**Table 11**  
**SnapPlus PTTSS (ton/year) - (trade ratio of 1.2 applied)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	-0.21	0.03	0.32	0.19	0.41	0.25
Field B	82.1	17.88	39.73	39.13	44.53	43.45	47.91
<b>TOTAL</b>	<b>88.3</b>	<b>17.68</b>	<b>39.75</b>	<b>39.44</b>	<b>44.73</b>	<b>43.85</b>	<b>48.16</b>

For TSS, WDNR assumes that only 10% of the modeled sediment loss makes it to the waterway. All values in Table 11 are direct from SnapPlus. To incorporate the 10% rule, Table 12 shows the final PTTSS calculations for each field.

**Table 12**  
**SnapPlus PTTSS (ton/year) - (trade ration and 10% rule applied)**

	Acres	2018	2019	2020	2021	2022	2023
Field A	6.2	-0.021	0.003	0.032	0.019	0.041	0.025
Field B	82.1	1.788	3.973	3.913	4.453	4.345	4.791
<b>TOTAL</b>	<b>88.3</b>	<b>1.768</b>	<b>3.975</b>	<b>3.944</b>	<b>4.473</b>	<b>4.385</b>	<b>4.816</b>

For example, in 2020 for Field A TSS:

- PTTSS Assuming Historic Cropping Rotation Continued: 56.15 tons TSS/yr (from Table 5)
- PTTSS Assuming Whole Field Management: 9.2 tons TSS/yr (from Table 7)
- Difference: 46.95 tons TSS/yr (from Table 9)
- Trade Ratio: 1.2:1 (from Section 4.2)
- PTTSS Using Trade Ratio: 39.13 tons TSS/yr (from Table 11)
- Percent of Modeled TSS to Waterway: 10%
- Final PTTSS: 3.913 tons TSS/yr (from Table 12)

For ease of implementation in the WPDES permit, Table 13 below provides to the total TP and TSS credits available in lbs/yr.

**Table 13**  
**Total Final PTP and PTTSS (lbs/yr)**

Final Credits	2018	2019	2020	2021	2022	2023
PTP [lbs/yr]	109	180	200	201	222	219
PTTSS [lbs/yr]	3,536	7,950	7,888	8,946	8,770	9,632

## 6 Management Practice Description

Since 2018, Grande has had lease agreements in place with the farmers to continuously improve the PI. Grande receives annual updates from the farmer related to planned cropping, tilling, and nutrient application practices on their fields to ensure that PI is continuously improved and maintained well below the baseline PI of 6.

**6.1 Operation and Maintenance**

Operation and maintenance of the fields is managed by the tenant farmers. Grande communicates regularly with the farmers to ensure that cropping, tilling, and nutrient application practices do not result in elevation of the PI.

**7 Timeline**

**7.1 History of Management Practice Change and Credit Generation**

Date	Action
November 2011	Grande began discussion of WQT Strategy
October 2017	Met with WDNR to confirm expectations for Water Quality Trade
March 2018	Updated lease agreements with farmers to continuously improve phosphorus index
May 2018	Management practice change implemented
April 2020	Permit Reissuance which includes MDV
TBD	When Grande has sufficiently reduced effluent flow and/or effluent TP, or they have secured additional WQT Credits to offset the entirety of their excess load, the permit will be reissued to reflect WQT

**8 Inspections and Reporting**

**8.1 Water Quality Trading Management Practice Registration**

A completed Registration Form 3400-207 for Water Quality Trading Management Practice Registration (“Practice Registration Form”) is included in Attachment F.

**8.2 Monthly Inspection, Certification, and Reporting**

Each month, Grande will inspect the Fields generating the phosphorus reduction credits to confirm that anticipated management practices have continued. Any photos taken during these inspections can be used to supplement the annual inspections described further in Section 8.3.

Each month, Grande shall also certify that management practice installed to generate phosphorus reduction credits is operated and maintained in a manner consistent with that specified in this Water Quality Trading Plan or a statement noting noncompliance with this Plan. A certification of compliance may be made by including the following statement as a comment on the monthly discharge monitoring report (DMR):

I certify that to the best of my knowledge the management practice identified in the approved water quality trading plan as the source of phosphorus reduction credits is installed, established, and properly maintained.

Usage and reporting of phosphorus credits will also occur on a monthly basis and be submitted on the DMRs.

### ***8.3 Annual Inspections***

Once per year, Grande will inspect the Fields generating the phosphorus reduction credits to confirm implementation of the management practice and that the management practice is being appropriately maintained. This annual inspection shall occur between mid-August and mid-September each year and shall include at least two photographs of each of the Fields; one overall site photo, and one close-up photo of a representative area of the field. As stated in Section 8.2 above, Grande will also certify in their DMRs each month that the practice is still in place and generating credits.

### ***8.4 Notification of Problems with Cover Management Practice***

In accordance with the Operation and Maintenance Plan, Grande will notify WDNR verbally within 24 hours of becoming aware that phosphorus reduction credits used or intended for use by Grande are not being implemented or generated as set forth in this Water Quality Trading Plan. Additionally, within five (5) days of becoming aware of noncompliance, written notification will be provided to WDNR. Both notifications will include the nature of the noncompliance, a description of how the issues will be addressed, and an appropriate timeline to address the issues. Grande shall work to rectify such problems.

### ***8.5 Annual Water Quality Trading Report***

Grande shall report to WDNR by January 31 of each year the following:

- The number of phosphorus reduction credits (lbs/month) used each month of the previous year to demonstrate compliance;
- Photographs from the annual inspection, and monthly inspections if available, of the permanent vegetative cover management practice that generated the phosphorus reduction credits used during the previous years; and
- Identification of noncompliance or failure to implement any terms or conditions WPDES permit WI-0050016 with respect to water quality trading that have not been reported in discharge monitoring reports.

### ***8.6 WDNR Right to Inspect the Fields***

WDNR has the right to inspect the permanent vegetative cover management practice at any time upon giving reasonable notice to Grande to ensure the management practice is in compliance with the NRCS Technical Standards and the terms of this Plan.



# ATTACHMENT A

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## Notice of Intent (NOI) to Conduct Water Quality Trading



Notice: Pursuant to s. 283.84, Wis. Stats., and ch. NR 217 Wis. Adm. Code, this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Applicant Information				
Permittee Name <b>Grande Cheese Company</b>		Permit Number <b>WI- 0050016-08-0</b>		Facility Site Number
Facility Address <b>N11689 Dairy Road</b>			City <b>Brownsville</b>	State <b>WI</b>
ZIP Code <b>53006</b>				
Project Contact Name (if applicable) <b>Lynn Morrison</b>		Address <b>17035 W Wisconsin Ave, Suite 120</b>		City <b>Brookfield</b>
State <b>WI</b>		ZIP Code <b>53005</b>		
Project Name				
<b>Grande Brownsville Water Quality Trade</b>				
Receiving Water Name <b>Kummel Creek</b>		Parameter(s) being traded <b>Phosphorus</b>		HUC 12(s) <b>070900010104</b>

Is the permittee in a point or nonpoint source dominated watershed? 
 Point source dominated  
 Nonpoint source dominated
   
 (See PRESTO results - <http://dnr.wi.gov/topic/surfacewater/presto.html>)

Credit Generator Information	
Credit generator type (select all that apply):	<input type="checkbox"/> Permitted Discharge (non-MS4/CAFO) <input type="checkbox"/> Urban nonpoint source discharge <input type="checkbox"/> Permitted MS4 <input checked="" type="checkbox"/> Agricultural nonpoint source discharge <input type="checkbox"/> Permitted CAFO <input type="checkbox"/> Other - Specify: _____

Are any of the credit generators in a different HUC 12 than the applicant? 
 Yes; HUC 12: \_\_\_\_\_  
 No  
 Unsure

Are any of the credit generators downstream of the applicant? 
 Yes  
 No  
 Unsure

Will a broker/exchange be used to facilitate trade? 
 Yes; Name: \_\_\_\_\_  
 No  
 Unsure

**Point to Point Trades (Traditional Municipal / Industrial Discharge, MS4, CAFO)**

Discharge Type	Permit Number	Name	Contact Address	Is the point source credit generator currently in compliance with their permit requirements?
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unsure
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unsure
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unsure
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unsure
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unsure

**Notice of Intent to Conduct Water Quality Trading**

Form 3400-206 (1/14)

Page 2 of 2

Point to Nonpoint Trades (Non-permitted Agricultural, Non-Permitted Urban, etc.)

List the practices that will be used to generate credits:

Using a nutrient management plan, Grande will modify nutrient application and cropping practices to minimize the phosphorus transport off site.

Method for quantifying credits generated:  Monitoring  
 Modeling, Names: SnapPlusV2 16.3  
 Other: \_\_\_\_\_

Projected date credits will be available: 05/01/2019

The preparer certifies all of the following:

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.

Signature of Preparer




Date Signed

12/19/17

Authorized Representative Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative



Date Signed

12/17/17

# ATTACHMENT B

---

## Lease Agreements with Farmers



## LAND LEASE AGREEMENT

### I. PARTIES:

A. GRANDE CHEESE COMPANY, an Illinois corporation, 301 E. Main Street, Lomira, Wisconsin 53048, hereinafter referred to as "Lessor."

B. ELSINGER FARMS, LLC, N10201 Arthur Road, Lomira, WI 53048, hereinafter referred to as "Lessee."

### II. RECITALS:

A. The Lessor owns the following real property described in Exhibit A hereinafter desires to lease the same to the Lessee pursuant to the terms and conditions of this Lease Agreement.

B. That the parties desire their understanding be reduced to writing.

C. This lease supersedes the previous lease of the parties, if any.

### III. AGREEMENT:

NOW, THEREFORE, in consideration of the mutual covenants herein contained and other good and sufficient consideration,

IT IS AGREED, as follows:

A. Recitals. The Recitals to this Agreement are incorporated herein by reference.

B. Lease. The Lessor does hereby lease to the Lessee and the Lessee does hereby rent from the Lessor the Premises described in Exhibit A attached hereto subject to the terms and conditions of this Lease Agreement.

C. Term of Lease. The term of this Lease Agreement shall be for a period of one (1) year, commencing, March 1, 2015 and ending February 28, 2016.

D. Rent. The Lessee shall pay to the Lessor as rent for the use and possession of the Premises described in Exhibit A (hereinafter referred to as "Premises") the following:

March 1, 2015	\$	■
October 1, 2015	\$	■



Checks are to be made payable to "Grande Cheese Company." The rental rate is [REDACTED] per acre for forty eight (48) acres.

E. Use of Premises. The Premises shall be used for the purpose of operating a farm and growing crops thereon. The premises shall not be used for hunting of any type. No manure application will be allowed on leased premises. Lessor holds the right to determine whether property can be accessed to transport manure to adjoining properties. Property will be managed to a soil phosphorous index of three (3) or less. A minimum two (2) weeks' notice must be provided to Lessor to gain approval of manure transport. Notification should be made to:

- Hal Morgan -- Office: 920-583-1648 or Cell: 920-979-0093

F. Operations on Premises. All operations conducted on Premises by Lessee incident to the use thereof as described in Paragraph E, above, shall be in accordance with the best farming practice in the vicinity of Premises. If Lessee fails to perform any of the obligations of the Lessee, the Lessor shall give the Lessee ten (10) days written notice of failure to perform and the Lessee shall make any necessary correction in farming practice.

G. Payment of Utilities. Lessee shall pay all charges for furnishing of gas, electricity and other public utilities to Premises.

H. Waste of Nuisance. Lessee shall not, commit or permit the commission of any hazardous acts on the Premises; maintain, commit or permit the maintenance or commission of any nuisance on Premises, or permit the use of Premises for any unlawful purpose.

I. Insurance Hazards. Lessee shall not commit or permit the commission of any hazardous acts on the Premises nor use or permit its use in any manner that will increase the existing rates for or cause cancellation of any liability policy insuring the Premises.

J. Maintenance. The Lessee shall keep said premises, including the hedges and fences, in proper and necessary repair. The Lessor reserves the privilege of ploughing the stubble ground when Lessee may have secured the crop grown thereon; and further, that the Lessor, or his legal representative, may enter upon said premises for the purpose of viewing, making repairs or showing premises to prospective purchasers. No timber, gravel, marl, minerals or oil shall be removed from the above described premises without the written consent of the Lessor. Lessee agrees to conform to the state law regarding noxious weeds, and to all laws of the state and United States affecting the use of the property.

K. Alterations and Liens. Lessee shall not, without Lessor's prior written consent, make, or permit any other person to make, any alterations to the Premises, or to any improvement thereof or facility appurtenant thereto. Lessee shall keep the Premises

free and clear from all liens, claims, and demands for work performed, materials furnished, or operations conducted thereon by Lessee or at their request. The Lessee shall not make any alteration or improvement to Premises which exceeds [REDACTED] unless the parties hereto agree in writing that such improvements shall be made. The improvements, if any, become property of the Lessor at the expiration and/or termination of the lease.

L. Inspection by Lessor. Lessee shall permit Lessor or their agents, representatives, or employees to enter the Premises at all reasonable times in order to inspect the Premises to determine whether Lessee is complying with the terms of this Lease, and to do all other lawful acts that are necessary to protect Lessor's interest in the Premises.

M. Acceptance by Lessee. Lessee accepts the Premises, as well as the improvements thereon and the facilities appurtenant thereto, in their present condition. Lessee warrants and represents to Lessor that Lessee has inspected the Premises, that Lessee has been assured by means independent of Lessor or Lessor's agents of the truth of all facts material to this Lease, and that Lessee is leasing the Premises as a result of their inspection and investigation and not of any representations made by Lessor or their agents.

N. Hold Harmless. Lessee shall indemnify and hold Lessor and their property, including the Premises, free and harmless from all claims, liability, loss, damage, or expense resulting from Lessee's occupation and use of the Premises, including, without limitations, any claim, liability, loss or damage arising by reason of:

1. Any injury to person or property, from whatever cause, while in or on the Premises or in any way connected with this Premises or with the improvements or personal property therein or thereon, including any liability for injury to the person or personal property of Lessee or of their agents, officers, or employees.
2. Any work performed on the Premises or materials furnished to the Premises by or at the request of Lessee or their agents or employees.
3. Any failure by Lessee to perform any provision of this Lease or to comply with any requirement imposed on them or on the Premises by any duly authorized governmental agency or political subdivision.
4. Any failure or inability by Lessee to pay as they become due any obligation incurred by them in conducting their agricultural or other operations on the Premises.

O. Subleasing and Assigning. Lessee shall not, without Lessor's prior written consent: encumber, assign, or otherwise transfer this Lease, or any right or interest herein in the Premises, or any existing or future improvement constructed or installed thereon; or sublet all or part of the Premises or allow any persons other than Lessee's agents,

family, and servants to occupy or use all of any part thereof. A consent by Lessor to one assignment, subletting, occupation, or use by another person shall not be deemed a consent to any other assignment, subletting, occupation or use. Any encumbrance, assignment, transfer, or subletting, whether voluntary or involuntary (by operation of law or otherwise), without Lessor's prior written consent, shall be void and shall entitle Lessor to terminate this Lease. Lessor shall not unreasonably withhold their consent to any such assignment of Lessee's interest in this Lease or Lessee's subletting of the Premises.

P. Abandonment by Lessee. If Lessee breaches this Lease and abandons the Premises before the end of the Lease Term, Lessor may:

1. Continue this Lease in effect by not terminating Lessee's right to possession of the Premises. In that event, Lessor may enforce all their rights and remedies under this Lease, including the right to recover the specified rent as it becomes due.
2. Terminate this Lease and recover from the Lessee:
  - a) The worth at the time of award of the unpaid rent which had been earned at the time of termination of the Lease.
  - b) The worth at the time of award of the amount by which the unpaid rent which would have been earned after termination of the Lease until the time of award exceeds the amount of rental loss that Lessee proves could have been reasonably avoided.
  - c) The worth at the time of award of the amount by which the unpaid rent for the balance of the term after the time of award exceeds the amount of rental loss that Lessee proves could be reasonably avoided.
  - d) Any other amount necessary to compensate Lessor for all detriment proximately caused by Lessee's failure to perform their obligations under this Lease.

