Assured Wetland Delineation Report

Daybreak Foods Facilities
Creekwood and Lake Mills Sites
Lake Mills, Jefferson County, WI
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Sign-off Sheet

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1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) performed a wetland determination and delineation of the Daybreak Foods Facilities (the "Study Area") on behalf of Daybreak Foods, Inc. The Study Area is split into two sections: the Creekwood site ("Creekwood Study Area") and the Lake Mills site ("Lake Mills Study Area"). The wetland delineation was led by Jeff Kraemer of Stantec, an assured delineator qualified via the Wisconsin Department of Natural Resources (WDNR) Wetland Delineation Assurance Program, on May 16, 2017 (see Appendix G for Delineator Qualifications).

The combined Study Area is approximately 72.65 acres. The Creekwood Study Area is approximately 43.61 acres in size and located in Section 27-28, Township 7 North, Range 13 East, in the Town of Lake Mills, Jefferson County, Wisconsin. Specifically, the Creekwood Study Area is located south of the intersection of CTH A and CTH S (Figure 1a). The Lake Mills Study Area is approximately 29.04 acres in size and located in Section 12, Township 7 North, Range 12 East, in the Town of Deerfield, Dane County, Wisconsin. Specifically, the Lake Mills Study Area is located northwest of the intersection of CTH O and Cottage Grove Road (Figure 1b). The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Areas. Two wetland areas and one pond feature were identified within the Creekwood Study Area and two wetland areas were identified within the Lake Mills Study Area.

Wetland and waterways may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of the Wisconsin DNR, and local regulation under jurisdiction of the local county, town, city, or village. Stantec recommends this report be submitted to local authorities and USACE for final jurisdictional review and concurrence. Delineations completed by a WDNR Assured Delineator do not need to obtain WDNR concurrence.

2.0 METHODS

2.1 WETLANDS

Wetland determinations were based on the criteria and methods outlined in the *U.S. Army Corps of Engineers Wetlands Delineation Manual,* Technical Report Y-87-1 (1987) and subsequent guidance documents, and applicable Regional Supplements to the *Corps of Engineers Wetland Delineation Manual*.

The wetland determination involved the use of available resources to assist in the assessment such as U.S. Geological Survey (USGS) topographic maps, U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) soil survey, and aerial photography.

On-site wetland determinations were made using the three criteria (vegetation, soil, and hydrology) and technical approach defined in the USACE 1987 Manual and applicable Regional Supplement. According to procedures described in the 1987 Manual and applicable Regional Supplement, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands.

As recent weather patterns influence the visibility and presence of some wetland hydrology indicators, the antecedent precipitation in the three months leading up to the field investigation was reviewed. The current year's precipitation data were compared to long-term (30-year) precipitation averages and standard deviation to determine if precipitation was normal, wet, or dry for the area using a WETS analysis as developed by the NRCS.

A review of U.S. Department of Agriculture Farm Service Agency (FSA) annual aerial slides and other available aerial imagery was conducted for the Study Areas to assist in the wetland determination because farmed areas with mapped poorly drained or somewhat poorly drained soils are present within the Study Areas. The aerial imagery was reviewed for the appearance of wetland signatures. A wetland signature is field evidence, recorded by aerial imagery, of ponding, flooding, or impacts of saturation for sufficient duration, which meets wetland hydrology and possibly wetland vegetation criteria. Wetland signatures may vary based on the type and seasonal date of the aerial imagery. Signatures visible on FSA annual aerial slides in cropland for Wisconsin have been categorized as follows (USDA, NRCS 1998):

1. Hydrophytic vegetation (seen as a different color of green)
2. Surface water (usually black or white)
3. Drowned-out crops (bare soil or mud flats)
4. Differences in color due to different planting dates or isolated areas not farmed with the rest of the field
5. Inclusions of wet areas in set-aside program
6. Patches of greener color in "dry" years
7. Crop stress (yellow) or sparse canopy (light green)

8. Saturated soil visible on infrared (IR) slides or photos

The antecedent precipitation in the months leading up to each aerial image was reviewed and compared to long-term (30-year) precipitation averages and standard deviation to determine if each year was normal, wet, or dry using a WETS analysis (Appendix D).

Mapped poorly and somewhat poorly drained soils were identified within the Study Areas and available aerial imagery was analyzed for signatures of wetness consistency in these areas (Off-Site Aerial Imagery Analysis in Appendix E). Areas within agricultural fields are typically identified as wetland if they contain hydric soils and 50% or more of the aerial images taken in the five (or more) most recent normal precipitation years show any of the wetland signatures listed above. However, while the focus of the analysis is on wetland signatures visible in normal precipitation years, years considered wet or dry for received precipitation were also analyzed. Wetland determinations and wetland boundaries are identified based on the aerial image having the largest wetland boundary during a "normal" rainfall year if signatures were apparent in at least 50% of the years (USDA, NRCS 1998).

The uppermost wetland boundary and sampling points were identified and surveyed with a Global Positioning System (GPS) capable of sub-meter accuracy and mapped using Geographical Information System (GIS) software.

3.0 RESULTS

3.1 CREEKWOOD SITE DESCRIPTION

The Creekwood Study Area is comprised of active agricultural fields, a residential structure, a waste water pond in the southeast corner, and two small farmed wetlands. The agricultural field was under corn production the previous year and recently planted prior to the fieldwork. The Creekwood Study Area is relatively flat, sloping from topographic highs of approximately 862 feet mean sea level (msl) on the northeastern area of the site to topographic lows of approximately 844 feet msl at the southwest corner. The Creekwood Study Area is bordered by Daybreak Food Facilities' barns and other agricultural infrastructure to the northeast; agricultural lands to the east, south and west; and CTH A to the northwest.

Soils present within the Creekwood Study Area and their hydric status are summarized in Table 1a. Wetlands identified during the field investigation are located primarily within areas mapped as hydric or partially hydric soils and wetland indicator soils (Appendix A, Figures 2a and 3a).

Table 1a. Summary of Soils Identified within the Creekwood Study Area

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
BbB: Boyer sandy loam, 2 to 6 percent slope	Boyer	80-92	Outwash plains	No
	Fox	5-9	Outwash plains	No
	Casco	2-7	Outwash plains	No
	Dresden	1-4	Outwash plains	No
FsA: Fox silt loam, 0 to 2 percent slopes	Fox	85-100	Outwash plains	No
	Kane	0-8	Outwash plains	No
	St. Charles-Gravelly Substratum	0-7	Outwash plains	No
MmA: Matherton silt loam, 0 to 3 percent slopes	Matherton	90	Terraces on outwash plains	No
	Sebewa soils		Depressions	Yes
Sm: Sebewa silt loam, 0 to 2 percent slopes	Sebewa	80-95	Depressions	Yes
	Adrian	3-12	Lakebeds (relict)	Yes
	Ionia	1-5	Rises	No
	Fox	0-3	Rises	No

The WWI map identifies no wetland areas within the Creekwood Study Area, but identifies multiple wetlands outside the Creekwood Study Area adjacent to the eastern boundary, as well as wetland indicator soils in the southwest portion of the Creekwood Study Area (Appendix A, Figure 4a). The field delineated wetlands (W-1 and W-2) are not identified on the WWI map (Appendix A, Figure 5a).

Average precipitation for the Creekwood investigation area was obtained from the Watertown, WI WETS weather station and used for the WETS analysis. A total of 9.51 inches of precipitation occurred in the three-month time period prior to the field investigation in 2017 compared to the long-term average of 6.43 inches. Based on the WETS analysis, conditions were wetter than normal (Appendix D).

3.2 WETLANDS—CREEKWOOD

Two wetlands were identified and delineated within the Creekwood Study Area. One wastewater containment pond was mapped. Wetland determination data forms were completed for six sample points along transects through the wetlands and adjacent uplands and are contained in Appendix B. Photographs of the wetlands and adjacent lands are contained in Appendix C. The wetland boundary and sample point locations are shown on Figure 5a (Appendix A). The wetlands are summarized in Table 2a below and described in detail in the following sections.

Table 2a. Summary of Wetlands Identified within the Creekwood Study Area

Wetland	Wetland Type	Adjacent Surface Waters	Acreage (on-site)
Wetland 1 (W-1)	Farmed Wetland	Drainage ditch	0.74 acres
Wetland 2 (W-2)	Farmed Wetland	No direct connections observed	0.17 acres

3.2.1 Wetland 1

Wetland 1 (W-1) is a farmed wetland community near the southwest boundary of the Creekwood Study Area. It appears to be connected to a drainage ditch which is eventually tributary to Koshkonong Creek, and ultimately the Rock River.

Vegetation

There was no vegetation within W-1 at the time of investigation. It appears to not have been planted prior to the onsite investigation in spring of 2017, likely due to excessive soil moisture. Based on crop stubble residue, there was evidence of crop stress in 2016, and residue included barnyard grass (*Echinocloa crus-galii*, FAC).

Hydrology

The wetland appears to have a seasonally saturated to inundated hydroperiod. Primary indicators included inundated and saturated soils. Secondary indicators of wetland hydrology observed included Stunted or Stressed Plants (D1) and Geomorphic Position (D2). Based on a

review of historic aerial imagery, there were relatively consistent wet signatures in this area, observed in both normal and dry years, including darker soils, stressed crops, bare soils/failed crop, and darker colored vegetation relative to non-wetland portions of the agricultural field. Damaged/broken drain tile may be a potential driver of observed wetland signatures. Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Matherton silt loam and Sebewa silt loam (Appendix A, Figure 2a). The soils observed at sample point P4 in the wetland were generally inconsistent with the mapped Matherton series characteristics, and showed signs of disturbance including mixed matrix from 15—20 inches depth. A natural gas pipeline through the area may be related to observed signs of soil disturbance. Field indicators of hydric soil were observed, including F6 – Redox Dark Surface.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a farmed wetland community showing evidence of stressed crop stubble to an upland agricultural field where crop stress signs were absent; 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; 3) Transition from likely hydric soils exhibiting signs of disturbance to soils lacking indicators of hydric soil conditions; and 4) location of crop stress signatures from the off-site aerial imagery analysis in normal precipitation years consistent with observations made in the field. The transition from wetland to upland characteristics generally correlated with a subtle topographic break.

3.2.2 Wetland 2

Wetland 2 (W-2) is a small farmed wetland near the wastewater pond in the southeast corner of the Creekwood Study Area. W-2 has no direct inlets or outlets. This wetland appears to have been formed as a result of grading associated with construction of the manure pond directly southeast of the wetland and/or filling/grading north of the wetland which may have disabled segments of draintile.

Vegetation

There was no vegetation present within W-1 at the time of investigation. This area was planted around in 2017.

Hydrology

The wetland appears to have a seasonally inundated/saturated hydroperiod. Primary indicators included inundation and saturation. Secondary indicators of wetland hydrology observed included Saturation Visible on Aerial Imagery (C9) and Geomorphic Position (D2). Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Boyer sandy loam (Appendix A, Figure 2a). The soils observed at the sample points were not consistent with the Boyer series characteristics. Field indicators of hydric soil were observed at sample point P-3 within the wetland including F6 –

Redox Dark Surface. However, soil disturbance likely has occurred, possibly related to construction of the adjacent wastewater containment pond.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a farmed wetland to an upland agricultural field; 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions; and 4) location of crop stress signatures from the off-site aerial imagery analysis in normal precipitation years consistent with observations made in the field. The transition from wetland to upland characteristics generally correlated with a subtle topographic break.

3.3 LAKE MILLS SITE DESCRIPTION

The Lake Mills Study Area is comprised of active agricultural fields, barns and other agricultural infrastructure, and two areas of wetland. The agricultural field was under soybean production the previous year. The Lake Mills Study Area is relatively flat, sloping gradually from topographic highs of approximately 874 feet mean sea level (msl) at the northeastern corner of the site to topographic lows in the southeast of approximately 846 feet msl. The Lake Mills Study Area is bordered by Daybreak Food Facilities' barns to the northeast; wetlands and a waterway, Stony Brook, to the northwest, west and south; and CTH O to the east.

Soils present within the Lake Mills Study Area and their hydric status are summarized in Table 1b. Wetlands identified during the field investigation are located primarily within areas mapped as hydric or partially hydric soils and wetland indicator soils (Appendix A, Figures 2b and 3b).

Table 3b. Summary of Soils Identified within the Lake Mills Study Area

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
DnB: Dodge silt loam, 2 to 6 percent slopes	Dodge	80-95	Drumlins	No
	St. Charles	3-10	Drumlins	No
	Mayville	2-7	Drumlins	No
	Lamartine	0-3	Drumlins	No
Os: Orion silt loam, wet	Orion variant-Wet	100	Depressions on stream terraces, flood plains on stream terraces	Yes
	Otter		Flood plains	Yes
	Wacousta		Drainageways	Yes
	Sable		Drainageways	Yes

SaA: Sable silty clay loam, 0 to 2 percent	Sable	85-100	Swales	Yes
	Muscatune	0-6	Ground moraines	No
	Ipava	0-7	Ground moraines	No
	Buckhart	0-4	Knolls	No
	Elburn	0-3	Outwash plains	No
VrB: Virgil silt loam, 1 to 4 percent slopes	Virgil	85-95	Drumlins	No
	St. Charles	2-7	Drumlins	No
	Sable	3-8	Interdrumlins	Yes

The WWI map identifies no wetland areas within the Lake Mills Study Area, but identifies multiple wetlands adjacent to the southern, eastern, and western boundaries, as well as wetland indicator soils in the southern and northwestern portions of the Lake Mills Study Area (Appendix A, Figure 4b). The field delineated wetlands (W-3 and W-4) are adjacent to wetland areas identified on the WWI map (Appendix A, Figure 5b).