Q. Default by Lessee. If Lessee shall default in performing any term, provision, covenant, or condition required herein by Lessee to be kept, observed or performed, Lessor may terminate this Lease and re-enter and regain possession of the Premises in the manner then provided by the State of Wisconsin's laws of unlawful detainer. This default provision may only be exercised in the event Lessor grants Lessee ten (10) day notice for purposes of curing any default as to non-payment of rent under this Lease Agreement or thirty (30) days notice to cure any other default under this Lease Agreement before the Lease may be terminated as herein provided. To the extent permitted by law, Lessor may collect attorneys fees and other expenses incurred with enforcement of this lease.

R. Insolvency of Lessee. If Lessee shall become insolvent, this Lease shall terminate and Lessor may re-enter and regain possession of the Premises. Lessee shall be deemed insolvent if a receiver is appointed to take possession of all or substantially all of their property, Lessee makes a general assignment for the benefit of creditors, or Lessee is adjudicated as a bankrupt under the Federal Bankruptcy Act.

S. Binding Effect: Non-Assignment. This Lease shall be binding upon and inure to the benefit of both parties and their respective heirs, executors, administrators, successors and assigns. However, nothing herein shall be construed as Lessor's consent to any assignment of this Lease or any interest herein by Lessee except as provided in Paragraph P.

T. Time of Essence. Time is of the essence of this Lease.

U. Non-Waiver. Lessor's waiver of any breach of any provision of this Lease shall not constitute a continuing waiver or a waiver of any subsequent breach by Lessee of either the same or any other provision hereof.

V. Headings. Headings in this Lease are for convenience only and shall not be used to interpret or construe its provisions.

W. Governing Law. This Lease shall be construed in accordance with and governed by the laws of the State of Wisconsin.

X. Entire Agreement. This Lease constitutes the sole Agreement between the parties with regard to the subject matter hereof and supersedes all prior understandings or agreements between the parties relative thereto.

**Elsinger Farms LLC (Lessee)**

**Grande Cheese Company (Lessor)**

\_\_\_\_\_  
**Jeffery Elsinger**

\_\_\_\_\_  
**Greg Siegenthaler**

**Date:**  
\_\_\_\_\_

**Date:**  
\_\_\_\_\_

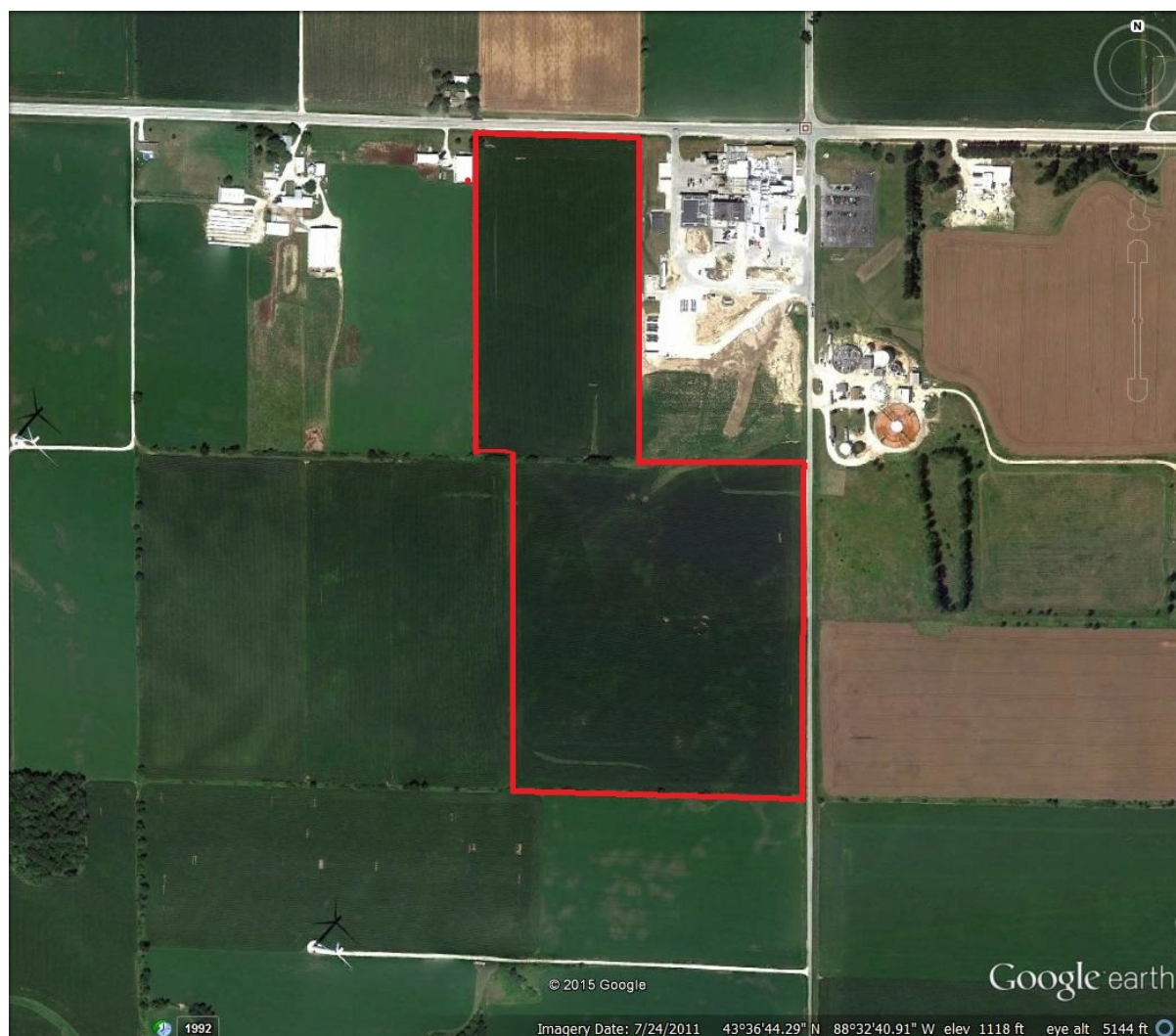
## EXHIBIT A

To the Farm Lease between Lessor and Lessee concerning the premises located in Dodge County, State of Wisconsin more particularly described as follows:

Thirty-five (35) acres principally in the Southeast Quarter (SE  $\frac{1}{4}$ ) of the Northeast Quarter (NE  $\frac{1}{4}$ ) of Section Eleven (11), Township Thirteen (13) North, Range Sixteen (16) East, Town of LeRoy, Dodge County, Wisconsin.

Thirteen (13) acres principally in the Northeast Quarter (NE  $\frac{1}{4}$ ) of Northeast Quarter (NE  $\frac{1}{4}$ ) of Section Eleven (11), excluding commencing NE corner, thence West 231 ft., thence South 188.57', thence East 231 ft., thence North 188.57 ft. to P.O.B., also excluding that part of said  $\frac{1}{4}$  of  $\frac{1}{4}$  as described V368-P488 and V395-P74.

The map below hereto is only an approximation of the size and location of said parcel.





## LAND LEASE AGREEMENT

### I. PARTIES:

A. GRANDE CHEESE COMPANY, an Illinois corporation, 250 Camelot Dr, Fond du Lac, Wisconsin 54935, hereinafter referred to as "Lessor."

B. ELSINGER FARMS, LLC, N10201 Arthur Road, Lomira, WI 53048, hereinafter referred to as "Lessee."

### II. RECITALS:

A. The Lessor owns the following real property described in Exhibit A hereinafter and desires to lease the same to the Lessee pursuant to the terms and conditions of this Lease Agreement.

B. That the parties desire their understanding be reduced to writing.

C. This lease supersedes the previous lease of the parties, if any.

### III. AGREEMENT:

NOW, THEREFORE, in consideration of the mutual covenants herein contained and other good and sufficient consideration,

IT IS AGREED, as follows:

A. Recitals. The Recitals to this Agreement are incorporated herein by reference.

B. Lease. The Lessor does hereby lease to the Lessee and the Lessee does hereby rent from the Lessor the Premises described in Exhibit A attached hereto subject to the terms and conditions of this Lease Agreement.

C. Term of Lease. The term of this Lease Agreement shall be for a period of five (5) year, commencing, March 1, 2018 and ending February 28, 2023. The Lessor has the option to terminate the contract with a 30 day notice. Fall fertilizer costs would be reimbursed if 30 day notice was sent between October 1 and April 1 of the respective year. The Lessor and Lessee will negotiate in good faith for a payment of any crop revenue lost with termination.

D. Rent. The Lessee shall pay to the Lessor as rent for the use and possession of the Premises described in Exhibit A (hereinafter referred to as "Premises") the following:

March 1, 2018	\$	██████████
October 1, 2018	\$	██████████
March 1, 2019	\$	██████████
October 1, 2019	\$	██████████
March 1, 2020	\$	██████████
October 1, 2020	\$	██████████
March 1, 2021	\$	██████████
October 1, 2021	\$	██████████
March 1, 2022	\$	██████████
October 1, 2022	\$	██████████

Checks are to be made payable to "Grande Cheese Company." The rental rate is ██████████ per acre for ninety (90) acres.

E. Use of Premises. The Premises shall be used for the purpose of operating a farm and growing crops thereon. The premises shall be seeded down with alfalfa/cover crop over the term of the lease. The premises shall not be used for hunting of any type. No manure application will be allowed on leased premises. Lessor holds the right to determine whether property can be accessed to transport manure to adjoining properties. Property will be managed with the expectation that the Lessee will make continuous improvements to the soil phosphorous index level, decreasing the phosphorus index level over the baseline phosphorous index level. The Lessee will agree to share all soil sample results associated with property with the Lessor. A minimum two (2) weeks' notice must be provided to Lessor to gain approval of manure transport. Notification should be made to:

- Hal Morgan – Office: 920-583-1648 or Cell: 920-979-0093

Should the event of "winter kill" occur, the Lessor and Lessee will negotiate in good faith for the determination of alternative crop.

F. Operations on Premises. All operations conducted on Premises by Lessee incident to the use thereof as described in Paragraph E, above, shall be in accordance with the best farming practice in the vicinity of Premises. If Lessee fails to perform any of the obligations of the Lessee, the Lessor shall give the Lessee ten (10) days written notice of failure to perform and the Lessee shall make any necessary correction in farming practice. Lessee is required to provide minimum 24 hours oral notice before starting

any tilling or harvesting activity. Notice should be directed to Dan Baker – Cell: 920-948-1813.

G. Payment of Utilities. Lessee shall pay all charges for furnishing of gas, electricity and other public utilities to Premises.

H. Waste of Nuisance. Lessee shall not, commit or permit the commission of any hazardous acts on the Premises; maintain, commit or permit the maintenance or commission of any nuisance on Premises, or permit the use of Premises for any unlawful purpose.

I. Insurance Hazards. Lessee shall not commit or permit the commission of any hazardous acts on the Premises nor use or permit its use in any manner that will increase the existing rates for or cause cancellation of any liability policy insuring the Premises.

J. Maintenance. The Lessee shall keep said premises, including the hedges and fences, in proper and necessary repair. The Lessor reserves the privilege of ploughing the stubble ground when Lessee may have secured the crop grown thereon; and further, that the Lessor, or his legal representative, may enter upon said premises for the purpose of viewing, making repairs or showing premises to prospective purchasers. No timber, gravel, marl, minerals or oil shall be removed from the above described premises without the written consent of the Lessor. Lessee agrees to conform to the state law regarding noxious weeds, and to all laws of the state and United States affecting the use of the property.

K. Alterations and Liens. Lessee shall not, without Lessor's prior written consent, make, or permit any other person to make, any alterations to the Premises, or to any improvement thereof or facility appurtenant thereto. Lessee shall keep the Premises free and clear from all liens, claims, and demands for work performed, materials furnished, or operations conducted thereon by Lessee or at their request. The Lessee shall not make any alteration or improvement to Premises which exceeds [REDACTED] [REDACTED] unless the parties hereto agree in writing that such improvements shall be made. The improvements, if any, shall become property of the Lessor at the expiration and/or termination of the lease.

L. Inspection by Lessor. Lessee shall permit Lessor or their agents, representatives, or employees to enter the Premises at all reasonable times in order to inspect the Premises to determine whether Lessee is complying with the terms of this Lease, and to do all other lawful acts that are necessary to protect Lessor's interest in the Premises.

M. Acceptance by Lessee. Lessee accepts the Premises, as well as the improvements thereon and the facilities appurtenant thereto, in their present condition. Lessee warrants and represents to Lessor that Lessee has inspected the Premises, that Lessee has been assured by means independent of Lessor or Lessor's agents of the truth of all

facts material to this Lease, and that Lessee is leasing the Premises as a result of their inspection and investigation and not of any representations made by Lessor or their agents.

N. Hold Harmless. Lessee shall indemnify and hold Lessor and their property, including the Premises, free and harmless from all claims, liability, loss, damage, or expense resulting from Lessee's occupation and use of the Premises, including, without limitations, any claim, liability, loss or damage arising by reason of:

1. Any injury to person or property, from whatever cause, while in or on the Premises or in any way connected with this Premises or with the improvements or personal property therein or thereon, including any liability for injury to the person or personal property of Lessee or of their agents, officers, or employees.
2. Any work performed on the Premises or materials furnished to the Premises by or at the request of Lessee or their agents or employees.
3. Any failure by Lessee to perform any provision of this Lease or to comply with any requirement imposed on them or on the Premises by any duly authorized governmental agency or political subdivision.
4. Any failure or inability by Lessee to pay as they become due any obligation incurred by them in conducting their agricultural or other operations on the Premises.

O. Subleasing and Assigning. Lessee shall not, without Lessor's prior written consent: encumber, assign, or otherwise transfer this Lease, or any right or interest herein in the Premises, or any existing or future improvement constructed or installed thereon; or sublet all or part of the Premises or allow any persons other than Lessee's agents, family, and servants to occupy or use all of any part thereof. A consent by Lessor to one assignment, subletting, occupation, or use by another person shall not be deemed a consent to any other assignment, subletting, occupation or use. Any encumbrance, assignment, transfer, or subletting, whether voluntary or involuntary (by operation of law or otherwise), without Lessor's prior written consent, shall be void and shall entitle Lessor to terminate this Lease. Lessor shall not unreasonably withhold their consent to any such assignment of Lessee's interest in this Lease or Lessee's subletting of the Premises.

P. Abandonment by Lessee. If Lessee breaches this Lease and abandons the Premises before the end of the Lease Term, Lessor may:

1. Continue this Lease in effect by not terminating Lessee's right to possession of the Premises. In that event, Lessor may enforce all their rights and remedies

under this Lease, including the right to recover the specified rent as it becomes due.

2. Terminate this Lease and recover from the Lessee:

- a) The worth at the time of award of the unpaid rent which had been earned at the time of termination of the Lease.
- b) The worth at the time of award of the amount by which the unpaid rent which would have been earned after termination of the Lease until the time of award exceeds the amount of rental loss that Lessee proves could have been reasonably avoided.
- c) The worth at the time of award of the amount by which the unpaid rent for the balance of the term after the time of award exceeds the amount of rental loss that Lessee proves could be reasonably avoided.
- d) Any other amount necessary to compensate Lessor for all detriment proximately caused by Lessee's failure to perform their obligations under this Lease.

Q. Default by Lessee. If Lessee shall default in performing any term, provision, covenant, or condition required herein by Lessee to be kept, observed or performed, Lessor may terminate this Lease and re-enter and regain possession of the Premises in the manner then provided by the State of Wisconsin's laws of unlawful detainer. This default provision may only be exercised in the event Lessor grants Lessee ten (10) day notice for purposes of curing any default as to non-payment of rent under this Lease Agreement or thirty (30) days notice to cure any other default under this Lease Agreement before the Lease may be terminated as herein provided. To the extent permitted by law, Lessor may collect attorneys fees and other expenses incurred with enforcement of this lease.

R. Insolvency of Lessee. If Lessee shall become insolvent, this Lease shall terminate and Lessor may re-enter and regain possession of the Premises. Lessee shall be deemed insolvent if a receiver is appointed to take possession of all or substantially all of their property, Lessee makes a general assignment for the benefit of creditors, or Lessee is adjudicated as a bankrupt under the Federal Bankruptcy Act.

S. Binding Effect: Non-Assignment. This Lease shall be binding upon and inure to the benefit of both parties and their respective heirs, executors, administrators, successors and assigns. However, nothing herein shall be construed as Lessor's consent to any assignment of this Lease or any interest herein by Lessee except as provided in Paragraph P.



T. Time of Essence. Time is of the essence of this Lease.

U. Non-Waiver. Lessor's waiver of any breach of any provision of this Lease shall not constitute a continuing waiver or a waiver of any subsequent breach by Lessee of either the same or any other provision hereof.

V. Headings. Headings in this Lease are for convenience only and shall not be used to interpret or construe its provisions.

W. Governing Law. This Lease shall be construed in accordance with and governed by the laws of the State of Wisconsin.

X. Entire Agreement. This Lease constitutes the sole Agreement between the parties with regard to the subject matter hereof and supersedes all prior understandings or agreements between the parties relative thereto.

**Elsinger Farms LLC (Lessee)**

**Grande Cheese Company (Lessor)**

\_\_\_\_\_  
**Jeffery Elsinger**

\_\_\_\_\_  
**Greg Siegenthaler**

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## EXHIBIT A

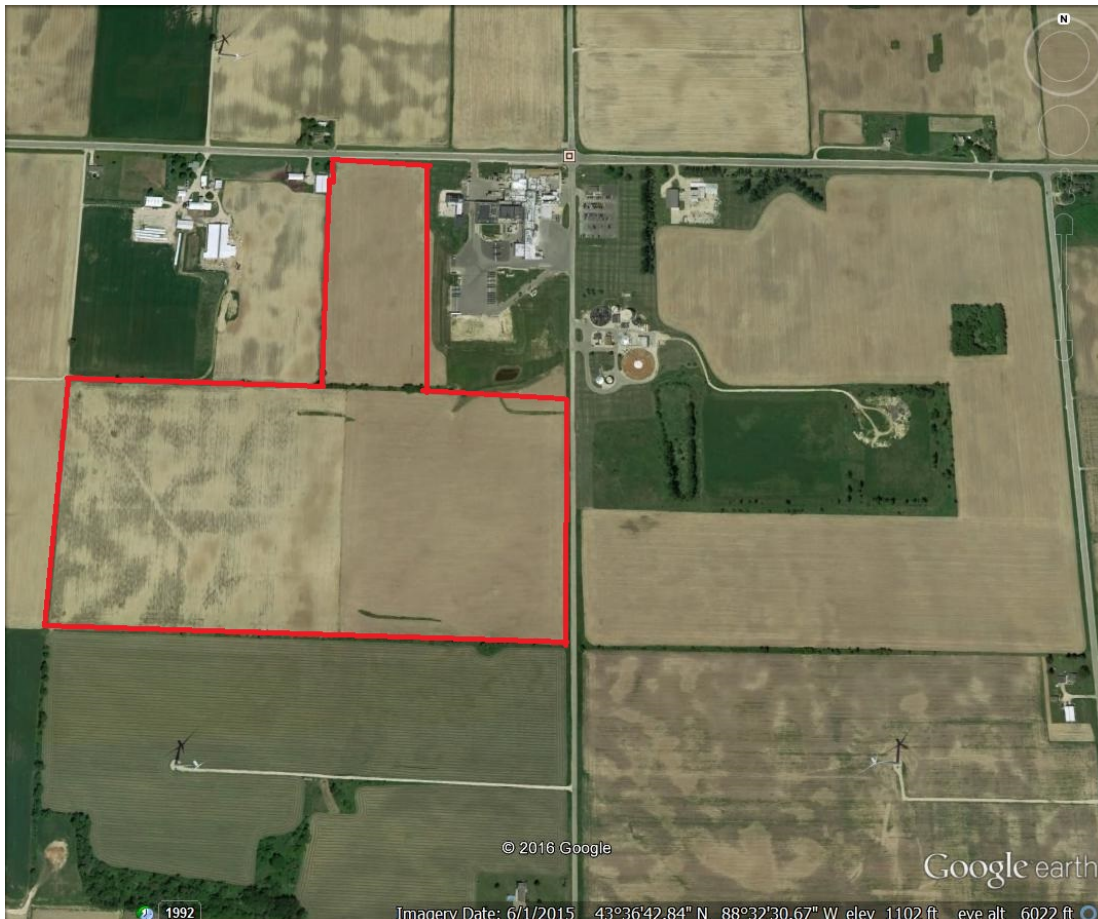
To the Farm Lease between Lessor and Lessee concerning the premises located in Dodge County, State of Wisconsin more particularly described as follows:

Thirty-five (35) acres principally in the Southeast Quarter (SE  $\frac{1}{4}$ ) of the Northeast Quarter (NE  $\frac{1}{4}$ ) of Section Eleven (11), Township Thirteen (13) North, Range Sixteen (16) East, Town of LeRoy, Dodge County, Wisconsin.

Thirteen (13) acres principally in the Northeast Quarter (NE  $\frac{1}{4}$ ) of Northeast Quarter (NE  $\frac{1}{4}$ ) of Section Eleven (11), excluding commencing NE corner, thence West 231 ft., thence South 188.57', thence East 231 ft., thence North 188.57 ft. to P.O.B., also excluding that part of said  $\frac{1}{4}$  of  $\frac{1}{4}$  as described V368-P488 and V395-P74.

Forty-two (42) acres principally in the Southwest Quarter (SW  $\frac{1}{4}$ ) of the Northeast Quarter (NE  $\frac{1}{4}$ ) of Section Eleven (11), Township Thirteen (13) North (T13N), Range Sixteen (16) East (R16E), Town of LeRoy, Dodge County, Wisconsin.

The map below hereto is only an approximation of the size and location of said parcel.



**LAND LEASE AGREEMENT**

I. PARTIES:

- A. GRANDE CHEESE COMPANY, an Illinois corporation, 301 E. Main Street, Lomira, Wisconsin 53048, hereinafter referred to as "Lessor."
  
- B. OECHSNER FARMS LLC, N11172 Hwy YY, Brownsville, WI 53006, hereinafter referred to as "Lessee."

II. RECITALS:

- A. The Lessor owns the following real property described in Exhibit A hereinafter and desires to lease the same to the Lessee pursuant to the terms and conditions of this Lease Agreement.
  
- B. That the parties desire their understanding be reduced to writing.
  
- C. This lease supersedes the previous lease of the parties, if any.

III. AGREEMENT:

NOW, THEREFORE, in consideration of the mutual covenants herein contained and other good and sufficient consideration,

IT IS AGREED, as follows:

- A. Recitals. The Recitals to this Agreement are incorporated herein by reference.
  
- B. Lease. The Lessor does hereby lease to the Lessee and the Lessee does hereby rent from the Lessor the Premises described in Exhibit A attached hereto subject to the terms and conditions of this Lease Agreement.
  
- C. Term of Lease. The term of this Lease Agreement shall be for a period of one (1) year, commencing, March 1, 2015 and ending February 28, 2016.
  
- D. Rent. The Lessee shall pay to the Lessor as rent for the use and possession of the Premises described in Exhibit A (hereinafter referred to as "Premises") the following:

March 1, 2015	\$	██████████
October 1, 2015	\$	██████████

Checks are to be made payable to "Grande Cheese Company." The rental rate [REDACTED] per acre for forty-two (42) acres.

E. Use of Premises. The Premises shall be used for the purpose of operating a farm and growing crops thereon. The premises shall not be used for hunting of any type. No manure application will be allowed on leased premises. Lessor holds the right to determine whether property can be accessed to transport manure to adjoining properties. Property will be managed to a soil phosphorous index of three (3) or less. A minimum two (2) weeks' notice must be provided to Lessor to gain approval of manure transport. Notification should be made to:

- Hal Morgan -- Office: 920-583-1648 or Cell: 920-979-0093

F. Operations on Premises. All operations conducted on Premises by Lessee incident to the use thereof as described in Paragraph E, above, shall be in accordance with the best farming practice in the vicinity of Premises. If Lessee fails to perform any of the obligations of the Lessee, the Lessor shall give the Lessee ten (10) days written notice of failure to perform and the Lessee shall make any necessary correction in farming practice.

G. Payment of Utilities. Lessee shall pay all charges for furnishing of gas, electricity and other public utilities to Premises.

H. Waste of Nuisance. Lessee shall not, commit or permit the commission of any hazardous acts on the Premises; maintain, commit or permit the maintenance or commission of any nuisance on Premises, or permit the use of Premises for any unlawful purpose.

I. Insurance Hazards. Lessee shall not commit or permit the commission of any hazardous acts on the Premises nor use or permit its use in any manner that will increase the existing rates for or cause cancellation of any liability policy insuring the Premises.

J. Maintenance. The Lessee shall keep said premises, including the hedges and fences, in proper and necessary repair. The Lessor reserves the privilege of ploughing the stubble ground when Lessee may have secured the crop grown thereon; and further, that the Lessor, or his legal representative, may enter upon said premises for the purpose of viewing, making repairs or showing premises to prospective purchasers. No timber, gravel, marl, minerals or oil shall be removed from the above described premises without the written consent of the Lessor. Lessee agrees to conform to the state law regarding noxious weeds, and to all laws of the state and United States affecting the use of the property.

K. Alterations and Liens. Lessee shall not, without Lessor's prior written consent, make, or permit any other person to make, any alterations to the Premises, or to any improvement thereof or facility appurtenant thereto. Lessee shall keep the Premises

free and clear from all liens, claims, and demands for work performed, materials furnished, or operations conducted thereon by Lessee or at their request. The Lessee shall not make any alteration or improvement to Premises which exceeds [REDACTED] unless the parties hereto agree in writing that such improvements shall be made. The improvements, if any, shall become property of the Lessor at the expiration and/or termination of the lease.

L. Inspection by Lessor. Lessee shall permit Lessor or their agents, representatives, or employees to enter the Premises at all reasonable times in order to inspect the Premises to determine whether Lessee is complying with the terms of this Lease, and to do all other lawful acts that are necessary to protect Lessor's interest in the Premises.

M. Acceptance by Lessee. Lessee accepts the Premises, as well as the improvements thereon and the facilities appurtenant thereto, in their present condition. Lessee warrants and represents to Lessor that Lessee has inspected the Premises, that Lessee has been assured by means independent of Lessor or Lessor's agents of the truth of all facts material to this Lease, and that Lessee is leasing the Premises as a result of their inspection and investigation and not of any representations made by Lessor or their agents.

N. Hold Harmless. Lessee shall indemnify and hold Lessor and their property, including the Premises, free and harmless from all claims, liability, loss, damage, or expense resulting from Lessee's occupation and use of the Premises, including, without limitations, any claim, liability, loss or damage arising by reason of:

1. Any injury to person or property, from whatever cause, while in or on the Premises or in any way connected with this Premises or with the improvements or personal property therein or thereon, including any liability for injury to the person or personal property of Lessee or of their agents, officers, or employees.
2. Any work performed on the Premises or materials furnished to the Premises by or at the request of Lessee or their agents or employees.
3. Any failure by Lessee to perform any provision of this Lease or to comply with any requirement imposed on them or on the Premises by any duly authorized governmental agency or political subdivision.
4. Any failure or inability by Lessee to pay as they become due any obligation incurred by them in conducting their agricultural or other operations on the Premises.

O. Subleasing and Assigning. Lessee shall not, without Lessor's prior written consent: encumber, assign, or otherwise transfer this Lease, or any right or interest herein in the Premises, or any existing or future improvement constructed or installed thereon; or

sublet all or part of the Premises or allow any persons other than Lessee's agents, family, and servants to occupy or use all of any part thereof. A consent by Lessor to one assignment, subletting, occupation, or use by another person shall not be deemed a consent to any other assignment, subletting, occupation or use. Any encumbrance, assignment, transfer, or subletting, whether voluntary or involuntary (by operation of law or otherwise), without Lessor's prior written consent, shall be void and shall entitle Lessor to terminate this Lease. Lessor shall not unreasonably withhold their consent to any such assignment of Lessee's interest in this Lease or Lessee's subletting of the Premises.

P. Abandonment by Lessee. If Lessee breaches this Lease and abandons the Premises before the end of the Lease Term, Lessor may:

1. Continue this Lease in effect by not terminating Lessee's right to possession of the Premises. In that event, Lessor may enforce all their rights and remedies under this Lease, including the right to recover the specified rent as it becomes due.
2. Terminate this Lease and recover from the Lessee:
  - a) The worth at the time of award of the unpaid rent which had been earned at the time of termination of the Lease.
  - b) The worth at the time of award of the amount by which the unpaid rent which would have been earned after termination of the Lease until the time of award exceeds the amount of rental loss that Lessee proves could have been reasonably avoided.
  - c) The worth at the time of award of the amount by which the unpaid rent for the balance of the term after the time of award exceeds the amount of rental loss that Lessee proves could be reasonably avoided.
  - d) Any other amount necessary to compensate Lessor for all detriment proximately caused by Lessee's failure to perform their obligations under this Lease.

Q. Default by Lessee. If Lessee shall default in performing any term, provision, covenant, or condition required herein by Lessee to be kept, observed or performed, Lessor may terminate this Lease and re-enter and regain possession of the Premises in the manner then provided by the State of Wisconsin's laws of unlawful detainer. This default provision may only be exercised in the event Lessor grants Lessee ten (10) day notice for purposes of curing any default as to non-payment of rent under this Lease Agreement or thirty (30) days notice to cure any other default under this Lease Agreement before the Lease may be terminated as herein provided. To the extent

permitted by law, Lessor may collect attorneys fees and other expenses incurred with enforcement of this lease.

R. Insolvency of Lessee. If Lessee shall become insolvent, this Lease shall terminate and Lessor may re-enter and regain possession of the Premises. Lessee shall be deemed insolvent if a receiver is appointed to take possession of all or substantially all of their property, Lessee makes a general assignment for the benefit of creditors, or Lessee is adjudicated as a bankrupt under the Federal Bankruptcy Act.

S. Binding Effect: Non-Assignment. This Lease shall be binding upon and inure to the benefit of both parties and their respective heirs, executors, administrators, successors and assigns. However, nothing herein shall be construed as Lessor’s consent to any assignment of this Lease or any interest herein by Lessee except as provided in Paragraph P.

T. Time of Essence. Time is of the essence of this Lease.

U. Non-Waiver. Lessor’s waiver of any breach of any provision of this Lease shall not constitute a continuing waiver or a waiver of any subsequent breach by Lessee of either the same or any other provision hereof.

V. Headings. Headings in this Lease are for convenience only and shall not be used to interpret or construe its provisions.

W. Governing Law. This Lease shall be construed in accordance with and governed by the laws of the State of Wisconsin.

X. Entire Agreement. This Lease constitutes the sole Agreement between the parties with regard to the subject matter hereof and supersedes all prior understandings or agreements between the parties relative thereto.