Average precipitation for the Lake Mills investigation area was obtained from the Stoughton, WI WETS weather station and used for the WETS analysis. A total of 10.83 inches of precipitation occurred in the three-month time period prior to the field investigation in 2017 compared to the long-term average of 6.96 inches. Based on the WETS analysis, conditions were wetter than normal (Appendix D).

3.4 WETLANDS—LAKE MILLS

Two wetlands were identified and delineated within the Lake Mills Study Area. Wetland determination data forms were completed for eight sample points along transects through the wetlands and adjacent uplands and are contained in Appendix B. Photographs of the wetlands and adjacent lands are contained in Appendix C. The wetland boundary and sample point locations are shown on 5a (Appendix A). The wetlands are summarized in Table 2b below and described in detail in the following sections.

Table 4b. Summary of Wetlands Identified within the Lake Mills Study Area

Wetland	Wetland Type	Adjacent Surface Waters	Acreage (on-site)
Wetland 3 (W-3)	Farmed Wetland	Stony Brook	3.78 acres
Wetland 4 (W-4)	Farmed Wetland/Wet Meadow	Stony Brook	0.57 acres

3.4.1 Wetland 3

Wetland 3 (W-3) is a farmed wetland and wet meadow community adjacent to the southern boundary of the Study Area. The wetland appears to continue off-site to the south. W-3 is directly connected to a perennial stream identified in USGS and WDNR 24K hydrography as Stony Brook. (Appendix A, Figures 1b, 5b). Stony Brook flows south and eventually discharges into the Maunesha River.

Vegetation

Dominant plant species identified at sample point P-7 completed within W-3 consist of Cursed buttercup (*Ranunculus sceleratus,* OBL). The southern margin of the wetland is comprised of a riparian wooded wetland dominated by box elder (*Acer negundo,* FAC) and reed canary grass (*Phalaris arundinacea,* FACW). Other common species identified in the wetland are listed on the data forms contained in Appendix B. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally saturated hydroperiod. Secondary indicators of wetland hydrology observed included Surface Soil Cracks (B6), Saturation Visible on Aerial Imagery (C9), Stunted or Stressed Plants (D1), Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Virgil silt loam and Sable silty clay loam (Appendix A, Figure 2b). The soils observed at the sample points were generally consistent with the mapped soil series characteristics. Field indicators of hydric soil identified at sample points P7 and P11 consisted of NRCS field Indicators A11-Depleted Below Dark Surface and F6-Redox Dark surface. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a farmed wetland community dominated by cursed buttercup or with no vegetation present to a farmed upland agricultural field; 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions; and 4) location of crop stress signatures from the off-site aerial imagery analysis in normal precipitation years consistent with observations made in the field. The transition from wetland to upland characteristics generally correlated with a subtle topographic break.

3.4.2 Wetland 4

Wetland 4 (W-4) is a farmed wetland community adjacent to the northwestern boundary of the Study Area. The wetland appears to continue off-site to the north and west. W-4 is directly connected to Stony Brook, which is identified on the 24k hydro layer mapped by USGS (Appendix A, Figure 1b) and visible in the WDNR 24k hydrography layer (Appendix A, Figure 4b).

Vegetation

Dominant plant species identified at sample point P13 completed within W-4 consist of purslane (*Portulaca oleraea,* FACU), however the ground was mostly bare at the time of sampling, and vegetation was significantly disturbed due to cultivation. The central portion of the wetland is comprised of a wet meadow community dominated by reed canary grass and common reed (*Phragmites australis,* FACW). Other common species identified in the wetland are listed on the data forms contained in Appendix B. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally saturated hydroperiod. Secondary indicators of wetland hydrology observed included Saturation Visible on Aerial Imagery (C9) and Geomorphic Position (D2). Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Orion silt loam, wet (Appendix A, Figure 2b). The soils observed at sample point were somewhat consistent with the Orion or Palms series mapped in the vicinity, but with a sandy substratum. Field indicators of hydric soil identified at sample points P13 consisted of NRCS field Indicators A12-Thick Dark Surface and F1-Loamy Mucky Mineral. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a wet meadow/farmed wetland community dominated by reed canary grass and common reed to an upland farmed agricultural field dominated by healthy crop stubble; 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions; and 4) location of crop stress signatures from the off-site aerial imagery analysis in normal precipitation years consistent with observations made in the field. The transition from wetland to upland characteristics generally correlated with a gradual topographic break.

3.5 UPLANDS

Uplands within both portions of the Study Area consisted of actively tilled and cropped agricultural fields, which had stubble from the previous season, but little or no vegetation growing at the time of the field investigation in spring 2017. There was an overall lack of vegetative cover as the fields had not germinated as they were recently planted. Common species seen at sample points within upland portions of the Study Area included typical agricultural weeds such as purslane, dandelion (*Taraxacum officinale,* FACU), lambs quarters (*Chenopodium album,* FACU), and giant ragweed (*Ambrosia trifida,* FAC). Overall, the uplands were characterized by a lack of consistent wetness signatures in aerial imagery of normal to dry years, and the absence of indicators of hydric soils.

3.6 OTHER ENVIRONMENTAL CONSIDERATIONS

This report is limited to the identification of state and/or federally regulated wetlands and waterways within the Study Area. However, there may be other regulated environmental features within the Study Area, including, but not limited to, historical or archeological features, endangered or threatened species, navigable waters and/or floodplains, etc. Federal, state, and local units of government and regional planning organizations may have regulatory authority to control or restrict land uses within or in close proximity to these features. Stantec can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

Specifically, in the state of Wisconsin, Wis. Adm. Code NR 151.12 requires that a "protective area" or buffer be determined from the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands. In accordance with NR 151.12, the width of the "protective area" for less susceptible wetlands is determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. Moderately susceptible wetlands, lakes, and perennial and intermittent streams identified on USGS topographic maps or NRCS county soil survey maps (whichever is more current) require a protective buffer of 50 feet, and outstanding or exceptional resource waters, highly susceptible wetlands, and wetlands in areas of special natural resource interest require protective buffers of 75 feet. The wetlands identified within the Study Area are devoid of perennial vegetation due to annual cropping, or are dominated by invasive plant species, specifically reed canary grass and common reed. Therefore, based on the "protective buffer" standards provided by NR 151.12, it is Stantec's professional opinion that the wetland meets the criteria for less susceptible wetlands and the buffer from the wetland boundary would be 10 to 30 feet. However, the jurisdictional authority on wetland buffers rests with the WDNR. Local zoning authorities and/or a regional planning organization may have more restrictive buffers from wetlands than that imposed under NR 151.

4.0 CONCLUSION

Stantec performed a wetland determination and delineation of the Creekwood and Lake Mills sites on behalf of Daybreak Foods, Inc. The 43.61-acre Creekwood Study Area is located in Sections 27 and 28, Township 7 North, Range 13 East, Town of Lake Mills, Jefferson County, Wisconsin. The 29.04-acre Lake Mills Study Area is located in Section 12, Township 7 North, Range 12 East, Town of Deerfield, Dane County, Wisconsin. The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area.

Four wetlands were identified and delineated within the Study Area sites in accordance with state and federal guidelines and were subsequently flagged, surveyed with GPS, and mapped using GIS software. There were a combined total of 5.25 acres of wetlands within the Study Area sites. Wetlands were mostly composed of farmed wetland and wet meadow. Adjacent uplands were composed of agricultural lands.

The wetlands identified for this report may be subject to federal regulation under the jurisdiction of USACE, state regulation under the jurisdiction of the WDNR, and local regulation under jurisdiction of the local county, town, city, or village. Stantec recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review and concurrence.

Prior to beginning work at this site or disturbing or altering wetlands, waterways, or adjacent lands in any way, Stantec recommends that the owner obtain the necessary permits or other agency regulatory review and concurrence with regard to the proposed work to comply with applicable regulations. Stantec can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

The information provided by Stantec regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present within the Study Area at the time of the fieldwork. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the Study Area can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands within the Study Area.

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Appendix A – Figures

Figures 1a and 1b. Project Location and Topography

Figures 2a and 2b. NRCS Soil Survey Data – Hydric Ratings

Figure 3a and 3b. NRCS Soil Survey Data – Wetland Indicator Soils

Figure 4a and 4b. Wisconsin Wetland Inventory

Figure 5a and 5b. Field Collected Data

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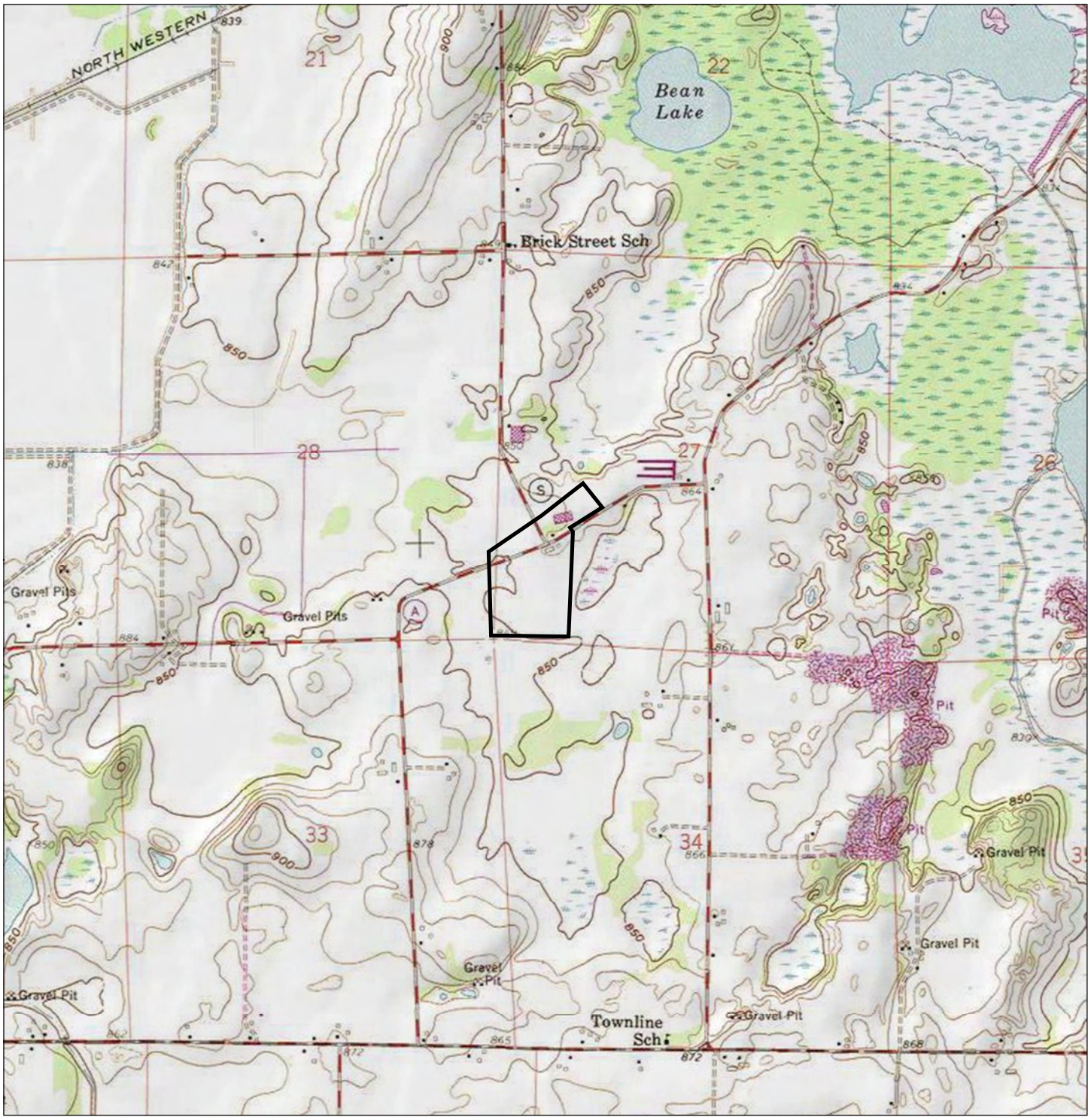

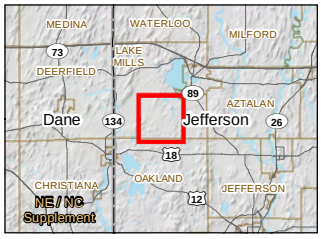

Notes

1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WisDOT, WDNR
3. Background: USGS 7.5' Topographic Quadrangles