**Oechsner Farms LLC (Lessee)**

**Grande Cheese Company (Lessor)**

\_\_\_\_\_  
**Dennis Oechsner**

\_\_\_\_\_  
**Greg Siegenthaler**

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

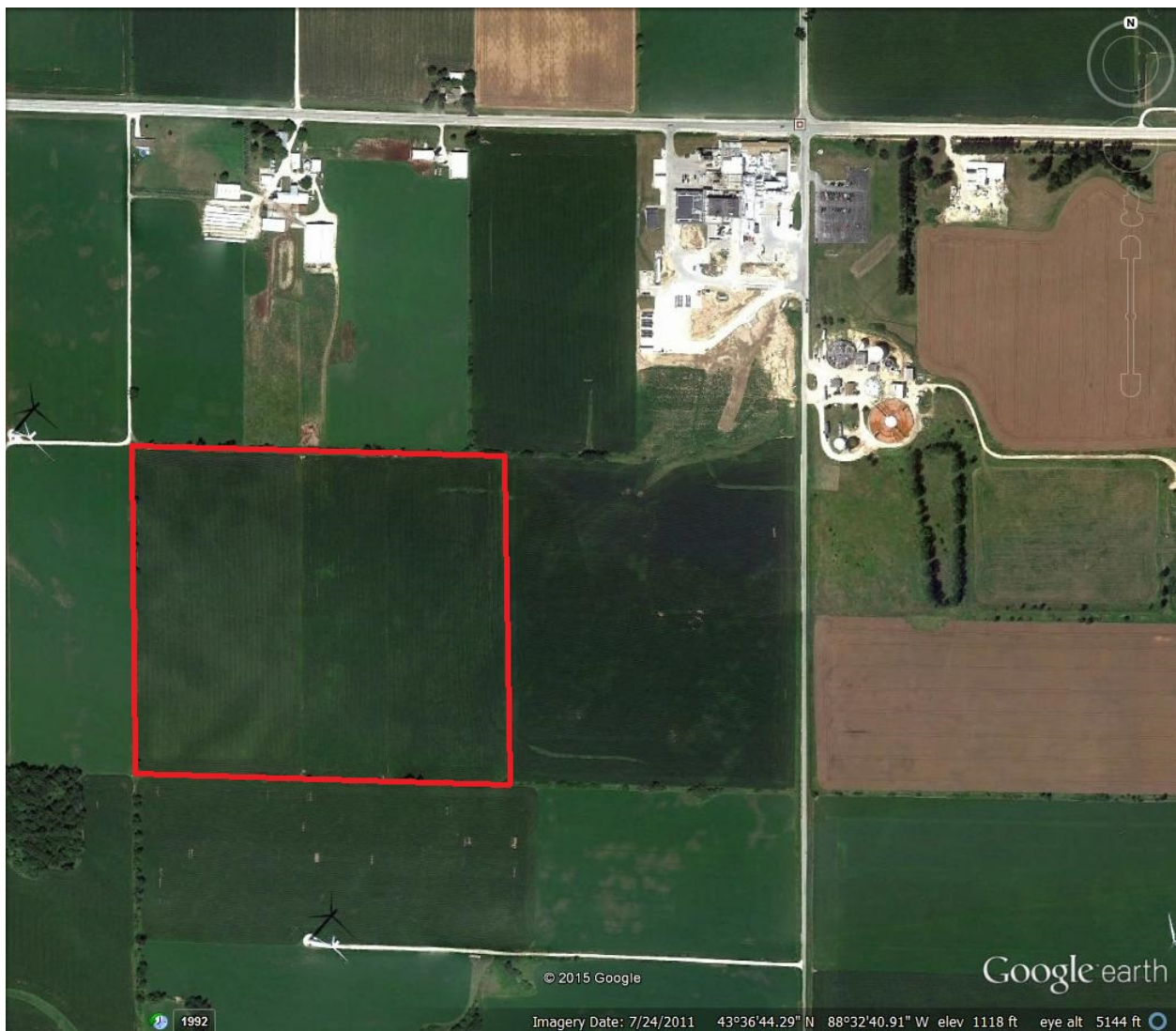


## EXHIBIT A

To the Farm Lease between Lessor and lessee concerning the premises located in Dodge County, State of Wisconsin more particularly described as follows:

Forty-two (42) acres principally in the Southwest Quarter (SW  $\frac{1}{4}$ ) of the Northeast Quarter (NE  $\frac{1}{4}$ ) of Section Eleven (11), Township Thirteen (13) North (T13N), Range Sixteen (16) East (R16E), Town of LeRoy, Dodge County, Wisconsin.

The map below hereto is only an approximation of the size and location of said parcel.



## LAND LEASE AGREEMENT

### I. PARTIES:

A. GRANDE CHEESE COMPANY, an Illinois corporation, 250 Camelot Dr, Fond du Lac, Wisconsin 54935, hereinafter referred to as "Lessor."

B. OECHSNER FARMS LLC, N11172 Hwy YY, Brownsville, WI 53006, hereinafter referred to as "Lessee."

### II. RECITALS:

A. The Lessor owns the following real property described in Exhibit A hereinafter and desires to lease the same to the Lessee pursuant to the terms and conditions of this Lease Agreement.

B. That the parties desire their understanding be reduced to writing.

C. This lease supersedes the previous lease of the parties, if any.

### III. AGREEMENT:

NOW, THEREFORE, in consideration of the mutual covenants herein contained and other good and sufficient consideration,

IT IS AGREED, as follows:

A. Recitals. The Recitals to this Agreement are incorporated herein by reference.

B. Lease. The Lessor does hereby lease to the Lessee and the Lessee does hereby rent from the Lessor the Premises described in Exhibit A attached hereto subject to the terms and conditions of this Lease Agreement.

C. Term of Lease. The term of this Lease Agreement shall be for a period of five (5) year, commencing, March 1, 2018 and ending February 28, 2023. The Lessor has the option to terminate the contract with a 30 day notice. The Lessor and Lessee will negotiate in good faith for a payment of any crop revenue lost with termination.

D. Rent. The Lessee shall pay to the Lessor as rent for the use and possession of the Premises described in Exhibit A (hereinafter referred to as "Premises") the following:

March 1, 2018	\$	██████████
October 1, 2018	\$	██████████
March 1, 2019	\$	██████████
October 1, 2019	\$	██████████
March 1, 2020	\$	██████████
October 1, 2020	\$	██████████
March 1, 2021	\$	██████████
October 1, 2021	\$	██████████
March 1, 2022	\$	██████████
October 1, 2022	\$	██████████

Checks are to be made payable to "Grande Cheese Company." The rental rate is ██████████ per acre for ninety-nine (99) acres.

E. Use of Premises. The Premises shall be used for the purpose of operating a farm and growing crops thereon. The premises shall be seeded down with alfalfa/cover crop over the term of the lease. The premises shall not be used for hunting of any type. No manure application will be allowed on leased premises. Lessor holds the right to determine whether property can be accessed to transport manure to adjoining properties. Property will be managed to a soil phosphorous index of three (3) or less. The Lessee will agree to share all soil sample results associated with property with the Lessor. A minimum two (2) weeks' notice must be provided to Lessor to gain approval of manure transport. Notification should be made to:

- Hal Morgan -- Office: 920-583-1648 or Cell: 920-979-0093

F. Operations on Premises. All operations conducted on Premises by Lessee incident to the use thereof as described in Paragraph E, above, shall be in accordance with the best farming practice in the vicinity of Premises. If Lessee fails to perform any of the obligations of the Lessee, the Lessor shall give the Lessee ten (10) days written notice of failure to perform and the Lessee shall make any necessary correction in farming practice. Lessee is required to provide minimum 24 hours oral notice before starting any tilling or harvesting activity. Notice should be directed to Dan Baker – Cell: 920-948-1813.

G. Payment of Utilities. Lessee shall pay all charges for furnishing of gas, electricity and other public utilities to Premises.

H. Waste of Nuisance. Lessee shall not, commit or permit the commission of any hazardous acts on the Premises; maintain, commit or permit the maintenance or commission of any nuisance on Premises, or permit the use of Premises for any unlawful purpose.

I. Insurance Hazards. Lessee shall not commit or permit the commission of any hazardous acts on the Premises nor use or permit its use in any manner that will increase the existing rates for or cause cancellation of any liability policy insuring the Premises.

J. Maintenance. The Lessee shall keep said premises, including the hedges and fences, in proper and necessary repair. The Lessor reserves the privilege of ploughing the stubble ground when Lessee may have secured the crop grown thereon; and further, that the Lessor, or his legal representative, may enter upon said premises for the purpose of viewing, making repairs or showing premises to prospective purchasers. No timber, gravel, marl, minerals or oil shall be removed from the above described premises without the written consent of the Lessor. Lessee agrees to conform to the state law regarding noxious weeds, and to all laws of the state and United States affecting the use of the property.

K. Alterations and Liens. Lessee shall not, without Lessor's prior written consent, make, or permit any other person to make, any alterations to the Premises, or to any improvement thereof or facility appurtenant thereto. Lessee shall keep the Premises free and clear from all liens, claims, and demands for work performed, materials furnished, or operations conducted thereon by Lessee or at their request. The Lessee shall not make any alteration or improvement to Premises which exceeds [REDACTED] [REDACTED] unless the parties hereto agree in writing that such improvements shall be made. The improvements, if any, shall become property of the Lessor at the expiration and/or termination of the lease.

L. Inspection by Lessor. Lessee shall permit Lessor or their agents, representatives, or employees to enter the Premises at all reasonable times in order to inspect the Premises to determine whether Lessee is complying with the terms of this Lease, and to do all other lawful acts that are necessary to protect Lessor's interest in the Premises.

M. Acceptance by Lessee. Lessee accepts the Premises, as well as the improvements thereon and the facilities appurtenant thereto, in their present condition. Lessee warrants and represents to Lessor that Lessee has inspected the Premises, that Lessee has been assured by means independent of Lessor or Lessor's agents of the truth of all facts material to this Lease, and that Lessee is leasing the Premises as a result of their inspection and investigation and not of any representations made by Lessor or their agents.

N. Hold Harmless. Lessee shall indemnify and hold Lessor and their property, including the Premises, free and harmless from all claims, liability, loss, damage, or expense

resulting from Lessee's occupation and use of the Premises, including, without limitations, any claim, liability, loss or damage arising by reason of:

1. Any injury to person or property, from whatever cause, while in or on the Premises or in any way connected with this Premises or with the improvements or personal property therein or thereon, including any liability for injury to the person or personal property of Lessee or of their agents, officers, or employees.
2. Any work performed on the Premises or materials furnished to the Premises by or at the request of Lessee or their agents or employees.
3. Any failure by Lessee to perform any provision of this Lease or to comply with any requirement imposed on them or on the Premises by any duly authorized governmental agency or political subdivision.
4. Any failure or inability by Lessee to pay as they become due any obligation incurred by them in conducting their agricultural or other operations on the Premises.

O. Subleasing and Assigning. Lessee shall not, without Lessor's prior written consent: encumber, assign, or otherwise transfer this Lease, or any right or interest herein in the Premises, or any existing or future improvement constructed or installed thereon; or sublet all or part of the Premises or allow any persons other than Lessee's agents, family, and servants to occupy or use all of any part thereof. A consent by Lessor to one assignment, subletting, occupation, or use by another person shall not be deemed a consent to any other assignment, subletting, occupation or use. Any encumbrance, assignment, transfer, or subletting, whether voluntary or involuntary (by operation of law or otherwise), without Lessor's prior written consent, shall be void and shall entitle Lessor to terminate this Lease. Lessor shall not unreasonably withhold their consent to any such assignment of Lessee's interest in this Lease or Lessee's subletting of the Premises.

P. Abandonment by Lessee. If Lessee breaches this Lease and abandons the Premises before the end of the Lease Term, Lessor may:

1. Continue this Lease in effect by not terminating Lessee's right to possession of the Premises. In that event, Lessor may enforce all their rights and remedies under this Lease, including the right to recover the specified rent as it becomes due.
2. Terminate this Lease and recover from the Lessee:
  - a) The worth at the time of award of the unpaid rent which had been earned at the time of termination of the Lease.

- b) The worth at the time of award of the amount by which the unpaid rent which would have been earned after termination of the Lease until the time of award exceeds the amount of rental loss that Lessee proves could have been reasonably avoided.
- c) The worth at the time of award of the amount by which the unpaid rent for the balance of the term after the time of award exceeds the amount of rental loss that Lessee proves could be reasonably avoided.
- d) Any other amount necessary to compensate Lessor for all detriment proximately caused by Lessee's failure to perform their obligations under this Lease.

Q. Default by Lessee. If Lessee shall default in performing any term, provision, covenant, or condition required herein by Lessee to be kept, observed or performed, Lessor may terminate this Lease and re-enter and regain possession of the Premises in the manner then provided by the State of Wisconsin's laws of unlawful detainer. This default provision may only be exercised in the event Lessor grants Lessee ten (10) day notice for purposes of curing any default as to non-payment of rent under this Lease Agreement or thirty (30) days notice to cure any other default under this Lease Agreement before the Lease may be terminated as herein provided. To the extent permitted by law, Lessor may collect attorneys fees and other expenses incurred with enforcement of this lease.

R. Insolvency of Lessee. If Lessee shall become insolvent, this Lease shall terminate and Lessor may re-enter and regain possession of the Premises. Lessee shall be deemed insolvent if a receiver is appointed to take possession of all or substantially all of their property, Lessee makes a general assignment for the benefit of creditors, or Lessee is adjudicated as a bankrupt under the Federal Bankruptcy Act.

S. Binding Effect: Non-Assignment. This Lease shall be binding upon and inure to the benefit of both parties and their respective heirs, executors, administrators, successors and assigns. However, nothing herein shall be construed as Lessor's consent to any assignment of this Lease or any interest herein by Lessee except as provided in Paragraph P.

T. Time of Essence. Time is of the essence of this Lease.

U. Non-Waiver. Lessor's waiver of any breach of any provision of this Lease shall not constitute a continuing waiver or a waiver of any subsequent breach by Lessee of either the same or any other provision hereof.

V. Headings. Headings in this Lease are for convenience only and shall not be used to interpret or construe its provisions.

W. Governing Law. This Lease shall be construed in accordance with and governed by the laws of the State of Wisconsin.

X. Entire Agreement. This Lease constitutes the sole Agreement between the parties with regard to the subject matter hereof and supersedes all prior understandings or agreements between the parties relative thereto.

**Oechsner Farms LLC (Lessee)**

**Grande Cheese Company (Lessor)**

\_\_\_\_\_  
**Dennis Oechsner**

\_\_\_\_\_  
**Greg Siegenthaler**

**Date:** \_\_\_\_\_

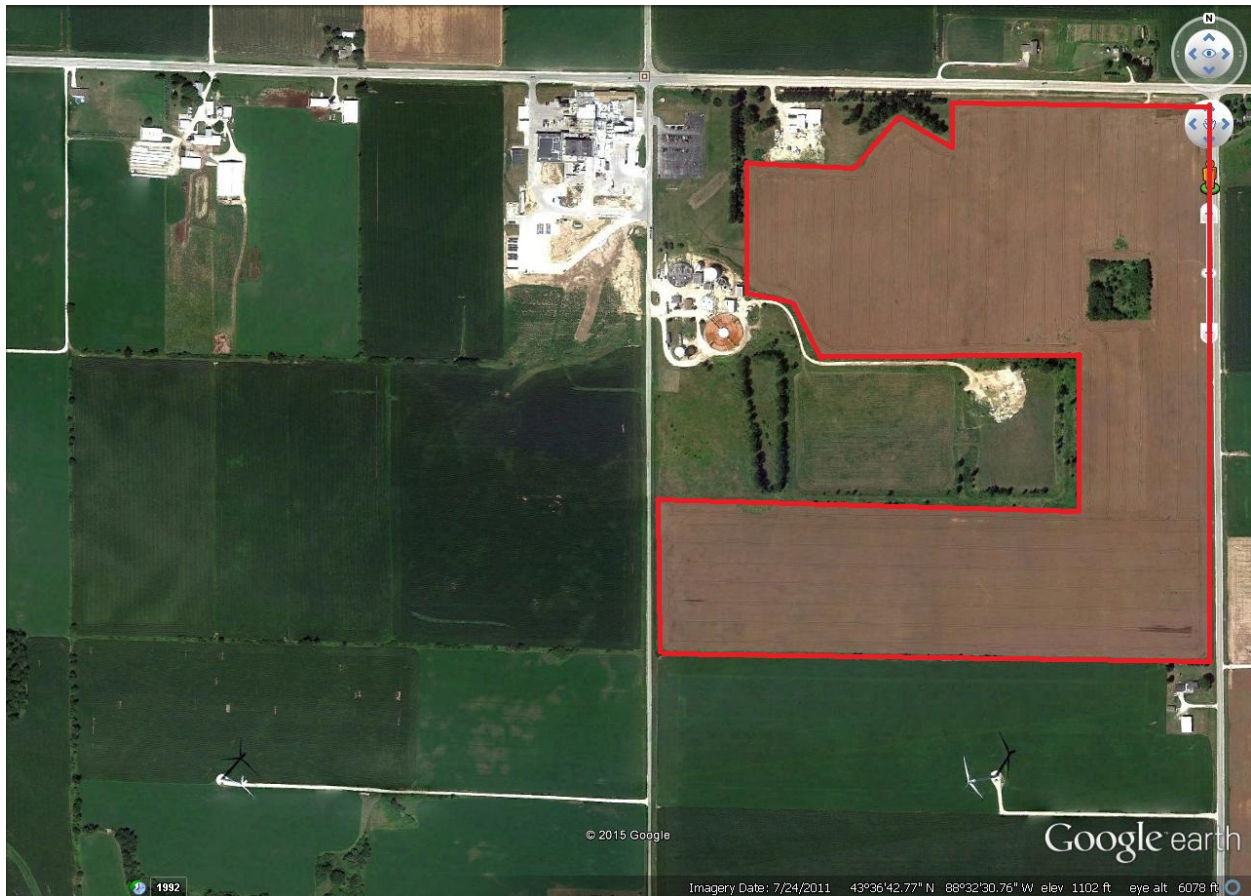
**Date:** \_\_\_\_\_

## EXHIBIT A

To the Farm Lease between Lessor and Lessee, concerning the premises located in Dodge County, State of Wisconsin more particularly described as follows:

Ninety-nine (99) acres principally the Northwest Quarter in Section Twelve (12), Township Thirteen (13) North (T13N), Range Sixteen (16) East (R16E), Town of LeRoy

The map below hereto is only an approximation of the size and location of said parcel.





# ATTACHMENT C

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## Watershed, Subwatershed, and Field Maps

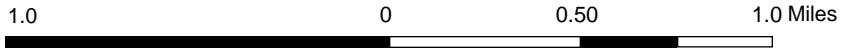




# Grande Cheese WQT Subwatershed Map



- Legend**
- 12-digit HUCs (Subwatersheds)
  - Municipality
  - State Boundaries
  - County Boundaries
  - Major Roads**
    - Interstate Highway
    - State Highway
    - US Highway
  - County and Local Roads**
    - County HWY
    - Local Road
  - + Railroads
  - Tribal Lands
  - Rivers and Streams
  - Intermittent Streams
  - Lakes and Open water



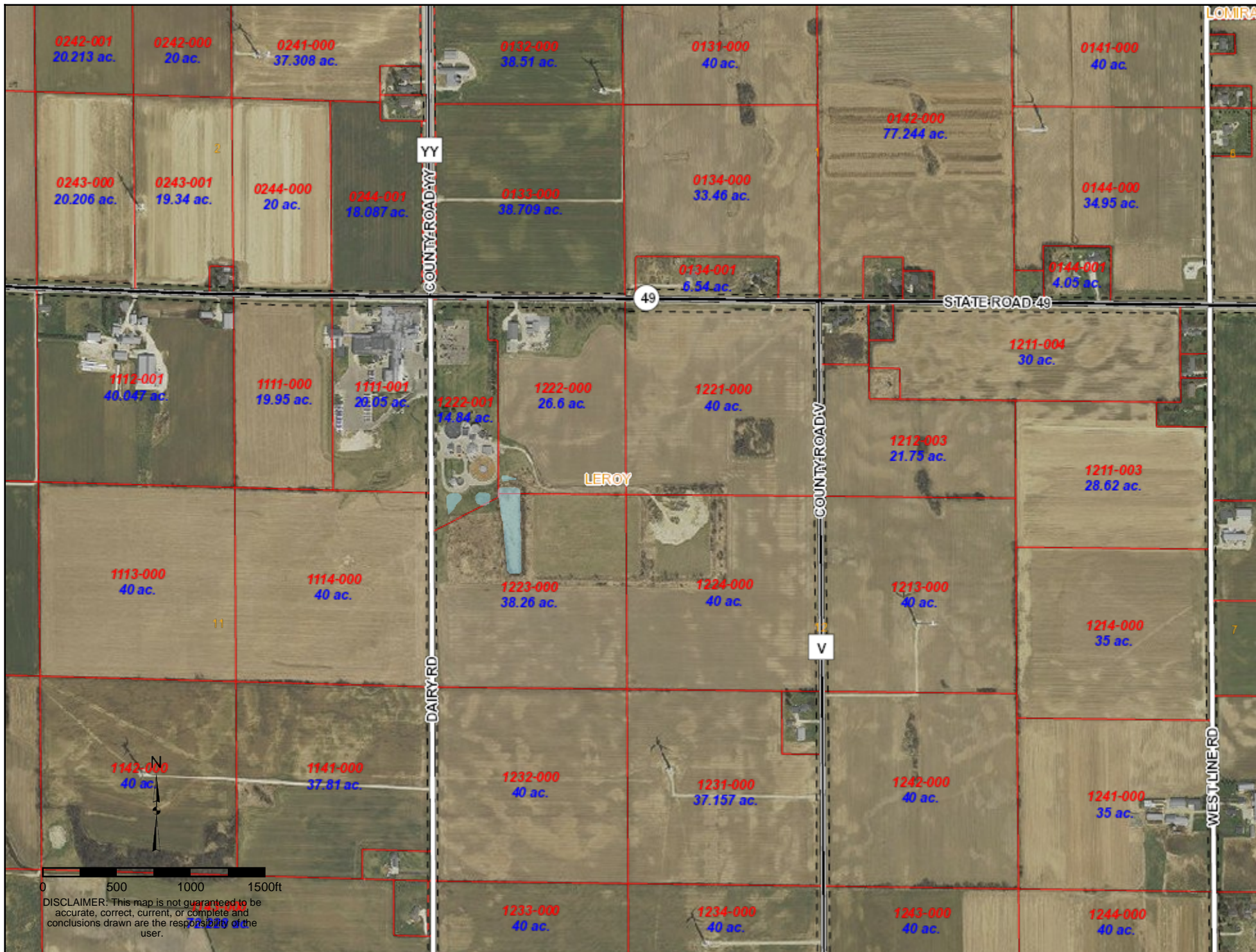
NAD\_1983\_HARN\_Wisconsin\_TM

1: 31,680

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

## Notes

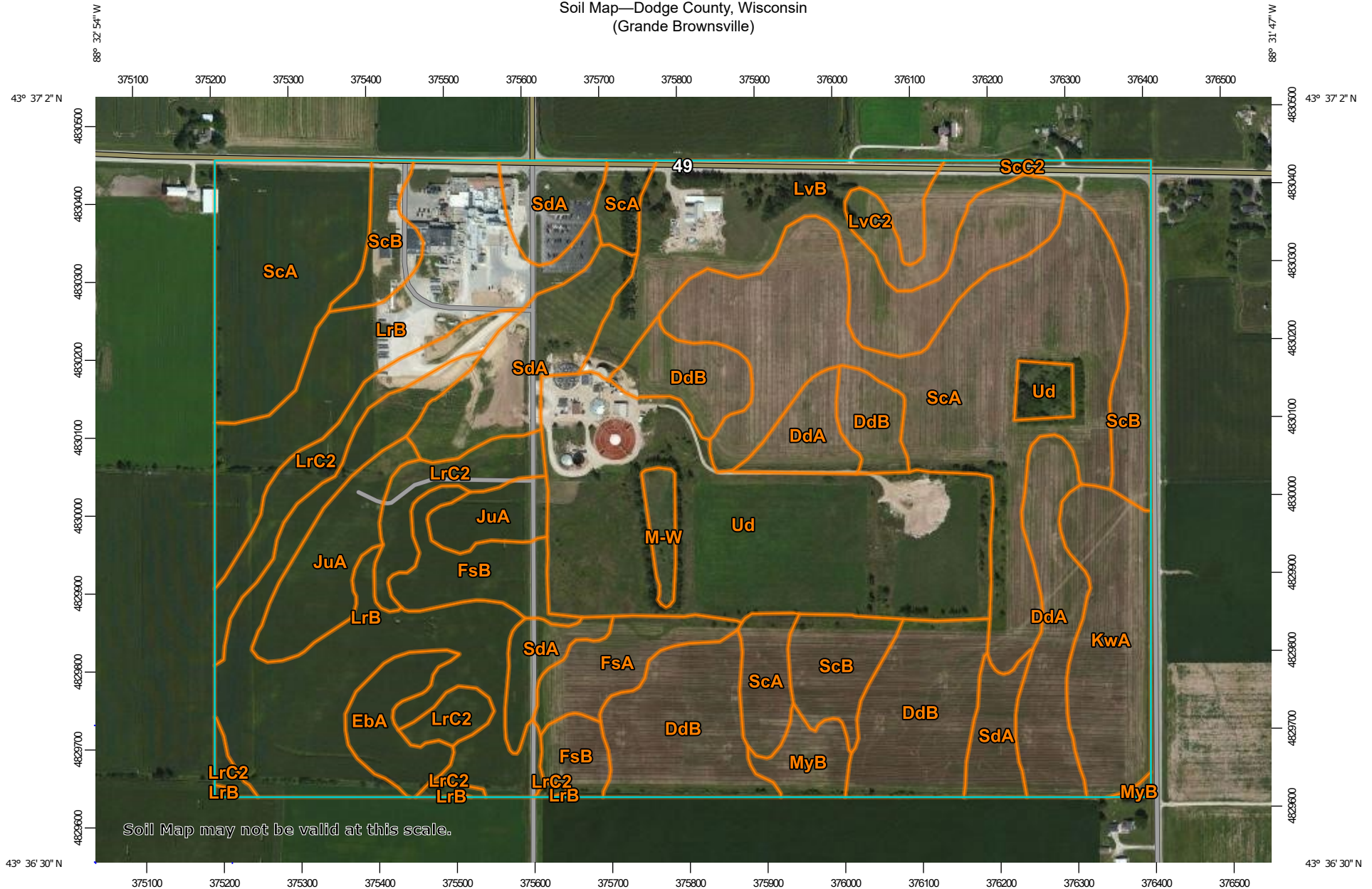




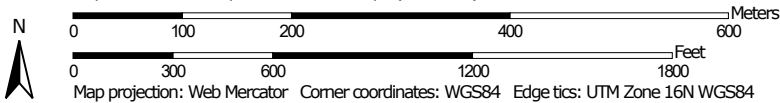
DISCLAIMER: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.



Soil Map—Dodge County, Wisconsin  
(Grande Brownsville)



Map Scale: 1:6,920 if printed on A landscape (11" x 8.5") sheet.



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dodge County, Wisconsin

Survey Area Data: Version 16, Sep 10, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 29, 2011—Sep 6, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

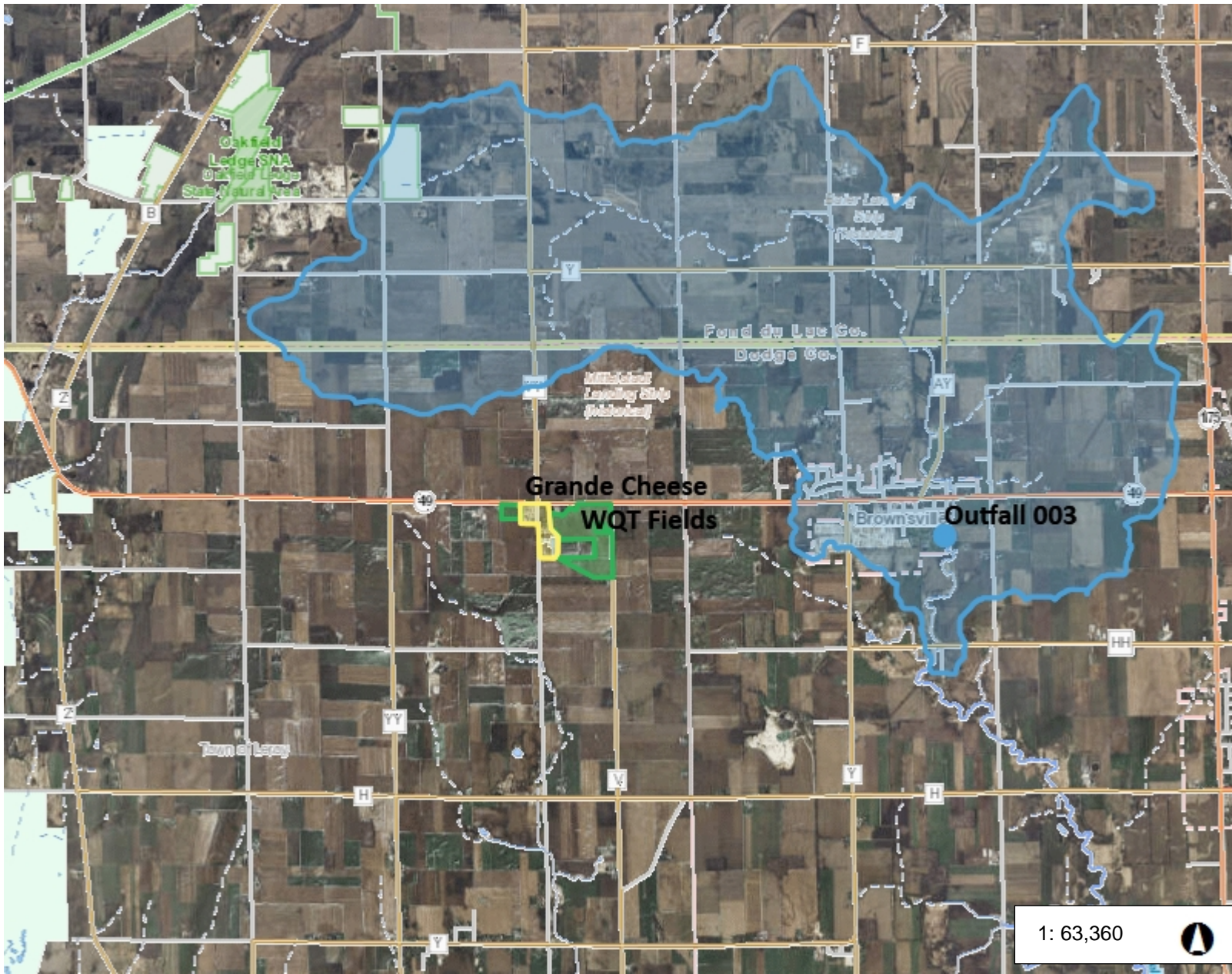
## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DdA	Dodge silt loam, 0 to 2 percent slopes	9.7	4.0%
DdB	Dodge silt loam, 2 to 6 percent slopes	22.1	9.0%
EbA	Elburn silt loam, 0 to 3 percent slopes	3.6	1.5%
FsA	Fox silt loam, 0 to 2 percent slopes	4.1	1.7%
FsB	Fox silt loam, 2 to 6 percent slopes	6.4	2.6%
JuA	Juneau silt loam, 0 to 2 percent slopes	8.2	3.3%
KwA	Knowles silt loam, 0 to 2 percent slopes	9.4	3.8%
LrB	LeRoy silt loam, 2 to 6 percent slopes	35.9	14.7%
LrC2	LeRoy silt loam, 6 to 12 percent slopes, eroded	11.1	4.6%
LvB	Lomira silt loam, 2 to 6 percent slopes	18.7	7.7%
LvC2	Lomira silt loam, 6 to 12 percent slopes, eroded	3.7	1.5%
M-W	Miscellaneous water	1.3	0.5%
MyB	Miami silt loam, 2 to 6 percent slopes	2.5	1.0%
ScA	St. Charles silt loam, 0 to 2 percent slopes	47.1	19.3%
ScB	St. Charles silt loam, 2 to 6 percent slopes	12.6	5.2%
ScC2	St. Charles silt loam, 6 to 12 percent slopes, eroded	0.1	0.1%
SdA	St. Charles silt loam, moderately well drained, 0 to 2 percent slopes	15.9	6.5%
Ud	Udorthents, loamy	31.8	13.0%
<b>Totals for Area of Interest</b>		<b>244.3</b>	<b>100.0%</b>