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Legend

Approximate Project Boundary

Figure No.
1a

Title
Project Location and Topography

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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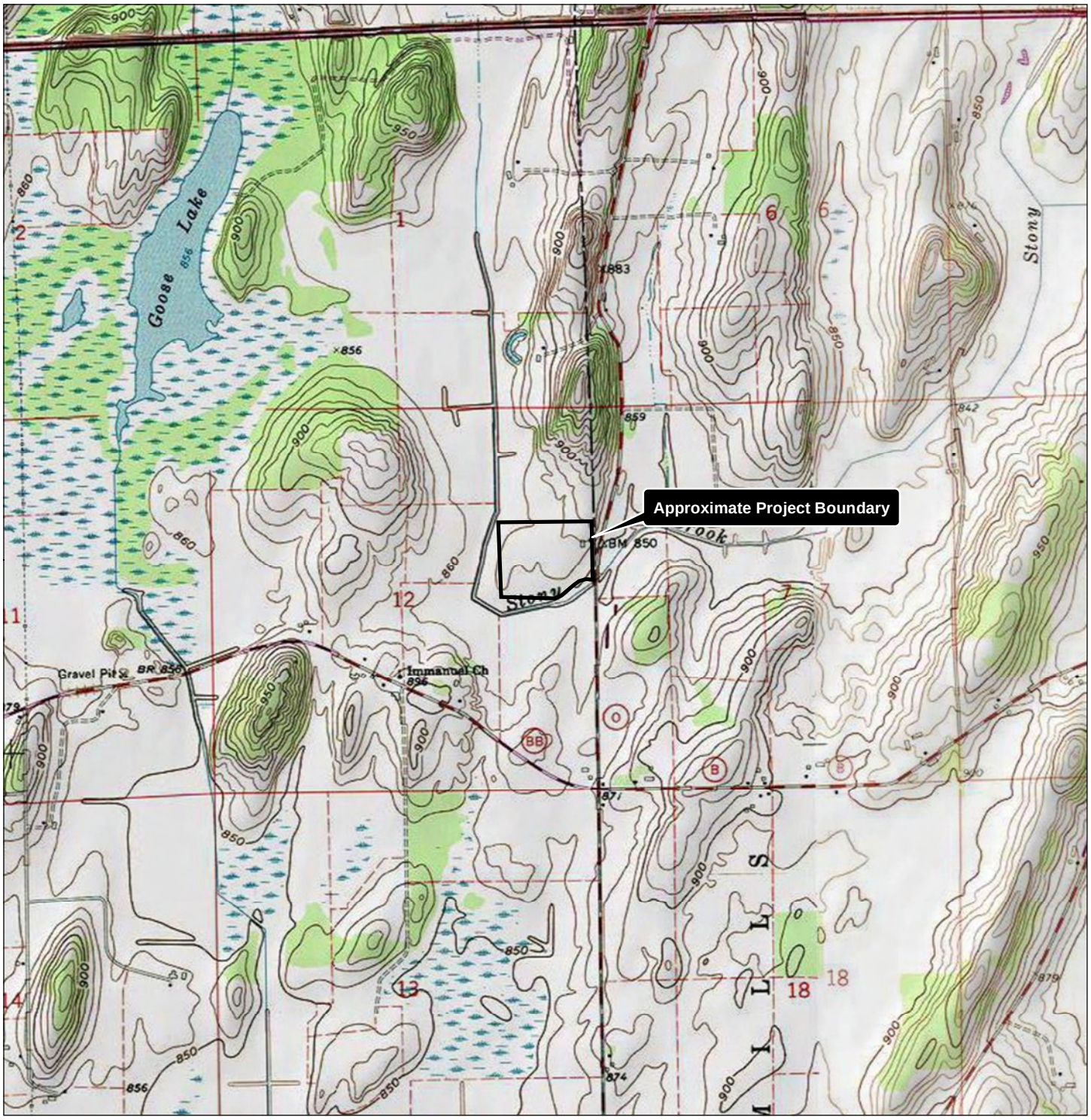

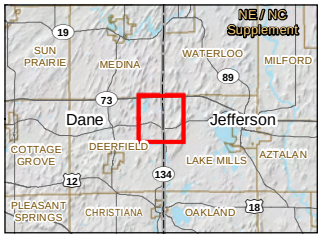

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2. Data Sources Include: Stantec, WisDOT, WDNR
3. Background: USGS 7.5' Topographic Quadrangles

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Legend

Approximate Project Boundary

Figure No.
1b

Title
Project Location and Topography

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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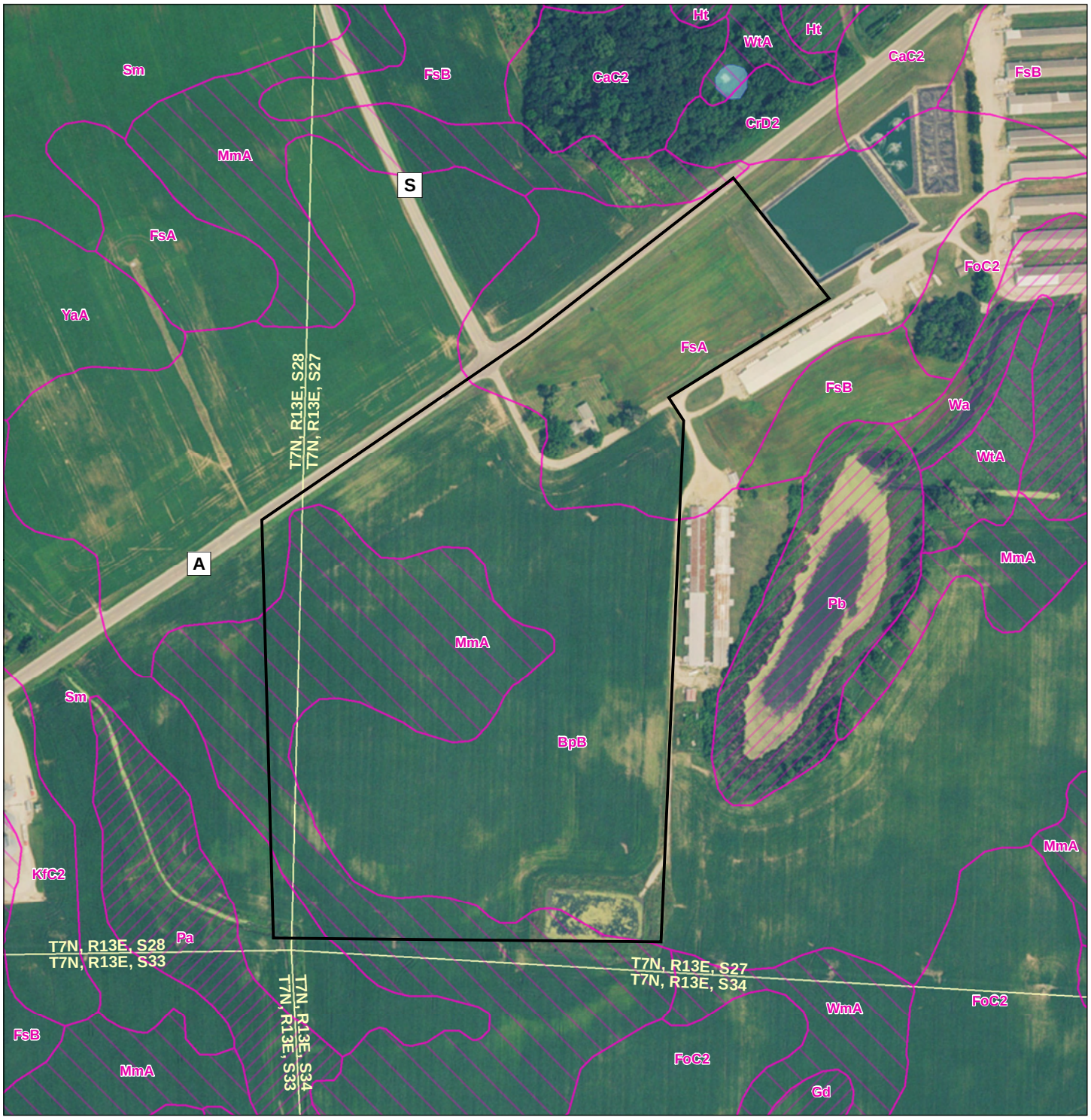

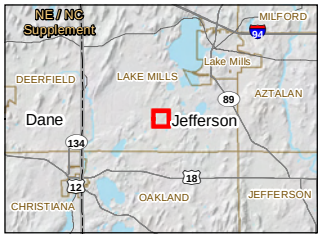

Notes
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2. Data Sources Include: Stantec, NRCS, WisDOT, WDNR
3. Orthophotography: NAIP 2015

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Legend

- Approximate Project Boundary
- NRCS Soil Survey Data
- Hydric Rating
  - Predominantly Hydric Soil
  - Partially Hydric Soil
  - Non-Hydric Soil
- DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

Figure No.
2a

Title
NRCS Soil Survey Data
Hydric Rating

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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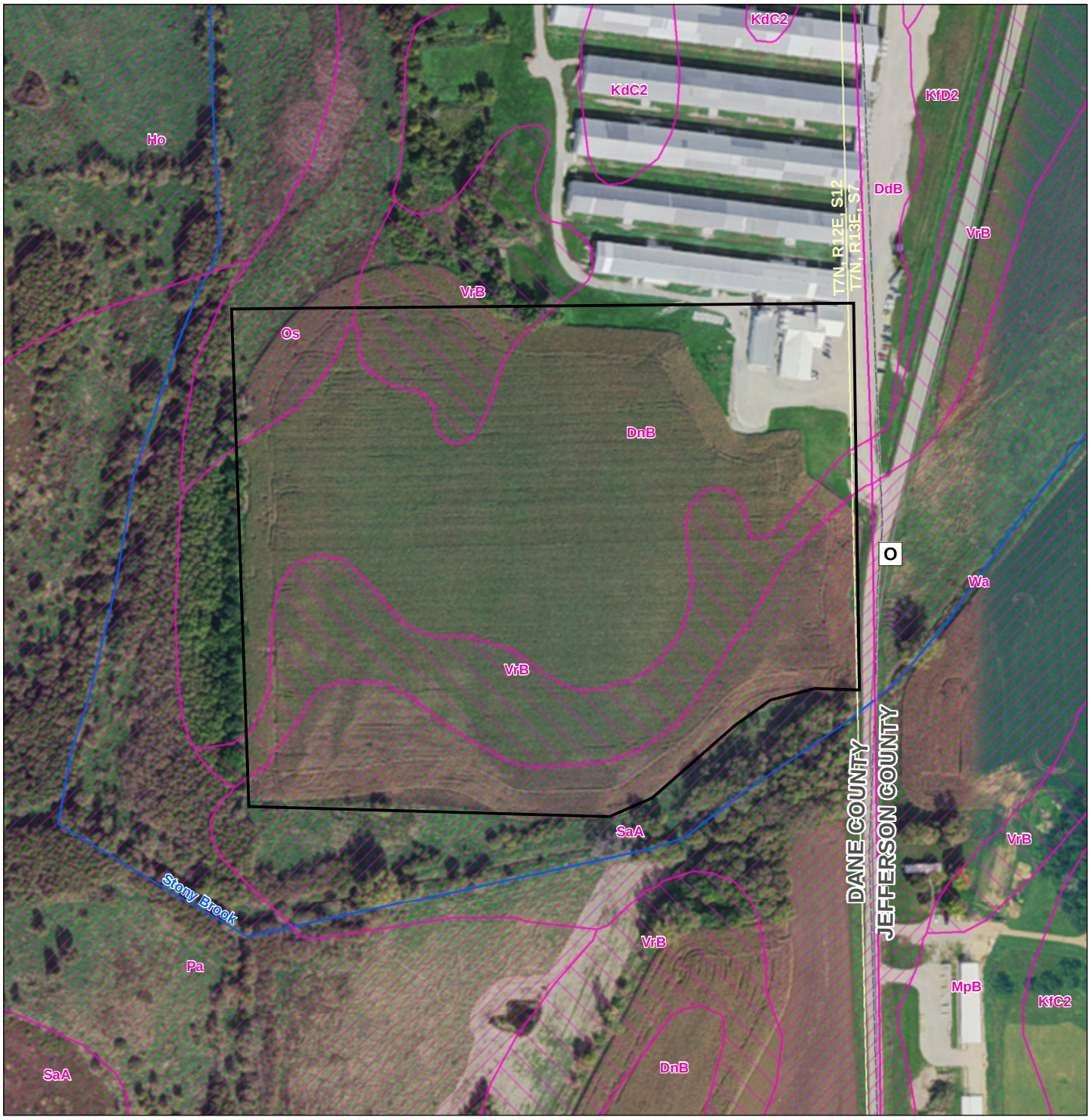

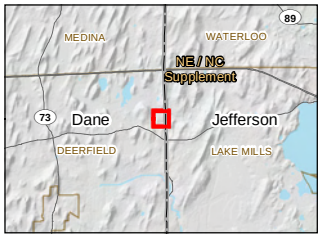

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2. Data Sources Include: Stantec, NRCS, WisDOT, WDNR
3. Orthophotography: NAIP 2015

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Legend

- Approximate Project Boundary
- NRCS Soil Survey Data
- Hydric Rating
  - Predominantly Hydric Soil
  - Partially Hydric Soil
  - Non-Hydric Soil
- DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