# Grande Brownsville Upstream Subcatchment



## Legend

## Notes

1: 63,360

2.0 0 1.00 2.0 Miles

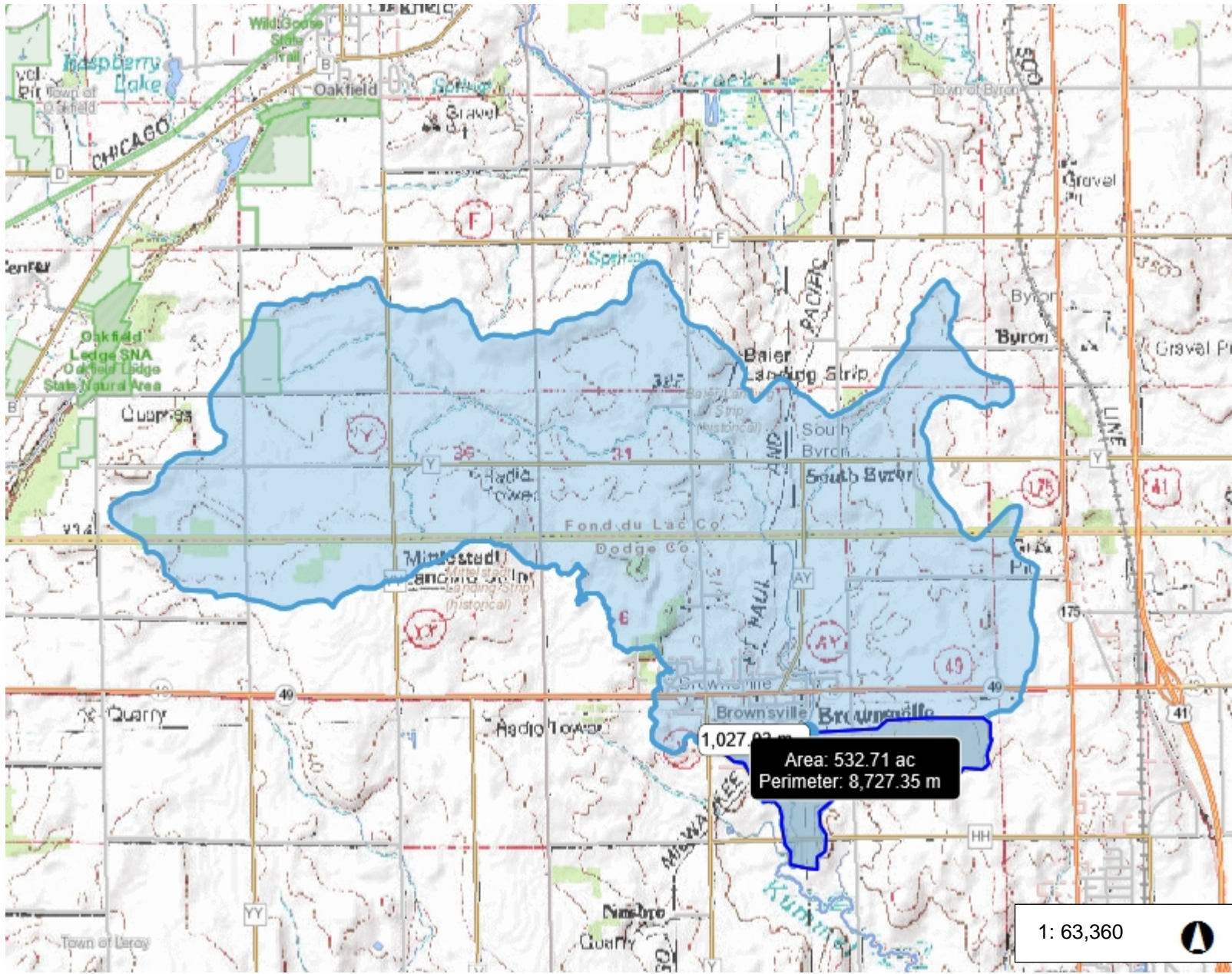
NAD\_1983\_HARN\_Wisconsin\_TM  
© Latitude Geographics Group Ltd.

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# Upstream vs Downstream Acreage



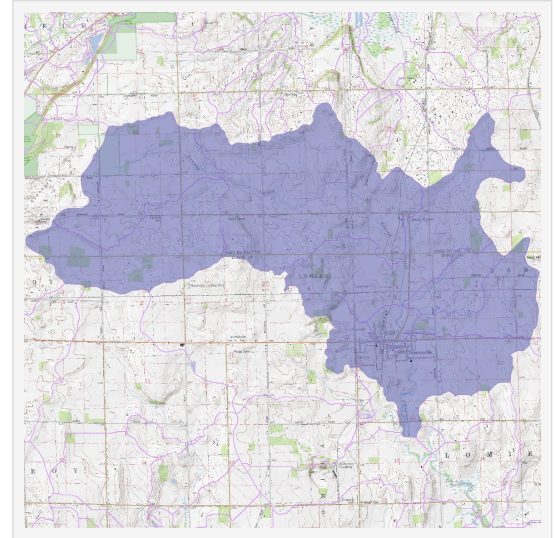
Legend

Notes

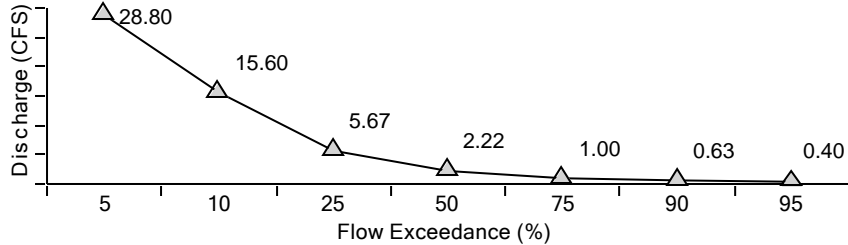


# PRESTO-Lite Watershed Delineation Report

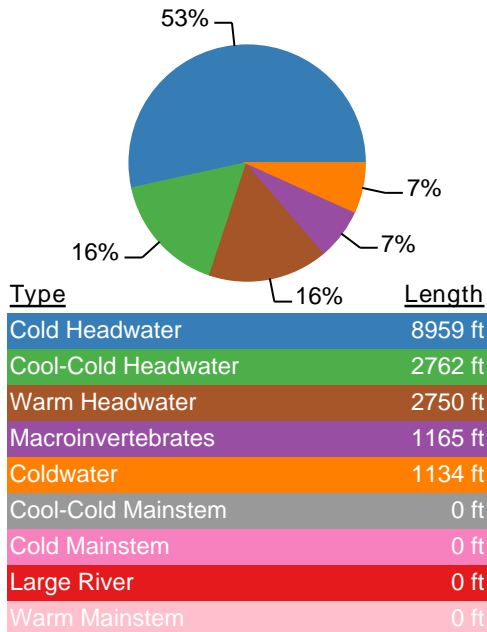
Reach ID: 200050147
Watershed Name: Kummel Creek
Waterbody Name: Kiefer Creek
HUC08: Upper Rock
Watershed Area: 12.59 mi <sup>2</sup>
Average Annual Precipitation: 31.69in



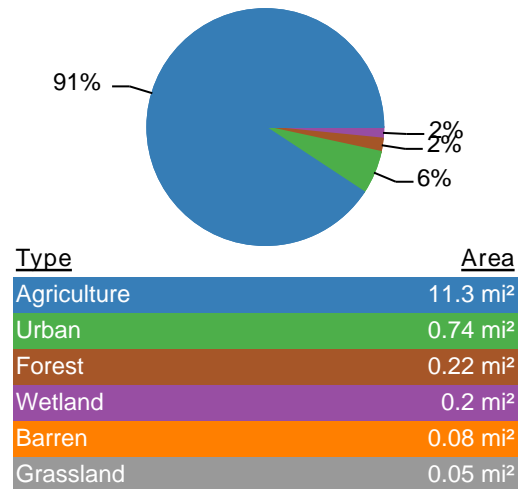
## Stream Flow



## Tributary Stream Type



## Landcover



## PRESTO Phosphorus Load Estimate

Avg. Annual Nonpoint Phosphorous Load (80% Confidence Interval)	8,206 (2,354 - 28,601) lbs
Number of Facilities (Individual Facility Information below)	2
Avg. Annual Point-source Phosphorous Load (2010 - 2012 total of all facilities)	1,608lbs
Most Likely Point : Nonpoint Phosphorous Ratio	16% : 84%
Low Estimate Point : Nonpoint Phosphorous Ratio (Adaptive Management)	5% : 95%

## Adaptive Management Results

Facilities Discharging to the Kummel Creek Watershed:

Facility Name	Permit #	Outfall #	Waste Type	Receiving Water	Avg. Phosphorus Load (lbs.) (2010 - 2012)
BROWNSVILLE WASTEWATER TREATMENT FACILITY	0021601	001	Municipal	Kummel Creek	846
GRANDE CHEESE CO BROWNSVILLE	0050016	003	Industrial	Kummel Creek	762

## Watershed Analysis Limitations

- This analysis relies on pre-defined catchments from the Wisconsin Hydrography Data-Plus and may not delineate from the exact location required. When assessing phosphorus loads for specific facility in support of efforts such as adaptive management, care should be taken to ensure that additional downstream point sources do not exist. For adaptive management information related to specific facilities please reference the PRESTO website <http://dnr.wi.gov/topic/surfacewater/presto.html>
- Delineation of watersheds is based on a topographic assessment and therefore do not account for modified drainage networks such as stormwater sewer systems and ditched agriculture.
- If a watershed requires delineation from an exact location the user may use the desktop version of PRESTO that requires ESRI ArcGIS. The PRESTO tool and default datasets can be downloaded at <http://dnr.wi.gov/topic/surfacewater/presto.html>
- Data sources for this report originate from the WDNR's Wisconsin Hydrography Data-Plus value-added dataset and the point and non-point source loading information including in the WDNR's PRESTO model.
- If you have questions about the report generated from the PRESTO-Lite application please contact: [DNRWATERQUALITYMODELING@wisconsin.gov](mailto:DNRWATERQUALITYMODELING@wisconsin.gov)

# ATTACHMENT D

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## SnapPlus Modeling Reports (Historic)



## NM1: Narrative and Crops Report

Starting Year	2016
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date:	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Farm has 2 fields totalling 88.3 acres

**Farm Narrative:** The Elsingher Farm is located on Hwy AH in the Town of Lomira. There are currently about 2925 acres in the plan. They currently grow corn, corn silage, alfalfa, wheat, soybeans and peas. Cover Crops of Oatdrilled s are used at times following Peas. Alfalfa seeding is typically done in the Summer after Peas or Wheat. Tillage for Corn is typically spring vertical till incorporating Urea except where manure was injected in the fall. There are 650 milk cows(including dry cows) and associated young stock on the farm generating about 8 million gals and 1000 tons of manure and 1000 ton of Sand Laden Manure. About 160 heifers between 600 lb and 1000 lbs are raised off the farm and that manure is not included in this plan. The pit holds 4.5 million gals and is emptied in the fall and Spring using dragline and Frac tanks for farms further away from Dairy. All youngstock is kept on a bedded pack. All yards are scraped and hauled regularly and as needed. This plan is P based and tries to keep the phosphorus in a negative position on high testing soils, over the rotation. He Has been re soil testing all the farms on 2 1/2 acre grids to take advantage of VRT fertilizer applications.All fields meet T for tolerable soil loss with planned tillage, crops, cover crops and rotations. For 2016 i implemented the new soils maps and Snap Plus 15.1 which changed a lot of critical soil types and lowered T values across many fields. Some of these fields are going to need blends of Alfalfa and Brome Grass or something similar for many years to meet the 2 and 3 T soils on some of these fields along with reduced tillage.

### Annual Farm Notes:

Crop Year	Annual Notes
2017	No till and crop rotation are the tools used to reduce concentrated flow. Some Grassed waterways are used when needed.

**Spreader Calibration Methods:** Custom applications, Equipment calibration, Amount applied / Acres

### Narrative and Crops:

Field Name	Acres	2016	2017	2018	2019	2020	2021	2022	2023
A	6.2	Corn grain Spring vertical tillage 191-210 bu/acre	Soybeans 7-10 inch row No Till 66-75 bu/acre	Corn grain Spring vertical tillage 191-210 bu/acre	Soybeans 7-10 inch row No Till 66-75 bu/acre	Corn grain Spring vertical tillage 191-210 bu/acre	Soybeans 7-10 inch row No Till 66-75 bu/acre	Corn grain Spring vertical tillage 191-210 bu/acre	Soybeans 7-10 inch row No Till 66-75 bu/acre
B	82.1	Soybeans 30-36 inch row Spring vertical tillage 46-55 bu/acre	Peas Spring vertical tillage 4001-6000 lb/acre	Soybeans 30-36 inch row Spring vertical tillage 46-55 bu/acre	Peas Spring vertical tillage 4001-6000 lb/acre	Soybeans 30-36 inch row Spring vertical tillage 46-55 bu/acre	Peas Spring vertical tillage 4001-6000 lb/acre	Soybeans 30-36 inch row Spring vertical tillage 46-55 bu/acre	Peas Spring vertical tillage 4001-6000 lb/acre

**Summary by Crop:****NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.**

Crops Grouped By Category		2016	2017	2018	2019	2020	2021	2022	2023
Corn grain	Acres bu	6 1,203		6 1,203		6 1,203		6 1,203	
Soybeans 7-10 inch row	Acres bu		6 423		6 423		6 423		6 423
Peas	Acres lb		82 410,041		82 410,041		82 410,041		82 410,041
Soybeans 30-36 inch row	Acres bu	82 4,141		82 4,141		82 4,141		82 4,141	

## FM6: Soil Test Report

Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field Name	Subfarm	Acres	Predominant		Soil Test Date	Soil Test Lab	Lab Number	Samples		pH	OM%	in ppm			
			Soil Map Symbol	Soil Name				Rec. #	Actual #			P	K	S	CEC
A	Grande	6.2	ScA	ST. CHARLES	2016-11-17	AgSource	785782	1	7	6.9	2.2	29	109	0	10
A	Grande	6.2	ScA	ST. CHARLES	2009-11-19	AgSource	703963	1	8	7.0	2.0	29	100	0	10
A	Grande	6.2	ScA	ST. CHARLES	2005-11-29	94059	24	1	4	5.4	2.4	46	128	0	0
B	Grande	82.1	ScA	ST. CHARLES	2016-04-20	ROCK RIVER LAB	188119	16	40	6.8	2.8	81	113	0	14

### Crop Year Soil Test Needed

Field Name	Soil Test Date	2016	2017	2018	2019	2020	2021	2022
A	2016-11-17						X	
B	2016-04-20					X		

## FM2: Application Summary Report

Starting Year	2016
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date:	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

### Annual Manure Production And Use By Source

Total Value = \$ Value of all nutrients, incorporated including S.

Source
--------

### Application Results Reported For Farm All

#### Annual Pounds Of Available N, P2O5 And K2O Applied From Manure and Fertilizer.

		2016	2017	2018	2019	2020	2021	2022
Produced from Manure (lb)	Ninj	0	0	0	0	0	0	0
	P2O5	0	0	0	0	0	0	0
	K2O	0	0	0	0	0	0	0
Total Available Manure Nutrients Applied (lb)	Ninj	0	0	0	0	0	0	0
	P2O5	0	0	0	0	0	0	0
	K2O	0	0	0	0	0	0	0
Total Fertilizer Nutrients Applied (lb)	N	1,839	2,821	1,839	2,821	1,839	2,821	1,839
	P2O5	143	285	143	285	143	285	143
	K2O	8,231	5,754	8,231	5,754	8,231	5,754	8,231
Total Crop Removal (lb)	P2O5	3,749	2,394	3,749	2,394	3,749	2,394	3,749
	K2O	6,119	4,315	6,119	4,315	6,119	4,315	6,119
Nutrient Balance (Applied - Crop removal, lb)	P2O5	-3,606	-2,108	-3,606	-2,108	-3,606	-2,108	-3,606
	K2O	2,112	1,439	2,112	1,439	2,112	1,439	2,112



<b>Annual Pounds Of Available N, P2O5 And K2O Applied From Manure and Fertilizer.</b>		
		<b>2023</b>
Produced from Manure (lb)	Ninj	0
	P2O5	0
	K2O	0
Total Available Manure Nutrients Applied (lb)	Ninj	0
	P2O5	0
	K2O	0
Total Fertilizer Nutrients Applied (lb)	N	2,821
	P2O5	285
	K2O	5,754
Total Crop Removal (lb)	P2O5	2,394
	K2O	4,315
Nutrient Balance (Applied - Crop removal, lb)	P2O5	-2,108
	K2O	1,439

## NM4: Manure Tracking Report

Starting Year	2016-2023
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date:	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

### Annual Manure Production And Use By Source

Total Value = \$ Value of all nutrients, incorporated including S.

No Rows Found

### Estimated Livestock Manure Production For 2016-2023

No Livestock Found

### Manure Storage For 2016-2023

No Storages Found

### Spreaders For 2016-2023

No Spreaders Found

### NM3: Field Data and 590 Assessment Plan

<b>Reported For</b>	<b>Grande WQT Fields</b>
<b>Printed</b>	2020-11-13
<b>Plan Completion/Update Date</b>	2020-03-05
<b>SnapPlus Version 19.3 built on 2020-05-11</b>	
<b>C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb</b>	

**Prepared for:**  
Grande WQT Fields  
attn:Lynn Morrison

### Field Data: 88 Total Acres Reported.

Field Name	SubF arm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P205 Bal lb/ac	P205 Bal Target lb/ac
A	Grande			6.2	Dodge	ST. CHARLES ScA	1	250	0 - 2	1001 - 5000	No / No	No	No	PE-Cg-Sg15-Cg-Sg7	SFC-SVT-NT-SVT-NT	2013-2017	5	0.9	0.6	1	29	-74	-
B	Grande			82.1	Dodge	LOMIRA LvB	4	200	0 - 2	301 - 1000	No / No	No	No	Sg30-PE	SVT-SVT	2016-2017	5	11.9	-0.7	14	81	-65	0

#### Crop Abbreviations

Abbreviation	Crop
Cg	Corn grain
PE	Peas
Sg15	Soybeans 15-20 inch row
Sg30	Soybeans 30-36 inch row
Sg7	Soybeans 7-10 inch row

#### Tillage Abbreviations

Abbreviation	Tillage
NT	No Till
SFC	Spring Cultivation
SVT	Spring vertical tillage

## FM9: Nutrient Management Report

Crop Year	2018
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2017 Crop	2018 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Soybeans 7-10 inch row	Corn grain	191-210	Spring vertical tillage	140 0.05 /MRTN	24	60	151	23	96	11	-1	36
B	82.1	ST. CHARLES ScA	81	113	Peas	Soybeans 30-36 inch row	46-55	Spring vertical tillage	0	0	30	11	0	93	11	0	63

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2019
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data				Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions		Avg P	Avg K	2018 Crop	2019 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES	ScA	29	109	Corn grain	Soybeans 7-10 inch row	66-75	No Till	0	30	64	18	46	107	18	16	43
B	82.1	ST. CHARLES	ScA	81	113	Soybeans 30-36 inch row	Peas	4001-6000	Spring vertical tillage	30	0	0	33	0	62	3	0	62

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2020
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2019 Crop	2020 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Soybeans 7-10 inch row	Corn grain	191-210	Spring vertical tillage	120 0.1 /MRTN	24	17	151	23	96	31	-1	79
B	82.1	ST. CHARLES ScA	81	113	Peas	Soybeans 30-36 inch row	46-55	Spring vertical tillage	0	0	0	11	0	93	11	0	93

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2021
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data				Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions		Avg P	Avg K	2020 Crop	2021 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES	ScA	29	109	Corn grain	Soybeans 7-10 inch row	66-75	No Till	0	30	21	18	46	107	18	16	86
B	82.1	ST. CHARLES	ScA	81	113	Soybeans 30-36 inch row	Peas	4001-6000	Spring vertical tillage	30	0	0	33	0	62	3	0	62

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2022
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2021 Crop	2022 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Soybeans 7-10 inch row	Corn grain	191-210	Spring vertical tillage	120 0.1 /MRTN	24	0	151	23	96	31	-1	96
B	82.1	ST. CHARLES ScA	81	113	Peas	Soybeans 30-36 inch row	46-55	Spring vertical tillage	0	0	0	11	0	93	11	0	93

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.



## FM9: Nutrient Management Report

Crop Year	2023
Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data				Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions		Avg P	Avg K	2022 Crop	2023 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES	ScA	29	109	Corn grain	Soybeans 7-10 inch row	66-75	No Till	0	30	0	18	46	107	18	16	107
B	82.1	ST. CHARLES	ScA	81	113	Soybeans 30-36 inch row	Peas	4001-6000	Spring vertical tillage	30	0	0	33	0	62	3	0	62

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

# WQ1: P Trade Report

<b>Reported For</b>	<b>Grande WQT Fields</b>
<b>Printed</b>	2020-11-13
<b>Plan Completion/Update Date</b>	2020-03-05
<b>SnapPlus Version 19.3 built on 2020-05-11</b>	
<b>C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb</b>	

**Prepared for:**  
Grande WQT Fields  
attn:Lynn Morrison

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to <http://dnr.wi.gov/> and type keyword: **Water Quality Trading**

**Questions?** Please contact  
DNRphosphorus@wisconsin.gov

*This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.*

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2018	2019	2020	2021	2022	2023
A	ST. CHARLES	ScA	6	4	4	4	4	3	4
B	ST. CHARLES	ScA	82	329	310	321	303	313	297
<b>Total</b>			<b>88</b>	<b>333</b>	<b>314</b>	<b>324</b>	<b>307</b>	<b>316</b>	<b>301</b>

## WQ2: Sediment Trade Report

Reported For	Grande WQT Fields
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Historic Snap Database.snapDb	

Prepared for:  
Grande WQT Fields  
attn:Lynn Morrison

The Sediment Trade Report estimates the annual tons of sediment in surface runoff from cropland entering surface waters. These sediment delivery calculations are based on RUSLE2 estimates of sheet and rill erosion for the predominant soil. Sediment losses from concentrated flow channel or gully erosion within a field are not included in these calculations. Field sediment yields are calculated for each year as US tons/field/year. Fields are only included if there at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, sediment losses must be converted into 'credits' according to DNR guidance.

For more information go to <http://dnr.wi.gov> and type keyword: **Water Quality Trading**

*This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.*

## Sediment Trading

Field Name	Soil Series	Soil Symbol	Acres	Sediment (US Tons)					
				2018	2019	2020	2021	2022	2023
A	ST. CHARLES	ScA	6.2	0.51	0.31	0.51	0.31	0.51	0.31
B	ST. CHARLES	ScA	82.1	56.30	59.85	56.15	59.80	56.11	59.78
Total				56.81	60.16	56.66	60.11	56.61	60.09

**Questions?** Please contact  
DNRphosphorus@wisconsin.gov

# ATTACHMENT E

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## SnapPlus Modeling Reports (Updated)



## NM1: Narrative and Crops Report

Starting Year	2018
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date:	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Farm has 2 fields totalling 88.3 acres

**Farm Narrative:** The Elsinger Farm is located on Hwy AH in the Town of Lomira. There are currently about 2925 acres in the plan. They currently grow corn, corn silage, alfalfa, wheat, soybeans and peas. Cover Crops of Oatdrilled s are used at times following Peas. Alfalfa seeding is typically done in the Summer after Peas or Wheat. Tillage for Corn is typically spring vertical till incorporating Urea except where manure was injected in the fall. There are 650 milk cows(including dry cows) and associated young stock on the farm generating about 8 million gals and 1000 tons of manure and 1000 ton of Sand Laden Manure. About 160 heifers between 600 lb and 1000 lbs are raised off the farm and that manure is not included in this plan. The pit holds 4.5 million gals and is emptied in the fall and Spring using dragline and Frac tanks for farms further away from Dairy. All youngstock is kept on a bedded pack. All yards are scraped and hauled regularly and as needed. This plan is P based and tries to keep the phosphorus in a negative position on high testing soils, over the rotation. He Has been re soil testing all the farms on 2 1/2 acre grids to take advantage of VRT fertilizer applications.All fields meet T for tolerable soil loss with planned tillage, crops, cover crops and rotations. For 2016 i implemented the new soils maps and Snap Plus 15.1 which changed a lot of critical soil types and lowered T values across many fields. Some of these fields are going to need blends of Alfalfa and Brome Grass or something similar for many years to meet the 2 and 3 T soils on some of these fields along with reduced tillage.

### Annual Farm Notes:

No Annual Farm Notes

**Spreader Calibration Methods:** Custom applications, Equipment calibration, Amount applied / Acres

### Narrative and Crops:

Field Name	Acres	2018	2019	2020	2021	2022	2023
A	6.2	Peas to Soybeans, 7 inch row Spring Cultivation 4001-6000/36-45 lb/acre/bu/acre	Alfalfa/Brome None 5.6-6.5 ton/acre	Alfalfa/Brome None 5.6-6.5 ton/acre	Corn grain No Till 231-250 bu/acre	Alfalfa/Brome None 5.6-6.5 ton/acre	Alfalfa/Brome None 5.6-6.5 ton/acre

Field Name	Acres	2018	2019	2020	2021	2022	2023
B	82.1	Winter wheat (grain +straw) to Late-Direct Seeded Legume Forage Field Cultivation 81-100 bu/acre/ton/acre	Alfalfa Seeding Fall No Till 1.0-2.5 ton/acre	Alfalfa None 5.6-6.5 ton/acre	Alfalfa None 5.6-6.5 ton/acre	Alfalfa None 5.6-6.5 ton/acre	Alfalfa None 5.6-6.5 ton/acre

**Summary by Crop:**

NOTE: Yields calculated using the midpoint of the SnapPlus yield goal range for each crop.

Crops Grouped By Category		2018	2019	2020	2021	2022	2023
Alfalfa/Brome	Acres ton		6 36	6 36		6 36	6 36
Corn grain	Acres bu				6 1,443		
Peas to Soybeans, 7 inch row	Acres lb/bu	6 30,003/243					
Alfalfa	Acres ton			82 496	82 496	82 496	82 496
Alfalfa Seeding Fall	Acres ton		82 144				
Winter wheat (grain +straw) to Late-Direct Seeded Legume Forage	Acres bu/ton	82 7,421					

## FM6: Soil Test Report

Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field Name	Subfarm	Acres	Predominant		Soil Test Date	Soil Test Lab	Lab Number	Samples		pH	OM%	in ppm			
			Soil Map Symbol	Soil Name				Rec. #	Actual #			P	K	S	CEC
A	Grande	6.2	ScA	ST. CHARLES	2016-11-17	AgSource	785782	1	7	6.9	2.2	29	109	0	10
A	Grande	6.2	ScA	ST. CHARLES	2009-11-19	AgSource	703963	1	8	7.0	2.0	29	100	0	10
A	Grande	6.2	ScA	ST. CHARLES	2005-11-29	94059	24	1	4	5.4	2.4	46	128	0	0
B	Grande	82.1	ScA	ST. CHARLES	2016-04-20	ROCK RIVER LAB	188119	16	40	6.8	2.8	81	113	0	14

### Crop Year Soil Test Needed

Field Name	Soil Test Date	2016	2017	2018	2019	2020	2021	2022
A	2016-11-17						X	
B	2016-04-20					X		



## FM2: Application Summary Report

Starting Year	2018
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date:	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

### Annual Manure Production And Use By Source

Total Value = \$ Value of all nutrients, incorporated including S.

Source
--------

### Application Results Reported For Farm All

Annual Pounds Of Available N, P2O5 And K2O Applied From Manure and Fertilizer.		2018	2019	2020	2021	2022	2023
Produced from Manure (lb)	Ninj	0	0	0	0	0	0
	P2O5	0	0	0	0	0	0
	K2O	0	0	0	0	0	0
Total Available Manure Nutrients Applied (lb)	Ninj	0	0	0	0	0	0
	P2O5	0	0	0	0	0	0
	K2O	0	0	0	0	0	0
Total Fertilizer Nutrients Applied (lb)	N	7,233	99	186	0	99	186
	P2O5	285	0	229	0	0	229
	K2O	5,834	1,860	21,564	19,704	21,564	21,564
Total Crop Removal (lb)	P2O5	4,857	2,549	7,064	7,126	7,064	7,064
	K2O	8,009	10,853	31,788	29,990	31,788	31,788
Nutrient Balance (Applied - Crop removal, lb)	P2O5	-4,571	-2,549	-6,835	-7,126	-7,064	-6,835
	K2O	-2,175	-8,993	-10,224	-10,286	-10,224	-10,224

## NM4: Manure Tracking Report

Starting Year	2016-2023
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date:	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

### Annual Manure Production And Use By Source

Total Value = \$ Value of all nutrients, incorporated including S.