Figure No.
2b

Title
NRCS Soil Survey Data
Hydric Rating

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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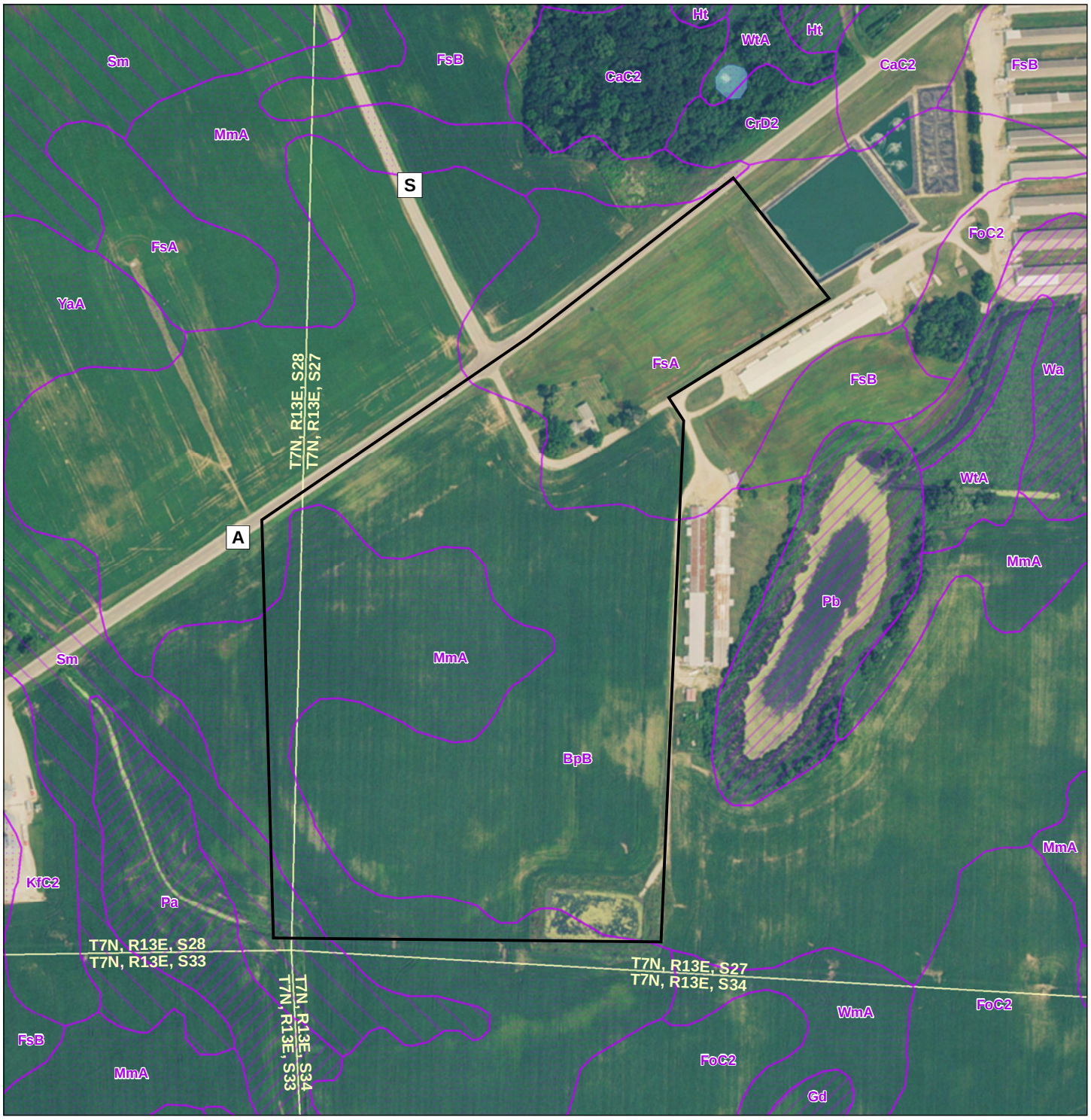

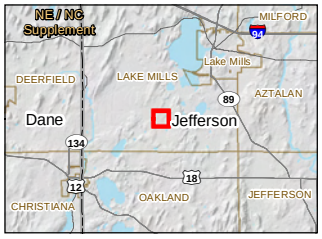

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1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, NRCS, WisDOT, WDNR
3. Orthophotography: NAIP 2015

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Legend

- Approximate Project Boundary
- NRCS Soil Survey Data
- Wetland Indicator Soil
  - Very Poorly Drained
  - Poorly Drained
  - Somewhat Poorly Drained
- DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

Figure No.
3a

Title
NRCS Soil Survey Data
Wetland Indicator Soil

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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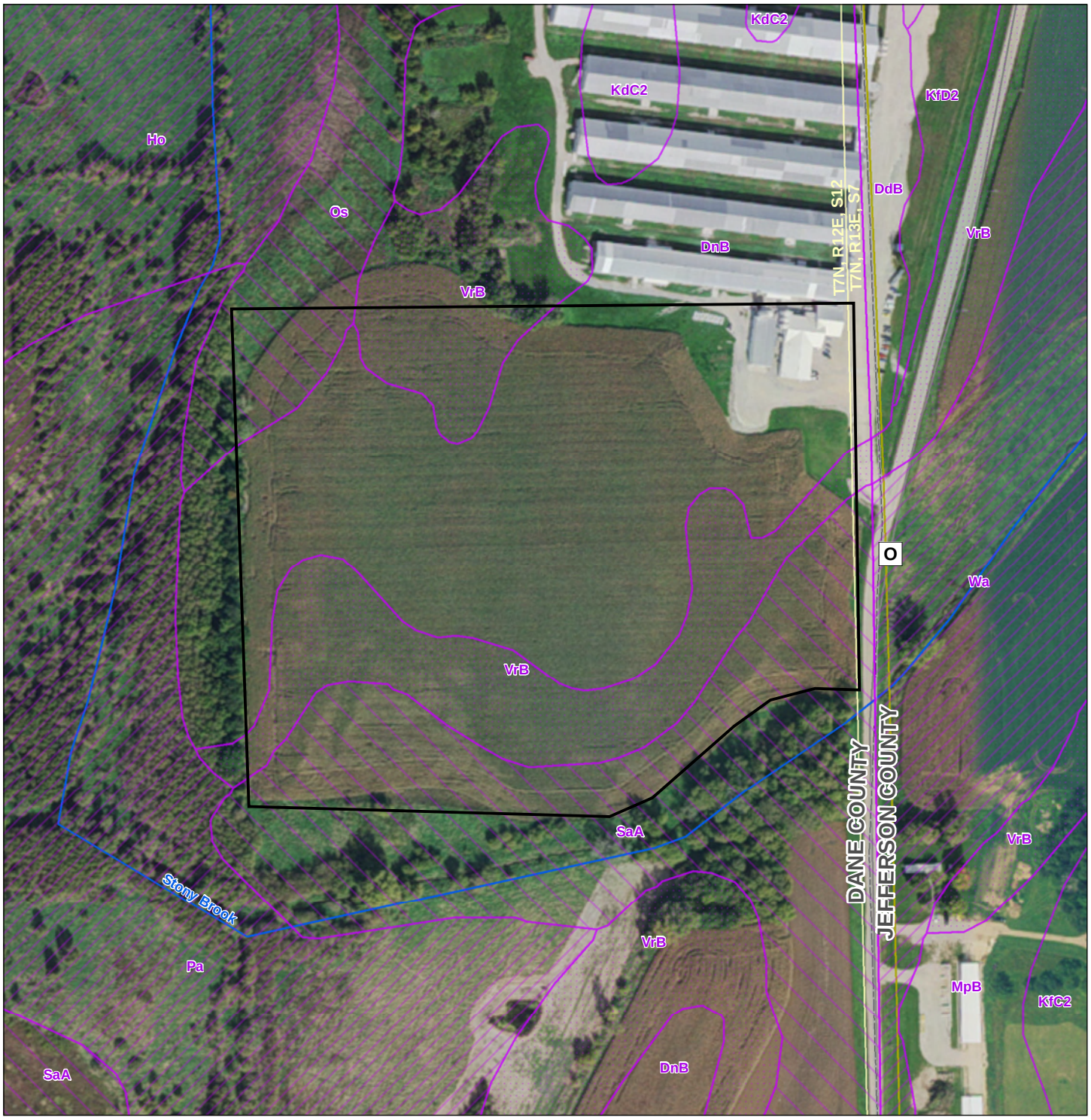

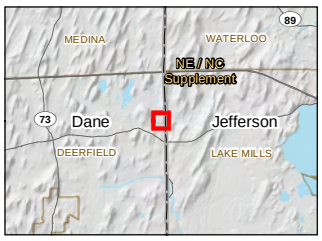

Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, NRCS, WisDOT, WDNR
3. Orthophotography: NAIP 2015

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Legend

- Approximate Project Boundary
- NRCS Soil Survey Data
- Wetland Indicator Soil
  - Very Poorly Drained
  - Poorly Drained
  - Somewhat Poorly Drained
- DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

Figure No.
3b

Title
NRCS Soil Survey Data
Wetland Indicator Soil

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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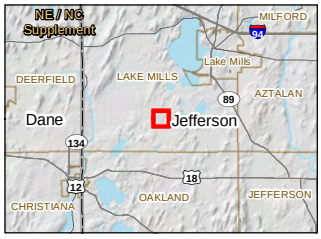

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Legend

- Approximate Project Boundary
- WWI Wetland Class Points
  - Wetland Too Small To Delineate
- WWI Wetland Class Areas
  - Wetland
- DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

Figure No.
4a

Title
Wisconsin Wetland Inventory

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by JM on 2017-06-13
Technical Review by JDP on 2017-06-13
Independent Review by KM on 2017-08-14

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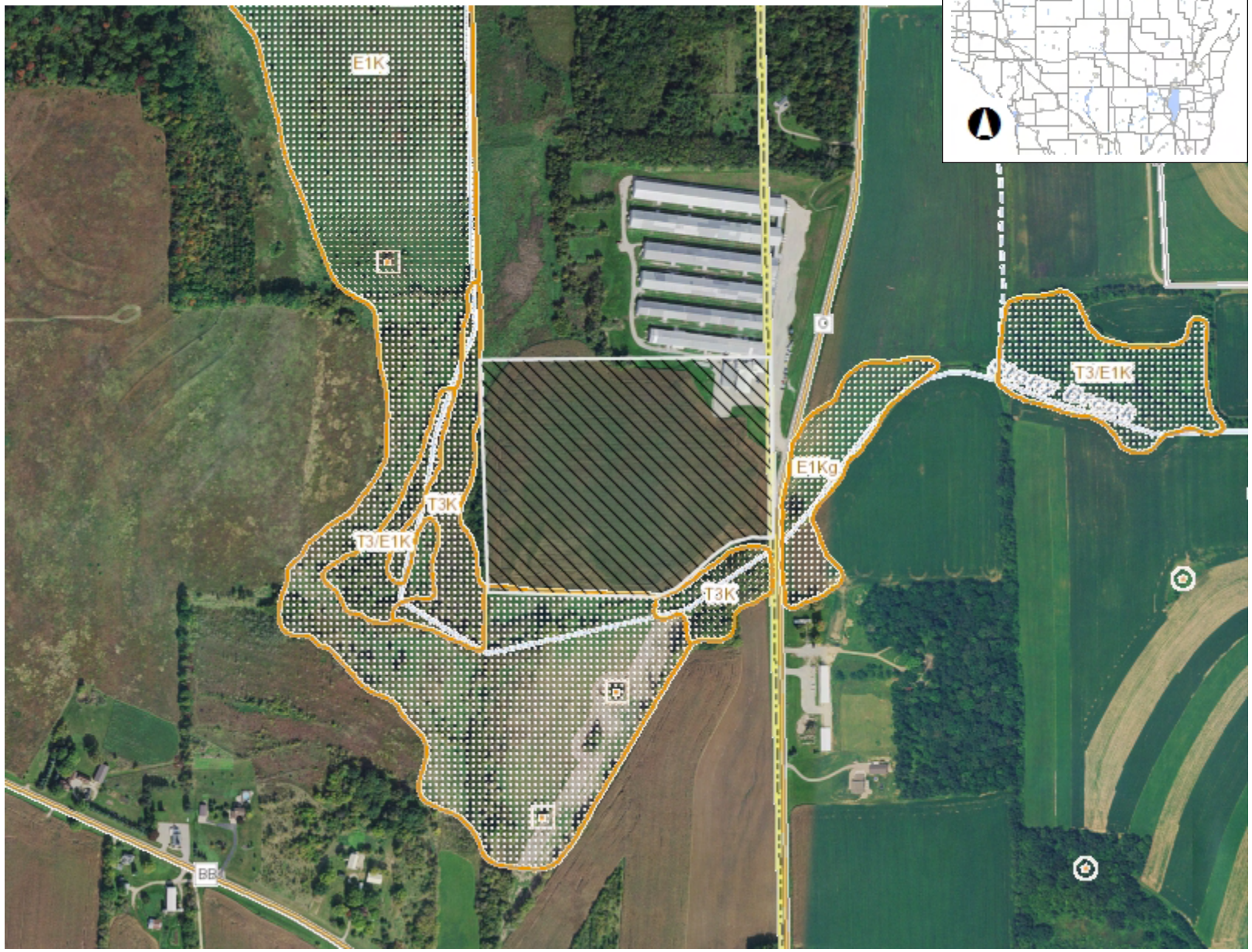
Figure 4b. Wisconsin Wetland Inventory



Legend

- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- 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

Notes

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 7,920

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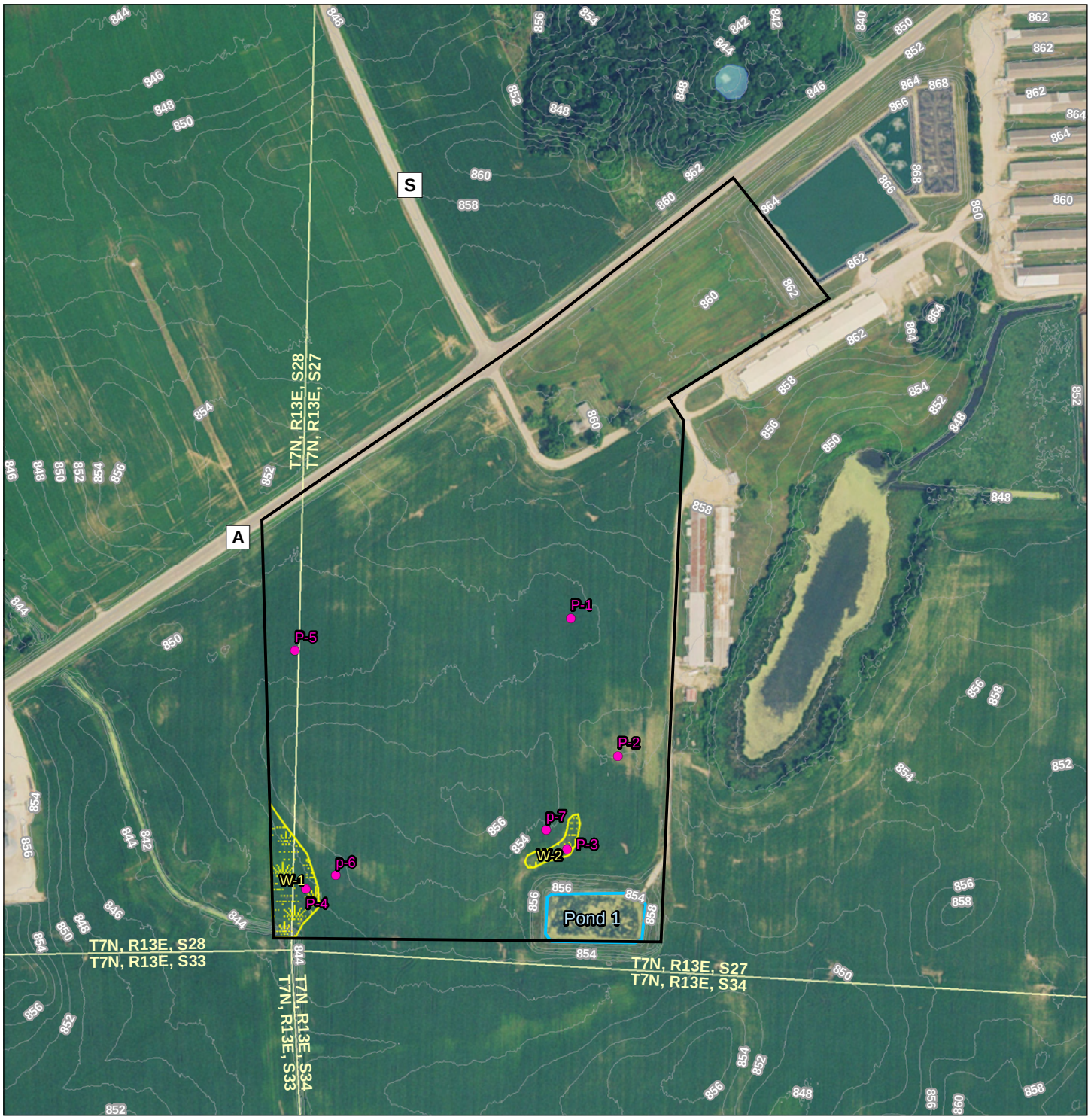

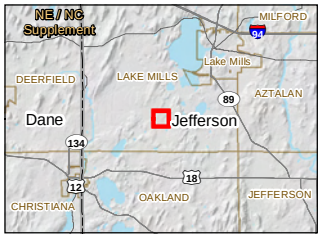

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Legend

- Approximate Project Boundary
- 2ft Elevation Contour
- Sample Point
- Field Delineated Wetland Area
- Pond

DNR 24k Hydrography
- Perennial Stream
- Intermittent Stream
- Waterbody

Figure No.
5a

Title
Field Collected Data

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by KM on 2017-08-14

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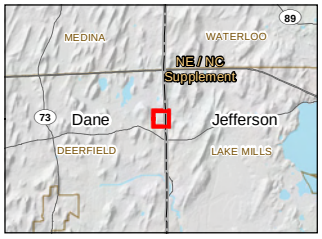

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Legend

- Approximate Project Boundary
- 2ft Elevation Contour
- Sample Point
- Field Delineated Wetland Area

DNR 24k Hydrography
- Perennial Stream
- Intermittent Stream
- Waterbody

Figure No.
5b

Title
Field Collected Data

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-18
Technical Review by JD on 2017-05-18
Independent Review by KM on 2017-08-14

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Appendix B – Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Boyer sandy loam	NWI/WWI Classification:	N/A
Landform:	'outwash plain	Local Relief:	Linear
Slope (%):	5%	Latitude: N/A	Longitude: N/A Datum: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	N/A
Sample Point:	P-1
Community ID:	Agricultural Field
Section:	27-28
Township:	7N
Range:	13E

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☐ Yes ☒ No
Hydric Soils Present? ☐ Yes ☒ No
Is This Sampling Point Within A Wetland? ☐ Yes ☒ No

Remarks: Climate/hydrologic conditions are wetter than normal according to the WETS analysis. Heavy rainfall prior to field visit, 0.4 inches within 24 hours.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☒ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present? ☐ Yes ☒ No Depth: (in.)
Water Table Present? ☐ Yes ☒ No Depth: (in.)
Saturation Present? ☐ Yes ☒ No Depth: (in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Slight depression but no evidence of recent ponding despite heavy rains evening prior to site visit. No evidence of consistent wetland signatures based on aerial imagery review.

SOILS

Map Unit Name: Boyer sandy loam Series Drainage Class: Well Drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	10	1	10YR	2/2	100	--	--	--	C	M	--
10	24	2	2.5YR	3/2	97	2.5YR	4/6	3	C	M	silt loam
24	28	3	2.5YR	4/4	100	--	--	--	C	M	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Creekwood | Wetland ID: N/A | Sample Point: P-1

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = ***N/A***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: No vegetation present, recently planted to corn. Corn stubble present from 2016. No evidence of 2016 crop damage.

Additional Remarks:

Stantec

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Boyer sandy loam	NWI/WWI Classification:	N/A
Landform:	--	Local Relief:	--
Slope (%):	N/A	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	N/A
Sample Point:	P-2
Community ID:	Agricultural Field
Section:	27-28
Township:	7N
Range:	13E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☐ Yes ☒ No
Hydric Soils Present? ☐ Yes ☒ No
Is This Sampling Point Within A Wetland? ☐ Yes ☒ No

Remarks: Climatic/hydrololic conditions are wetter than normal according to the WETS analysis. Sample point lies in high topographic position within an area historically filled with sandy material. Significant rainfall in last 24 hours (0.4").

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Aerial imagery review identified potential wetland signatures at this location, however after field evaluated, signatures reflect the disturbed sandy soil placed at this location.

SOILS

Map Unit Name: Boyer sandy loam — Series Drainage Class: Well Drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	10	1	10YR	4/4	90	--	--	--	C	M	loamy sand
--	--	--	10YR	4/3	10	--	--	--	C	M	loamy sand
10	20	2	10YR	4/6	100	--	--	--	C	M	loamy sand
20	28	3	10YR	4/3	100	--	--	--	C	M	loamy sand
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks: non-native soil, historically filled.

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Creekwood | Wetland ID: N/A | Sample Point: P-2

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = ***N/A***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: No vegetation, recently planted to corn. Evidence of corn planted in 2016, no indications of crop stress based on stubbles..

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Boyer sandy loam	NWI/WWI Classification:	N/A
Landform:	Depression	Local Relief:	Concave
Slope (%):	3%	Latitude: N/A	Longitude: N/A Datum: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	W-2
Sample Point:	P-3
Community ID:	Farmed Wetland
Section:	27-28
Township:	7N
Range:	13E

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No
Is This Sampling Point Within A Wetland? ☒ **Yes** ☐ **No**

Remarks: Climate/hydrologic conditions are wetter than normal according to the WETS analysis. Significant rainfall over 24 hours prior to fieldwork (0.4"). Pieces of broken clay drainage tile observed.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☒ A1 - Surface Water
- ☐ A2 - High Water Table
- ☒ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☒ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☒ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☒ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☒ Yes	☐ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☒ Yes	☐ No	Depth:	(in.)

Wetland Hydrology Present? ☒ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: FSA Aerials

Remarks: A review of FSA aerial photos indicates vegetation differences in this area indicative of wetland conditions. Ponding observed in depressions near sample point, in rutted areas. Some portions of wetland area planted around in 2017, likely due to wetness. Broken clay tile pieces observed near surface. Wetland hydrology may be result of earthwork completed historically documented at P-2 which extends near W-2, which may have damaged tile. Saturation and surface water observed was perched due to recent rainfall, no water table identified.

SOILS

Map Unit Name: Boyer sandy loam — Series Drainage Class: Well Drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	6	1	2.5Y	3/2	100	--	--	--	C	M	silty clay loam
6	12	2	2.5Y	3/2	95	2.5Y	4/4	5	C	M	silty clay loam
12	24	3	2.5Y	4/3	50	10YR	4/2	40	C	M	--
12	24	3	2.5Y	3/2	10	10YR	4/6	5	C	M	silty clay
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☒ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☒ Yes ☐ No

Remarks: Nearly depleted matrix, but dominant matrix color was 2.5Y 4/3. Presence of a depleted matrix was identified at additional locations (but not documented) within W-2, as the subsoil was somewhat variable throughout the somewhat poorly drained soil.

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Creekwood | Wetland ID: W-2 | Sample Point: P-3

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = ***N/A***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☒ Yes ☐ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: 2016 Corn stubble does not seem to represent crop stress. However, this area was planted around in 2017 presumably due to wetness.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Matherton silt loam	NWI/WWI Classification:	N/A
Landform:	Toeslope	Local Relief:	Linear
Slope (%):	2	Latitude: N/A	Longitude: N/A Datum: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	W-1
Sample Point:	P-4
Community ID:	Farmed Wetland
Section:	27-28
Township:	7N
Range:	13E

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No
Is This Sampling Point Within A Wetland? ☒ **Yes** ☐ **No**

Remarks: Climatic/hydrologic conditions are wetter than normal based on WETS, significant rainfall within 24 hours of fieldwork (0.4"). Natural gas line constructed through area, possibly damaging drain tile.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☒ A1 - Surface Water
- ☐ A2 - High Water Table
- ☒ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☒ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☒ C9 - Saturation Visible on Aerial Imagery
- ☒ D1 - Stunted or Stressed Plants
- ☒ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☒ Yes	☐ No	Depth:	(in.)
Water Table Present?	☒ Yes	☐ No	Depth: 25	(in.)
Saturation Present?	☒ Yes	☐ No	Depth: 0	(in.)

Wetland Hydrology Present? ☒ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: FSA aerials

Remarks: FSA aerials show consistent wetland signature in this area. Scattered ponding observed near sample point in microdepressions and ruts. Some crop stress observed from lack of corn stubble in 2016. Large portion of W-1 planted around in 2017 likely due to wetness.

SOILS

Map Unit Name: Matherton silt loam — Series Drainage Class: Somewhat poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	8	1	10YR	3/2	100	--		--	C	M	silt loam
8	15	2	10YR	2/1	95	10YR	4/6	5	C	M	silty clay loam
15	20	3	2.5Y	3/2	80	10YR	4/6	10	C	M	silty clay loam
15	20	3				10YR	5/2	10	C	M	
											silty clay loam
20	26	4	2.5Y	4/3	97	10YR	5/6	3	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☒ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks: Soils appear to have been disturbed, likely due to gas line construction. Hydric characteristics of soil throughout wetland area vary, from marginally non-hydric to marginally hydric. Sample point documented represents dominant condition. Some areas of wetland also exhibited depleted matrix.

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Creekwood | Wetland ID: W-1 | Sample Point: P-4

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = ***N/A***

Hydrophytic Vegetation Indicators:

- [ ] Yes [x] No Rapid Test for Hydrophytic Vegetation
- [ ] Yes [x] No Dominance Test is > 50%
- [ ] Yes [x] No Prevalence Index is ≤ 3.0 *
- [ ] Yes [x] No Morphological Adaptations (Explain) *
- [x] Yes [ ] No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [x] Yes [ ] No

Remarks: Much of W-1 area was not planted this spring. Also, appears to have some amount of crop stress in 2016 based on low density of corn stubble. Some stubble of barnyard grass from 2016 also observed.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Matherton silt loam	NWI/WWI Classification:	N/A
Landform:	Footslope	Local Relief:	Linear
Slope (%):	5	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	Upland
Sample Point:	P-5
Community ID:	Agricultural Field
Section:	27-28
Township:	7N
Range:	13E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☒ No	Hydric Soils Present?	☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes ☒ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☒ **No**

Remarks: Climate/hydrololic conditions are wetter than normal, significant rainfall within 24 hours of fieldwork (0.4").