No Rows Found

### Estimated Livestock Manure Production For 2016-2023

No Livestock Found

### Manure Storage For 2016-2023

No Storages Found

### Spreaders For 2016-2023

No Spreaders Found

### NM3: Field Data and 590 Assessment Plan

<b>Reported For</b>	<b>Grande WQT</b>
<b>Printed</b>	2020-11-13
<b>Plan Completion/Update Date</b>	2020-03-05
<b>SnapPlus Version 19.3 built on 2020-05-11</b>	
<b>C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb</b>	

**Prepared for:**  
Grande WQT  
attn:Lynn Morrison

### Field Data: 88 Total Acres Reported.

Field Name	SubF arm	FSA Trct	FSA Fld	Acres	County	Critical Soil Series & Symbol	F. Slp %	F.Slp Len ft	Below Field Slope To Water %	Dist.To Water ft	Contour/ Filters	Irrig	Tiled	Rotation	Tillage	Report Period	Field "T" t/ac	Rot Avg Soil Loss t/ac	SCI	Rot Avg PI	Soil Test P ppm	Rot P2O5 Bal lb/ac	P2O5 Bal Target lb/ac
A	Grande			6.2	Dodge	ST. CHARLES ScA	1	250	0 - 2	1001 - 5000	No / No	No	No	PE-Cg-Sg15-Cg-Sg7-[PE-Sg7]-AB-AB	SFC-SVT-NT-SVT-NT-SFC-None-None	2013-2020	5	0.5	0.7	1	29	-206	-
B	Grande			82.1	Dodge	LOMIRA LvB	4	200	0 - 2	301 - 1000	No / No	No	No	Sg30-PE-[Wwg+s-Fs]-Asls-A-A-A	SVT-SVT-Fcult-NT-None-None-None	2016-2022	5	2.6	0.3	4	81	-385	0

Abbreviation	Crop
[PE-Sg7]	Peas to Soybeans, 7 inch row
[Wwg+s-Fs]	Winter wheat (grain+straw) to Late-Direct Seeded Legume Forage
A	Alfalfa
AB	Alfalfa/Brome
Asls	Alfalfa Seeding Fall
Cg	Corn grain

Abbreviation	Tillage
Fcult	Field Cultivation
None	None
NT	No Till
SFC	Spring Cultivation
SVT	Spring vertical tillage

PE	Peas
Sg15	Soybeans 15-20 inch row
Sg30	Soybeans 30-36 inch row
Sg7	Soybeans 7-10 inch row

## FM9: Nutrient Management Report

Crop Year	2018
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2017 Crop	2018 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Soybeans 7-10 inch row	Peas to Soybeans, 7 inch row	4001-6000/36-45	Spring Cultivation	30	14	170	41	46	120	11	32	-50
B	82.1	ST. CHARLES ScA	81	113	Peas	Winter wheat (grain+straw) to Late-Direct Seeded Legume Forage	81-100	Field Cultivation	75 0.05 /MRTN	0	50	105	0	62	30	0	12

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table

+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.
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## FM9: Nutrient Management Report

Crop Year	2019
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2018 Crop	2019 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Peas to Soybeans, 7 inch row	Alfalfa/Brome	5.6-6.5	None	0	8	400	16	0	300	16	-8	-100
B	82.1	ST. CHARLES ScA	81	113	Winter wheat (grain+straw) to Late-Direct Seeded Legume Forage	Alfalfa Seeding Fall	1.0-2.5	No Till	0	0	93	40	0	0	40	0	-93

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table

+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.
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## FM9: Nutrient Management Report

Crop Year	2020
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2019 Crop	2020 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Alfalfa/Brome	Alfalfa/Brome	5.6-6.5	None	0	40	400	30	37	300	30	-3	-100
B	82.1	ST. CHARLES ScA	81	113	Alfalfa Seeding Fall	Alfalfa	5.6-6.5	None	0	0	360	0	0	240	0	0	-120

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2021
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2020 Crop	2021 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Alfalfa/Brome	Corn grain	231-250	No Till	165 0.1 /MRTN	45	70	90	0	0	-75	-45	-70
B	82.1	ST. CHARLES ScA	81	113	Alfalfa	Alfalfa	5.6-6.5	None	0	0	360	0	0	240	0	0	-120

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2022
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2021 Crop	2022 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Corn grain	Alfalfa/Brome	5.6-6.5	None	0	40	400	16	0	300	16	-40	-100
B	82.1	ST. CHARLES ScA	81	113	Alfalfa	Alfalfa	5.6-6.5	None	0	0	360	0	0	240	0	0	-120

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

## FM9: Nutrient Management Report

Crop Year	2023
Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

Field data: 88 total acres reported.

Field Data			Soil Test ppm		Crop Data				Recommendations			Planned Applications and Credits			Over(+)/Under(-) UW Recs		
Field Name	Ac	Predominant Soil and N Restrictions	Avg P	Avg K	2022 Crop	2023 Crop	Yield Goal	Tillage	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac	N lb/ac	P2O5 lb/ac	K2O lb/ac
A	6.2	ST. CHARLES ScA	29	109	Alfalfa/Brome	Alfalfa/Brome	5.6-6.5	None	0	40	400	30	37	300	30	-3	-100
B	82.1	ST. CHARLES ScA	81	113	Alfalfa	Alfalfa	5.6-6.5	None	0	0	360	0	0	240	0	0	-120

### Restriction Legend

Code	Description of Code
S	Field is in SWQMA
D	Drinking water well within 50 feet of field.
C	Conduit to groundwater within 300 feet
L	Local restrictions on nutrient applications.
%	Slope restriction for winter applications
P	High permeability N restricted soils
R	N restricted soils with less than 20 inches to bedrock
W	N restricted soils with less than 12 inches to apparent water table
+	This map unit may have any of the N restrictive features, however an on-site investigation is needed to identify which restrictions may actually be present.

# WQ1: P Trade Report

Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

The P Trade Report estimates the annual pounds of phosphorus (P) in surface runoff from cropland entering surface waters. These P loss calculations are based on a field's soil test P concentration, crops, tillage, nutrient management practices and estimates of average runoff and sheet and rill erosion for the predominant soil type. Losses from concentrated flow channel or gully erosion with a field are not included in these calculations. Field runoff losses are calculated for each year as **PTP** (lb P/field/yr). Fields are only included if there are at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, phosphorus losses (PTP) must be converted into 'P credits' according to DNR guidance.

For more information go to <http://dnr.wi.gov/> and type keyword: **Water Quality Trading**

**Questions?** Please contact  
DNRphosphorus@wisconsin.gov

*This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.*

P Trade Report				PTP					
Field Name	Soil Series	Soil Symbol	Acres	2018	2019	2020	2021	2022	2023
A	ST. CHARLES	ScA	6	7	2	2	1	0	0
B	ST. CHARLES	ScA	82	195	96	82	65	50	37
<b>Total</b>			<b>88</b>	<b>202</b>	<b>99</b>	<b>84</b>	<b>66</b>	<b>50</b>	<b>38</b>

## WQ2: Sediment Trade Report

Reported For	Grande WQT
Printed	2020-11-13
Plan Completion/Update Date	2020-03-05
SnapPlus Version 19.3 built on 2020-05-11	
C:\Users\lmorrison.PROBST\Desktop\Grande WQT Future Snap Database.snapDb	

Prepared for:  
Grande WQT  
attn:Lynn Morrison

The Sediment Trade Report estimates the annual tons of sediment in surface runoff from cropland entering surface waters. These sediment delivery calculations are based on RUSLE2 estimates of sheet and rill erosion for the predominant soil. Sediment losses from concentrated flow channel or gully erosion within a field are not included in these calculations. Field sediment yields are calculated for each year as US tons/field/year. Fields are only included if there at least 2 years of crops before the selected start year. Before using this report as part of a Water Quality Trade activity, sediment losses must be converted into 'credits' according to DNR guidance.

For more information go to <http://dnr.wi.gov> and type keyword: **Water Quality Trading**

*This report was developed for Wisconsin DNR Water Quality Trading and Adaptive Management purposes and cannot be used to demonstrate compliance with NR 151 or NRCS 590 NM plan requirements.*

## Sediment Trading

Field Name	Soil Series	Soil Symbol	Acres	Sediment (US Tons)					
				2018	2019	2020	2021	2022	2023
A	ST. CHARLES	ScA	6.2	0.76	0.28	0.13	0.08	0.02	0.01
B	ST. CHARLES	ScA	82.1	34.84	12.18	9.20	6.37	3.97	2.29
Total				35.60	12.46	9.33	6.44	3.99	2.30

**Questions?** Please contact  
DNRphosphorus@wisconsin.gov



# ATTACHMENT F

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## “Practice Registration Form” 3400-207



State of Wisconsin  
 Department of Natural Resources  
 101 South Webster Street  
 Madison WI 53707-7921  
 dnr.wi.gov

**Water Quality Trading Management  
 Practice Registration**  
 Form 3400-207 (R 1/14)

Notice: Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that is using water quality trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

**Applicant Information**

Permittee Name <b>Grande Cheese Company</b>		Permit Number <b>WI- 0050016-09</b>	Facility Site Number	
Facility Address <b>N11689 Dairy Road</b>		City <b>Brownsville</b>	State <b>WI</b>	ZIP Code <b>53006</b>
Project Contact Name (if applicable) <b>Lynn Morrison, Probst Group</b>	Address <b>17035 W Wisconsin Ave Suite 120</b>	City <b>Brookfield</b>	State <b>WI</b>	ZIP Code <b>53005</b>
Project Name <b>Grande Brownsville WQT</b>				

**Broker/Exchange Information (if applicable)**

Was a broker/exchange be used to facilitate trade?  Yes  No

Broker/Exchange Organization Name	Contact Name
Address	Phone Number
	Email

**Trade Registration Information (Use a separate form for each trade agreement)**

Type	Trade Agreement Number	Practices Used to Generate Credits	Anticipated Load Reduction			Trade Ratio	Method of Quantification
			Year	TP [lbs/yr]	TSS [lbs/yr]		
<input type="radio"/> Urban NPS <input checked="" type="radio"/> Agricultural NPS <input type="radio"/> Other	TBD	Whole Field Management (NRCS 590)	2018	109	3,535	1.2:1	SnapPlus V2 (19.3.20132.1702)
			2019	180	7,950		
			2020	200	7,888		
			2021	201	8,943		
			2022	222	8,772		
			2023	219	9,632		

County <b>Dodge</b>	Closest Receiving Water Name <b>Kummel Creek (WBIC 863500)</b>	Land Parcel ID(s) 1111-000, 1221-000, 1222-000, 1223-000, 1224-000	Parameter(s) being traded <b>Total Phosphorus</b>
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**The preparer certifies all of the following:**

- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer 	Date Signed <b>11/24/2020</b>
--	----------------------------------

**Authorized Representative Signature**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative 	Date Signed <b>11/23/20</b>
---	--------------------------------

Leave Blank - For Department Use Only			
Date Received	Trade Docket Number		
Entered in Tracking System <input type="checkbox"/> Yes	Date Entered	Name of Department Reviewer	

# ATTACHMENT G

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## Water Quality Trading Checklist





**Notice:** Pursuant to s. 283.84, Wis. Stats., this form must be completed by any WPDES permittee that intends to pursue pollutant trading as a method of complying with a permit limitation. Failure to complete this form would not result in penalties. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

**Applicant Information**

Permittee Name Grande Cheese Company		Permit Number WI- 0050016-09	Facility Site Number	
Facility Address N11689 Dairy Road		City Brownsville	State WI	ZIP Code 53006
Project Contact Name (if applicable) Lynn Morrison, Probst Group	Address 17035 W. Wisconsin Ave	City Brookfield	State WI	ZIP Code 53005
Project Name Grande Brownsville WQT				
Receiving Water Name Kummel Creek	Parameter(s) being traded Total Phosphorus, Total Suspended Solids	HUC 12(s) 070900010104		

**Credit Generator Information**

Credit generator type (select all that apply):

<input type="checkbox"/> Permitted Discharge (non-MS4CAFO)	<input type="checkbox"/> Urban nonpoint source discharge
<input type="checkbox"/> Permitted MS4	<input checked="" type="checkbox"/> Agricultural nonpoint source discharge
<input type="checkbox"/> Permitted CAFO	<input type="checkbox"/> Other - Specify: _____

Are any of the credit generators in a different HUC 12 than the applicant?  Yes; HUC 12: \_\_\_\_\_  
 No

Are any of the credit generators downstream of the applicant?  Yes  
 No

Will a broker/exchange be used to facilitate trade?  Yes (include description and contact information in WQT plan)  
 No

**Point to Point Trades (Traditional Municipal / Industrial, MS4, CAFO)**

Are each of the point source credit generators identified in this section in compliance with their WDPES permit requirements?  Yes  
 No

Discharge Type	Permit Number	Name	Contact Information	Trade Agreement Number
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				
<input type="radio"/> Traditional <input type="radio"/> MS4 <input type="radio"/> CAFO				

# Water Quality Trading Checklist

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## Point to Point Trades (Traditional Municipal / Industrial, MS4, CAFO) *cont.*

Does plan have a narrative that describes:		Plan Section
a. Summary of discharge and existing treatment including optimization	<input type="radio"/> Yes <input type="radio"/> No	
b. Amount of credit being generated	<input type="radio"/> Yes <input type="radio"/> No	
c. Timeline for credits and agreements	<input type="radio"/> Yes <input type="radio"/> No	
d. Method for quantifying credits	<input type="radio"/> Yes <input type="radio"/> No	
e. Tracking and verification procedures	<input type="radio"/> Yes <input type="radio"/> No	
f. Location of credit generator in proximity to receiving water and credit user	<input type="radio"/> Yes <input type="radio"/> No	
g. Other: _____	<input type="radio"/> Yes <input type="radio"/> No	

## Point to Nonpoint Trades (Non-Permitted Urban, Agricultural, Other)

Discharge Type	Practices Used to Generate Credits	Method of Quantification	Trade Agreement Number	Have the practice(s) been formally registered?
<input type="radio"/> Urban NPS <input checked="" type="radio"/> Agricultural NPS <input type="radio"/> Other	Whole Field Management (NRCS 590)	SnapPlus V2 (19.3.20132.1702)	TBD	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part
<input type="radio"/> Urban NPS <input type="radio"/> Agricultural NPS <input type="radio"/> Other				<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Only in part

Does plan have a narrative that describes:		Plan Section
a. Description of existing land uses	<input checked="" type="radio"/> Yes <input type="radio"/> No	3.3
b. Management practices used to generate credits	<input checked="" type="radio"/> Yes <input type="radio"/> No	3.6
c. Amount of credit being generated	<input checked="" type="radio"/> Yes <input type="radio"/> No	5
d. Description of applicable trade ratio per agreement/management practice	<input checked="" type="radio"/> Yes <input type="radio"/> No	4
e. Location where credits will be generated	<input checked="" type="radio"/> Yes <input type="radio"/> No	2.2
f. Timeline for credits and agreements	<input checked="" type="radio"/> Yes <input type="radio"/> No	7
g. Method for quantifying credits	<input checked="" type="radio"/> Yes <input type="radio"/> No	3.3



# Water Quality Trading Checklist

Form 3400-208 (1/14)

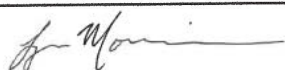
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Does plan have a narrative that describes:		Plan Section
h. Tracking procedures	<input checked="" type="radio"/> Yes <input type="radio"/> No	8
i. Conditions under which the management practices may be inspected	<input checked="" type="radio"/> Yes <input type="radio"/> No	8.6
j. Reporting requirements should the management practice fail	<input checked="" type="radio"/> Yes <input type="radio"/> No	8.4
k. Operation and maintenance plan for each management practice	<input checked="" type="radio"/> Yes <input type="radio"/> No	6.1
l. Location of credit generator in proximity to receiving water and credit user	<input checked="" type="radio"/> Yes <input type="radio"/> No	2.2
m. Practice registration documents, if available	<input checked="" type="radio"/> Yes <input type="radio"/> No	Attachment F
n. History of project site(s)	<input checked="" type="radio"/> Yes <input type="radio"/> No	3.3
o. Other: _____	<input type="radio"/> Yes <input type="radio"/> No	

**The preparer certifies all of the following:**

- I am familiar with the specifications submitted for this application, and I believe all applicable items in this checklist have been addressed.
- I have completed this document to the best of my knowledge and have not excluded pertinent information.
- I certify that the information in this document is true to the best of my knowledge.

Signature of Preparer



Date Signed

11/24/2020

**Authorized Representative Signature**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of those persons directly responsible for gathering and entering the information, the information is, to the best of my knowledge and belief, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Authorized Representative



Date Signed

11/23/20