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: No indicators of hydrology despite heavy rainfall. Area recently planted. No evidence of crop stress or wetland signatures on aerial imagery analysis. Area is likely draintiled based on observations on other portions of site and proximatey to drainage ditch.

SOILS

Map Unit Name: Matherton silt loam — Series Drainage Class: Somewhat poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	14	1	2.5Y	3/2	100	--	--	--	C	M	silt loam
14	24	2	10YR	4/2	94	10YR	4/6	6	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Creekwood | Wetland ID: Upland | Sample Point: P-5

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = ***N/A***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Recently planted. No evidence of crop stress in 2016 based on corn stubble remains.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Matherton silt loam	NWI/WWI Classification:	N/A
Landform:	Footslope	Local Relief:	Linear
Slope (%):	5	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	Upland
Sample Point:	P-6
Community ID:	Agricultural Field
Section:	27-28
Township:	7N
Range:	13E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☒ No	Hydric Soils Present?	☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes ☒ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☒ **No**

Remarks: Climate/hydrololic conditions are wetter than normal, significant rainfall within 24 hours of fieldwork (0.4").

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: No indicators of hydrology despite heavy rainfall. Area recently planted. No evidence of crop stress or wetland signatures on aerial imagery analysis. Area is likely draintiled based on observations on other portions of site and proximatey to drainage ditch.

SOILS

Map Unit Name: Matherton silt loam — Series Drainage Class: Somewhat poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	14	1	2.5Y	3/2	100	--	--	--	C	M	silt loam
14	24	2	10YR	4/3	70	10YR	4/6	5	C	M	silty clay loam
--	--	--	--	--	--	10YR	4/2	25	C	M	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Creekwood | Wetland ID: Upland | Sample Point: P-6

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = ***N/A***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Recently planted. No evidence of crop stress in 2016 based on corn stubble remains.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Creekwood	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Boyer sandy loam	NWI/WWI Classification:	N/A
Landform:	Footslope	Local Relief:	Linear
Slope (%):	5	Latitude: N/A	Longitude: N/A Datum: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

Date:	05/16/17
County:	Jefferson
State:	Wisconsin
Wetland ID:	Upland
Sample Point:	P-7
Community ID:	Agricultural Field
Section:	27-28
Township:	7N
Range:	13E

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☒ No	Hydric Soils Present?	☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes ☒ No	Is This Sampling Point Within A Wetland?	☐ Yes ☒ No

Remarks: Climate/hydrololic conditions are wetter than normal, significant rainfall within 24 hours of fieldwork (0.4").

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes ☒ No	Depth:	(in.)
Water Table Present?	☐ Yes ☒ No	Depth:	(in.)
Saturation Present?	☐ Yes ☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: No indicators of hydrology despite heavy rainfall. Area recently planted. No evidence of crop stress or wetland signatures on aerial imagery analysis. Area is likely draintiled based on observations on other portions of site and proximatey to drainage ditch.

SOILS

Map Unit Name: Boyer sandy loam — Series Drainage Class: Somewhat poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	15	1	2.5Y	3/2	100	--	--	--	C	M	silt loam
15	24	2	10YR	4/3	98	10YR	4/6	2	C	M	silt loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Creekwood | Wetland ID: Upland | Sample Point: P-7

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	0		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: *N/A* (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	0 (A)		0 (B)

Prevalence Index = B/A = *N/A*

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Recently planted. No evidence of crop stress in 2016 based on corn stubble remains.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Sable silty clay loam	NWI/WWI Classification:	N/A
Landform:	Shoulder	Local Relief:	Linear
Slope (%):	5	Latitude: N/A	Longitude: N/A Datum: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	
Sample Point:	P-8
Community ID:	Agricultural field
Section:	12
Township:	7N
Range:	12E

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☐ Yes ☒ No
Hydric Soils Present? ☒ Yes ☐ No
Is This Sampling Point Within A Wetland? ☐ Yes ☒ No

Remarks: Climatic/hydrololic conditions are wetter than normal. 0.4" of rainfall within 24 hrs prior to fieldwork.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Culvert northeast of sample point P-8 under entrance drive contributes to surface drainage of area.

SOILS

Map Unit Name: Sable silty clay loam — Series Drainage Class: Poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	15	1	10YR	2/1	100	--	--	--	C	M	silty clay loam
15	18	2	10YR	3/1	97	10YR	4/6	3	C	M	silty clay
18	24	3	10YR	4/1	95	10YR	4/6	5	C	M	silty clay
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐)
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☒ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Lake Mills | Wetland ID: 0 | Sample Point: P-8

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Ranunculus repens*	5	N	FAC
2.	*Purslane oleracea*	5	N	FACU
3.	*Chenopodium album*	10	Y	FACU
4.	*Taraxacum officinale*	5	N	FACU
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	25		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	5	x 3 =	15
FACU spp.	20	x 4 =	80
UPL spp.	0	x 5 =	0
Total	25 (A)		95 (B)

Prevalence Index = B/A = ***3.800***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Ag field not yet planted.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Lake Mills	Stantec Project #:	193705272	Date:	05/16/17
Applicant:	Daybreak Foods			County:	Dane
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A	State:	Wisconsin
Soil Unit:	Sable silty clay loam	NWI/WWI Classification:	N/A	Wetland ID:	W-3
Landform:	Floodplain	Local Relief:	Concave	Sample Point:	P-9
Slope (%):	0	Latitude: N/A	Longitude: N/A	Community ID:	Farmed Wetland
			Datum: N/A	Section:	12
				Township:	7N
				Range:	12E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☐ No

Are Vegetation [X], Soil [ ], or Hydrology [ ] significantly disturbed?
Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic?

Are normal circumstances present? ☐ Yes [X] No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	[X] Yes ☐ No	Hydric Soils Present?	[X] Yes ☐ No
Wetland Hydrology Present?	[X] Yes ☐ No	Is This Sampling Point Within A Wetland?	[X] Yes ☐ No

Remarks: Climatic/hydrologic conditions are wetter than normal.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- [X] B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- [X] C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- [X] D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	[X] No	Depth:		(in.)
Water Table Present?	[X] Yes	☐ No	Depth:	24	(in.)
Saturation Present?	[X] Yes	☐ No	Depth:	20	(in.)

Wetland Hydrology Present? [X] Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Consistent wetland signature based on aerial imagery review.

SOILS

Map Unit Name: Sable silty clay loam — Series Drainage Class: Poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	5	1	10YR	3/2	100	--	--	--	C	M	silty clay loam
5	15	2	10YR	3/2	90	10YR	4/6	5	C	M	silty clay loam
5	15	2	10YR	2/1	5	--	--	--	C	M	silty clay loam
15	28	3	N	2.5/1	100	--	--	--	C	M	muck
28	30	4	10YR	4/2	100	--	--	--	C	M	loamy sand
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- [X] F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? [X] Yes ☐ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Lake Mills | Wetland ID: W-3 | Sample Point: P-9

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Ranunculus acris*	35	Y	FAC
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	35		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	35	x 3 =	105
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total	35 (A)		105 (B)

Prevalence Index = B/A = ***3.00***

Hydrophytic Vegetation Indicators:

- [x] Yes [ ] No Rapid Test for Hydrophytic Vegetation
- [x] Yes [ ] No Dominance Test is > 50%
- [x] Yes [ ] No Prevalence Index is ≤ 3.0 *
- [ ] Yes [x] No Morphological Adaptations (Explain) *
- [ ] Yes [x] No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [x] Yes [ ] No

Remarks: Planted to soybean in 2016. Does not appear to be crop stress based on stubble.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Sable silty clay loam	NWI/WWI Classification:	N/A
Landform:	--	Local Relief:	--
Slope (%):	N/A	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	W-4
Sample Point:	P-10
Community ID:	Riparian Wooded Wetl
Section:	12
Township:	7N
Range:	12E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☒ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Hydric Soils Present?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No	Is This Sampling Point Within A Wetland?	☒ **Yes** ☐ **No**

Remarks: Climatic/hydrololic conditions are wetter than normal.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☒ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☒ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☒ Yes	☐ No	Depth: 18	(in.)
Water Table Present?	☒ Yes	☐ No	Depth: 21	(in.)
Saturation Present?	☐ Yes	☐ No	Depth:	(in.)

Wetland Hydrology Present? ☒ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks:

SOILS

Map Unit Name: Sable silty clay loam — Series Drainage Class: Poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	6	1	10YR	3/2	100	--	--	--	--	--	silty clay loam
6	12	2	10YR	3/2	95	10YR	4/6	5	C	M	silty clay loam
12	20	3	10YR	4/2	92	10YR	5/6	8	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☒ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☒ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☒ Yes ☐ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Lake Mills | Wetland ID: W-4 | Sample Point: P-10

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	*Acer negundo*	50	Y	FAC
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	50		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	*Acer negundo*	2	N	FAC
2.	*Rubus occidentalis*	2	N	FAC
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	4		

Herb Stratum (Plot size: 2 meter radius)

1.	*Phalaris arundinacea*	50	Y	FACW
2.	*Impatiens capensis*	30	Y	FACW
3.	*Urtica dioica*	10	N	FAC
4.	*Arctium minus*	5	N	FACU
5.	*Alliaria petiolata*	2	N	FACU
6	*Leonurus cardiaca*	1	N	FAC
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	98		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***100%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	80	x 2 =	160
FAC spp.	65	x 3 =	195
FACU spp.	7	x 4 =	28
UPL spp.	0	x 5 =	0
Total	152 (A)		383 (B)

Prevalence Index = B/A = ***2.520***

Hydrophytic Vegetation Indicators:

- [x] Yes [ ] No Rapid Test for Hydrophytic Vegetation
- [x] Yes [ ] No Dominance Test is > 50%
- [x] Yes [ ] No Prevalence Index is ≤ 3.0 *
- [ ] Yes [x] No Morphological Adaptations (Explain) *
- [ ] Yes [x] No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [x] Yes [ ] No

Remarks:

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Sable silty clay loam	NWI/WWI Classification:	N/A
Landform:	Footslope	Local Relief:	Linear
Slope (%):	7	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	W-3
Sample Point:	P-11
Community ID:	Upland Agricultural fiel
Section:	12
Township:	7N
Range:	12E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☒ No	Hydric Soils Present?	☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes ☒ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☒ **No**

Remarks: Climatic/hydrololic conditions are wetter than normal.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: no consistent wetland signatures based on aerial imagery review.

SOILS

Map Unit Name: Sable silty clay loam — Series Drainage Class: Poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	15	1	10YR	3/2	80	--	--	--	C	M	silt loam
--	--	--	10YR	2/1	20	--	--	--	C	M	silt loam
15	24	2	10YR	4/2	95	10YR	4/4	5	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Lake Mills | Wetland ID: W-3 | Sample Point: P-11

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Ranunculus acris*	1	Y	FAC
2.	*Acer negundo*	1	Y	FAC
3.	*Chenopodium album*	1	Y	FACU
4.	*Purslane oleracea*	1	Y	FACU
5.	*Taraxacum officinale*	1	Y	FACU
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	5		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***40%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	2	x 3 =	6
FACU spp.	3	x 4 =	12
UPL spp.	0	x 5 =	0
Total	5 (A)		18 (B)

Prevalence Index = B/A = ***3.600***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Plot not yet planted this year. Last planted to soybeans in 2016. No crop stress based on stubbles.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Virgil silt loam	NWI/WWI Classification:	N/A
Landform:	--	Local Relief:	--
Slope (%):	3-5%	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	W-3
Sample Point:	P-12
Community ID:	Upland Agricultural fiel
Section:	12
Township:	7N
Range:	12E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☒ No	Hydric Soils Present?	☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes ☒ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☒ **No**

Remarks: Climatic/hydrololic conditions are wetter than normal.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: no consistent wetland signatures based on aerial imagery review.

SOILS

Map Unit Name: Virgil silt loam — Series Drainage Class: Somewhat poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	14	1	10YR	3/2	95	--	--	--	C	M	silty clay loam
--	--	--	10YR	2/1	5	--	--	--	C	M	silty clay loam
14	24	2	10YR	4/2	92	10YR	4/6	8	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Lake Mills | Wetland ID: W-3 | Sample Point: P-12

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Portulaca oleracea*	3	Y	FACU
2.	*Chenopodium album*	1	N	FACU
3.	*Acer negundo*	1	N	FAC
4.	*Taraxacum officinale*	1	N	FACU
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	6		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	1	x 3 =	3
FACU spp.	5	x 4 =	20
UPL spp.	0	x 5 =	0
Total	6 (A)		23 (B)

Prevalence Index = B/A = ***3.833***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Not planted yet this year. No sign of crop stress last year. Last year was planted to soybeans.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Virgil silt loam	NWI/WWI Classification:	N/A
Landform:	Footslope	Local Relief:	Linear
Slope (%):	3	Latitude: N/A	Longitude: N/A Datum: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	W-3
Sample Point:	P-13
Community ID:	Farmed Wet
Section:	12
Township:	7N
Range:	12E

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No
Is This Sampling Point Within A Wetland? ☒ Yes ☐ No

Remarks: Climatic/hydrololic conditions are wetter than normal.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☒ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☒ C9 - Saturation Visible on Aerial Imagery
- ☒ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☒ Yes	☐ No	Depth: 22	(in.)
Saturation Present?	☒ Yes	☐ No	Depth: 16	(in.)

Wetland Hydrology Present? ☒ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: consistent wetland signatures observed on aerial imagery review. Crop stress or lack of crop apparent based on stubble from 2016 soybean crop. Some ponding noted in microdepressions and within ruts.

SOILS

Map Unit Name: Virgil silt loam — Series Drainage Class: Somewhat poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	8	1	10YR	3/2	98	--	--	--	C	M	silt loam
0	8	1	10YR	2/1	2	--	--	--	C	M	silt loam
8	11	2	10YR	3/1	100	10YR	4/4	5	C	M	silty clay loam
11	22	3	10YR	4/2	88	10YR	5/6	12	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☒ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☒ Yes ☐ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Lake Mills | Wetland ID: W-3 | Sample Point: P-13

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Portulaca oleracea*	2	N	FACU
2.	*Acer negundo*	1	N	FAC
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	3		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***N/A*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	1	x 3 =	3
FACU spp.	2	x 4 =	8
UPL spp.	0	x 5 =	0
Total	3 (A)		11 (B)

Prevalence Index = B/A = ***3.667***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: Minimal vegetation cover present: unplanted crop field.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Day Breaks Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Day Breaks Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Orion Silt Loam	NWI/WWI Classification:	N/A
Landform:	Footslope	Local Relief:	Linear
Slope (%):	5%	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	W-4
Sample Point:	P-14
Community ID:	Upland Agricultural fiel
Section:	12
Township:	7N
Range:	12E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☐ Yes ☒ No	Hydric Soils Present?	☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes ☒ No	Is This Sampling Point Within A Wetland?	☐ **Yes** ☒ **No**

Remarks: Climatic/hydrololic conditions are wetter than normal. Sample point located about 8' above wetland elevation.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☒):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☐ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☐ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☐ Yes	☒ No	Depth:	(in.)
Saturation Present?	☐ Yes	☒ No	Depth:	(in.)

Wetland Hydrology Present? ☐ Yes ☒ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks:

SOILS

Map Unit Name: Orion Silt Loam — Series Drainage Class: Poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	15	1	10YR	3/3	100	--	--	--	C	M	silt loam
15	17	2	10YR	3/2	100	--	--	--	C	M	silty clay loam
17	22	3	10YR	4/3	85	10YR	4/2	10	C	M	silty clay loam
--	--	--	--	--	--	10YR	4/6	5	C	M	silty clay loam
22	24	4	10YR	4/2	92	10YR	4/6	8	C	M	silty clay loam
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☒):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☐ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☐ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☐ Yes ☒ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Day Breaks Foods - Lake Mills | Wetland ID: W-4 | Sample Point: P-14

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Portulaca oleracea*	10	Y	FACU
2.	*Acer negundo*	2	N	FAC
3.	*Alliaria petiolata*	1	N	FACU
4.	*Taraxacum officinale*	1	N	FACU
5.	--	--	--	--
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	14		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	2	x 3 =	6
FACU spp.	12	x 4 =	48
UPL spp.	0	x 5 =	0
Total	14 (A)		54 (B)

Prevalence Index = B/A = ***3.857***

Hydrophytic Vegetation Indicators:

- ☐ Yes ☒ No Rapid Test for Hydrophytic Vegetation
- ☐ Yes ☒ No Dominance Test is > 50%
- ☐ Yes ☒ No Prevalence Index is ≤ 3.0 *
- ☐ Yes ☒ No Morphological Adaptations (Explain) *
- ☐ Yes ☒ No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present ☐ Yes ☒ No

Remarks: not yet planted ag field. No crop stress observed based on 2016 soybean stubble remains.

Additional Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site:	Daybreak Foods - Lake Mills	Stantec Project #:	193705272
Applicant:	Daybreak Foods		
Investigator #1:	Jeff Kraemer	Investigator #2:	N/A
Soil Unit:	Orion silt loam	NWI/WWI Classification:	N/A
Landform:	Stream terrace	Local Relief:	Concave
Slope (%):	0	Latitude: N/A	Longitude: N/A Datum: N/A

Date:	05/16/17
County:	Dane
State:	Wisconsin
Wetland ID:	W-4
Sample Point:	P-15
Community ID:	Farmed wetland
Section:	12
Township:	7N
Range:	12E

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☐ Yes ☒ No

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Are normal circumstances present? ☐ Yes ☒ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Hydric Soils Present?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No	Is This Sampling Point Within A Wetland?	☒ **Yes** ☐ **No**

Remarks: Climatic/hydrologic conditions are wetter than normal. Farmed wetland at edge of wet meadow.

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present ☐):

Primary:
- ☐ A1 - Surface Water
- ☐ A2 - High Water Table
- ☐ A3 - Saturation
- ☐ B1 - Water Marks
- ☐ B2 - Sediment Deposits
- ☐ B3 - Drift Deposits
- ☐ B4 - Algal Mat or Crust
- ☐ B5 - Iron Deposits
- ☐ B7 - Inundation Visible on Aerial Imagery
- ☐ B8 - Sparsely Vegetated Concave Surface
- ☐ B9 - Water-Stained Leaves
- ☐ B13 - Aquatic Fauna
- ☐ B15 - Marl Deposits
- ☐ C1 - Hydrogen Sulfide Odor
- ☐ C3 - Oxidized Rhizospheres on Living Roots
- ☐ C4 - Presence of Reduced Iron
- ☐ C6 - Recent Iron Reduction in Tilled Soils
- ☐ C7 - Thin Muck Surface
- ☐ Other (Explain in Remarks)

Secondary:
- ☐ B6 - Surface Soil Cracks
- ☐ B10 - Drainage Patterns
- ☐ B16 - Moss Trim Lines
- ☐ C2 - Dry-Season Water Table
- ☐ C8 - Crayfish Burrows
- ☒ C9 - Saturation Visible on Aerial Imagery
- ☐ D1 - Stunted or Stressed Plants
- ☒ D2 - Geomorphic Position
- ☐ D3 - Shallow Aquitard
- ☐ D4 - Microtopographic Relief
- ☐ D5 - FAC-Neutral Test

Field Observations:

Surface Water Present?	☐ Yes	☒ No	Depth:	(in.)
Water Table Present?	☒ Yes	☐ No	Depth: 17	(in.)
Saturation Present?	☒ Yes	☐ No	Depth: 14	(in.)

Wetland Hydrology Present? ☒ Yes ☐ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: saturation obs. In FSA aerial imagery

Remarks: Consistent wetland signatures observed on aerial imagery review.

SOILS

Map Unit Name: Orion silt loam — Series Drainage Class: Poorly drained

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Top Depth	Bottom Depth	Horizon	Matrix Color (Moist)		Matrix %	Redox Features Color (Moist)		Redox %	Type	Location	Texture (e.g. clay, sand, loam)
0	16	1	N	2.5/0	100	--	--	--	C	M	mucky silty loam
16	24	2	10YR	4/2	95	10YR	4/4	5	C	M	loamy sand
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--

NRCS Hydric Soil Field Indicators (check here if indicators are not present ☐):
- ☐ A1- Histosol
- ☐ A2 - Histic Epipedon
- ☐ A3 - Black Histic
- ☐ A4 - Hydrogen Sulfide
- ☐ A5 - Stratified Layers
- ☐ A11 - Depleted Below Dark Surface
- ☒ A12 - Thick Dark Surface
- ☐ S1 - Sandy Muck Mineral
- ☐ S4 - Sandy Gleyed Matrix
- ☐ S5 - Sandy Redox
- ☐ S6 - Stripped Matrix
- ☐ S7 - Dark Surface (LRR R, MLRA 149B)
- ☐ S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
- ☐ S9 - Thin Dark Surface (LRR R, MLRA 149B)
- ☐ S11 - High Chroma Sands
- ☒ F1 - Loamy Mucky Mineral (LRR K, L)
- ☐ F2 - Loamy Gleyed Matrix
- ☐ F3 - Depleted Matrix
- ☐ F6 - Redox Dark Surface
- ☐ F7 - Depleted Dark Surface
- ☐ F8 - Redox Depressions

Indicators for Problematic Soils [1]
- ☐ A10 - 2 cm Muck (LRR K, L, MLRA 149B)
- ☐ A16 - Coast Prairie Redox (LRR K, L, R)
- ☐ S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
- ☐ S7 - Dark Surface (LRR K, L, M)
- ☐ S8 - Polyvalue Below Surface (LRR K, L)
- ☐ S9 - Thin Dark Surface (LRR K, L)
- ☐ F12 - Iron-Manganese Masses (LRR K, L, R)
- ☐ F19 - Piedmont Floodplain Soils (MLRA 149B)
- ☐ F21 - Red Parent Material
- ☐ TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
- ☐ TF12 - Very Shallow Dark Surface
- ☐ Other (Explain in Remarks)

[1] Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If Observed) Type: N/A Depth: N/A

Hydric Soil Present? ☒ Yes ☐ No

Remarks:

WETLAND DETERMINATION DATA FORM
Northcentral-Northeast Region

Project/Site: Daybreak Foods - Lake Mills | Wetland ID: W-4 | Sample Point: P-15

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

	Species Name	% Cover	Dominant	Ind.Status
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 5 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
	Total Cover =	0		

Herb Stratum (Plot size: 2 meter radius)

1.	*Portulaca oleracea*	5	Y	FACU
2.	*Acer negundo*	1	N	FAC
3.	*Ambrosia trifida*	1	N	FAC
4.	*Erigeron strigosus*	1	N	FACU
5.	*Phalaris arundinacea*	10	Y	FACW
6	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
	Total Cover =	18		

Woody Vine Stratum (Plot size: 10 meter radius)

1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
	Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***50%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	10	x 2 =	20
FAC spp.	2	x 3 =	6
FACU spp.	6	x 4 =	24
UPL spp.	0	x 5 =	0
Total	18 (A)		50 (B)

Prevalence Index = B/A = ***2.778***

Hydrophytic Vegetation Indicators:

- [ ] Yes [x] No Rapid Test for Hydrophytic Vegetation
- [ ] Yes [x] No Dominance Test is > 50%
- [x] Yes [ ] No Prevalence Index is ≤ 3.0 *
- [ ] Yes [x] No Morphological Adaptations (Explain) *
- [ ] Yes [x] No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [x] Yes [ ] No

Remarks: Sample point located at edge of wet meadow dominated by Phalaris arundinacea and Phragmites australis. Vegetation at sample point is significantly disturbed due to cropping and tillage. Hydrophytic vegetation present based on prevalence index.

Additional Remarks:

Appendix C – Site Photographs

Photo 1. Sample Point P-1, view north

Photo 2. Sample Point P-1, view east

Photo 3. Sample Point P-1, view south

Photo 4. Sample Point P-1, view west

Photo 5. Sample Point P-2, view north

Photo 6. Sample Point P-2, view east

Photo 7. Sample Point P-2, view south

Photo 8. Sample Point P-2, view west

Photo 9. Sample Point P-3, view north

Photo 10. Sample Point P-3, view east

Photo 11. Sample Point P-3, view south

Photo 12. Sample Point P-3, view west

Photo 13. Pond from northwest corner of Project Area, view southeast.

Photo 14. Ditch near Sample Point P-4, view south

Photo 15. Ditch near Sample Point P-4, view west

Photo 16. Sample Point P-4, view north

Photo 17. Sample Point P-4, view east

Photo 18. Sample Point P-4, view south

Photo 19. Sample Point P-4, view west

Photo 20. Sample Point P-5, view north

Photo 21. Sample Point P-5, view east

Photo 22. Sample Point P-5, view south

Photo 23. Sample Point P-5, view west

Photo 1. Sample Point P-8, view north

Photo 2. Sample Point P-8, view east

Photo 3. Sample Point P-8, view south

Photo 4. Sample Point P-8, view west

Photo 5. Sample Point P-9, view north

Photo 6. Sample Point P-9, view east

Photo 7. Sample Point P-9, view south

Photo 8. Sample Point P-9, view west

Photo 9. Sample Point P10, view north

Photo 10. Sample Point P-10, view east

Photo 11. Sample Point P-10, view south

Photo 12. Sample Point P-10, view west

Photo 13. Sample Point P-11, view north

Photo 14. Sample Point P-11, view east

Photo 15. Sample Point P-11, view south

Photo 16. Sample Point P-11, view west

Photo 17. Sample Point P-12, view north

Photo 18. Sample Point P-12, view east

Photo 19. Sample Point P-12, view south

Photo 20. Sample Point P-12, view west

Photo 21. Sample Point P-13, view north

Photo 22. Sample Point P-13, view east

Photo 23. Sample Point P-13, view south

Photo 24. Sample Point P-13, view west

Photo 24. Sample Point P-14, view north

Photo 25. Sample Point P-14, view east

Photo 26. Sample Point P-14, view south

Photo 27. Sample Point P-14, view west

Photo 28. Sample Point P-15, view north

Photo 29. Sample Point P-15, view east

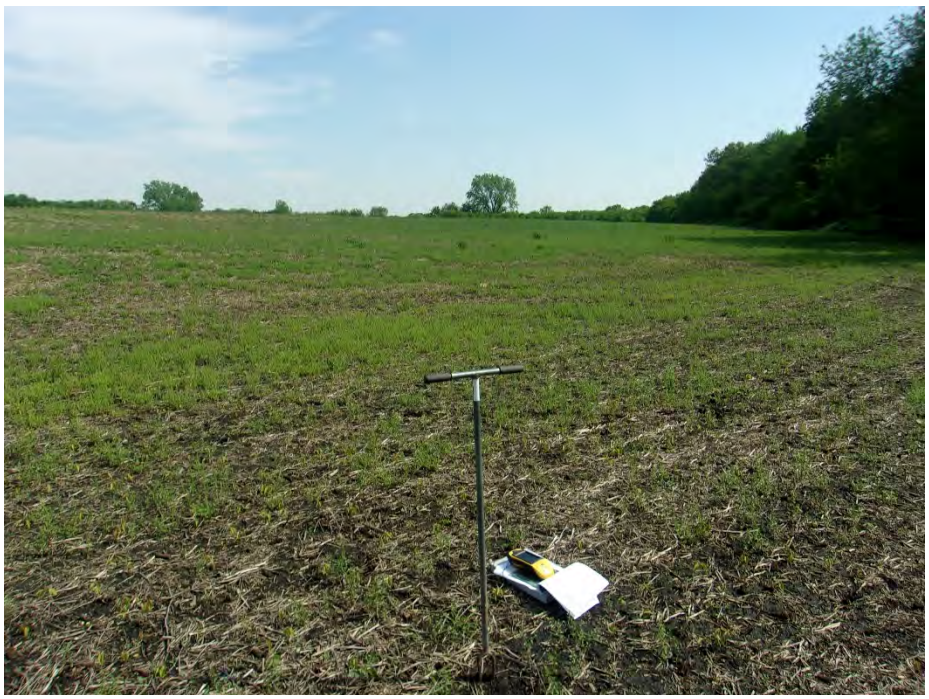

Photo 30. Sample Point P-15, view south

Photo 31. Sample Point P-15, view west

Appendix D – WETS Analysis

WETS Analysis Worksheet

Project Name: Day Break Foods - Creekwood Site
Project Number: 193705272
Period of interest: February-April, 2017
Station: Watertown, WI
County: Jefferson County, WI

Long-term rainfall records (from WETS table)

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	April	2.28	3.09	3.63
2nd month prior:	March	1.16	2.11	2.58
3rd month prior:	February	0.53	1.23	1.49
		Sum =	**6.43**	

Site determination

	Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
	5.21	Wet	3	3	9
	2.99	Wet	3	2	6
	1.31	Normal	2	1	2
Sum =	**9.51**			Sum*** =	**17**

*Normal precipitation with 30% to 70% probability of occurrence

Determination: **X** Wet
_____ Dry
_____ Normal

**Condition value:

Dry =	1
Normal =	2
Wet =	3

***If sum is:

6 to 9	then period has been drier than normal
10 to 14	then period has been normal
15 to 18	then period has been wetter than normal

Precipitation data source: Midwest Regional Climate Center, cli-MATE: MRCC Application Tools Environment

Reference: Donald E.Woodward, ed. 1997. *Hydrology Tools for Wetland Determination* , Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

WETS Analysis Worksheet

Project Name: Daybreak Facilities - Lake Mills Site
Project Number: 193705272
Period of interest: February-April, 2017
Station: STOUGHTON, WI
County: Dane County, WI

Long-term rainfall records (from WETS table)

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	April	2.54	3.57	4.22
2nd month prior:	March	1.07	2.06	2.49
3rd month prior:	February	0.58	1.33	1.63
		Sum =	**6.96**	

Site determination

	Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
	6.80	Wet	3	3	9
	2.69	Wet	3	2	6
	1.34	Normal	2	1	2
Sum =	**10.83**			Sum*** =	**17**

*Normal precipitation with 30% to 70% probability of occurrence

Determination: **X** Wet
_____ Dry
_____ Normal

**Condition value:

Dry =	1
Normal =	2
Wet =	3

***If sum is:

6 to 9	then period has been drier than normal
10 to 14	then period has been normal
15 to 18	then period has been wetter than normal

Precipitation data source: Midwest Regional Climate Center, cli-MATE: MRCC Application Tools Environment

Reference: Donald E.Woodward, ed. 1997. *Hydrology Tools for Wetland Determination* , Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

Appendix E – Off-Site Aerial Imagery Analysis

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Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WisDOT, WDNR
3. Orthophotography: NAIP

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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2005

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
1:4,800 (at original document size of 8.5x11)

N

Stantec

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Notes
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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2006

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
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Stantec

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Notes
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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2008

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
1:4,800 (at original document size of 8.5x11)

N

Stantec

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Notes
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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2010

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
1:4,800 (at original document size of 8.5x11)

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Stantec

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Notes
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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2013

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
1:4,800 (at original document size of 8.5x11)

N

Stantec

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Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WisDOT, WDNR
3. Orthophotography: NAIP

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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2015

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
1:4,800 (at original document size of 8.5x11)

N

Stantec

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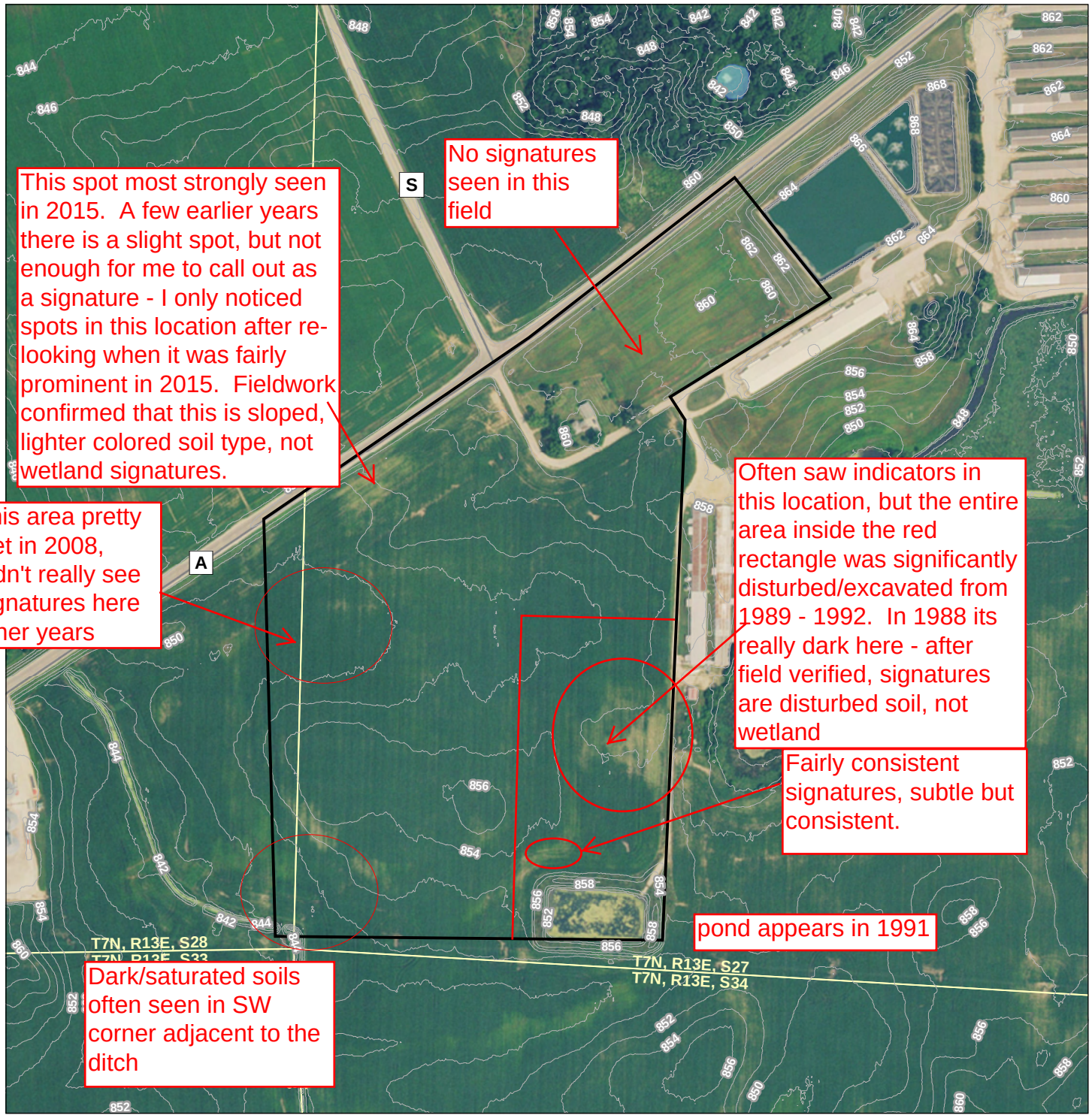

Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WisDOT, WDNR
3. Orthophotography: NAIP 2015

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Legend
- Approximate Project Boundary
- 2ft Elevation Contour

DNR 24k Hydrography
- Perennial Stream
- Intermittent Stream
- Waterbody

Figure No. 5

DRAFT

Title
Field Collected Data

Client/Project
Daybreak Foods, Inc.
Creekwood Site
Wetland Delineation

Project Location
T7N, R13E, S27-28,
T. of Lake Mills
Jefferson Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 200 400 Feet
1:4,800 (at original document size of 8.5x11)

N

Stantec

Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Creekwood Site - Town of Lake Mills

Project Location: Section 27-28, Township 7N, Range 13E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	March	April	May				
1998	3.80	3.67	5.88	**Wet**	**CR**	**Y-; 6d**	Main field not yet platend - areas of darker soil visible across field
2001	0.00	3.80	5.30	**Normal**	**CR**	**Y-; 6b, c, d**	Small areas of bare soil/crop stress; darker soils in SW corner
30% chance less than	1.24	2.55	2.43				
30 Year Average	2.13	3.56	3.65				
30% chance more than	2.58	4.20	4.37				

FSA Summary - June-September Aerials, 1979-2015

See overall site summary on July analysis

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three mo

[2] Precipitation data from WETS station - Lake Mills, WI

[3] CR = cropped (row crop or tilled), NC = not cropped (hay, pasture, fallow, etc.)

[4] Y = wetness signature present (+ = strong, - = weak); N = No wetness signature

[5] Interpretation Codes - Feature: 1=water, 2=mud flat, 3=bare spot, 4=drowned crop, 5=planted late; Color: 6a=dark green, 6b=light green, 6c=yellow, 6d=brown, 6e=black; Manipulation: 7a=ditched, 7b=tiled, 7c=filled, 7d=tree/brush removal, 8=plowed/tilled; Other: write explanation as needed

Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Creekwood Site - Town of Lake Mills

Project Location: Section 27-28, Township 7N, Range 13E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	April	May	June				
1979	3.75	2.52	2.87	**Normal**	**CR**	**N**	No wetness signatures observed.
1983	2.18	3.79	2.68	**Normal**	**CR**	**N**	No wetness signatures observed.
1985	1.26	3.20	1.60	**Dry**	**CR**	**N**	No wetness signatures observed.
1988	3.63	1.02	1.24	**Dry**	**CR**	**Y+; 6a**	Areas of darker green vegetation within fields that appear drought stressed otherwise
1989	1.47	1.90	1.60	**Dry**	**CR**	**N**	No wetness signatures observed; excavation/other ground disturbance appears to be taking place in E half of field
1990	2.34	5.13	4.09	**Normal**	**CR**	**N**	No wetness signatures observed; excavation/other ground disturbance in E half of field
1991	3.97	1.85	4.67	**Normal**	**CR**	**Y-; 6a**	Small area of darker green vegetation in SW corner; excavated/other ground disturbance in E half of field with excavated pond newly present in SE corner.
1993	5.55	3.69	6.41	**Wet**	**CR**	**N**	No wetness signatures observed' excavated pond in SE corner.
1994	1.39	1.33	5.61	**Normal**	**CR**	**N**	No wetness signatures observed' excavated pond in SE corner.
1997	2.80	2.19	5.23	**Normal**	**CR**	**Y-; 6d**	Small area of different color N of excavated pond in SE corner - could be from past disturbance in this area; slightly darker soil in SW corner.
1999	8.88	5.77	8.59	**Wet**	**CR**	**Y-; 6d**	Small areas of bare soil or crop stress visible
2000	3.00	7.57	5.94	**Wet**	**CR**	**N**	No wetness signatures observed.
2002	3.30	5.90	6.08	**Wet**	**CR**	**N**	No wetness signatures observed.
2005	0.74	3.57	3.26	**Normal**	**CR**	**N**	No wetness signatures observed.
2006	3.68	5.22	3.61	**Normal**	**CR**	**Y-; 6b**	Small areas of different color veg in SW corner and N of excavated pond in SE corner
2008	6.21	1.36	11.38	**Normal**	**CR**	**Y+; 3, 6b, 6c**	Area of stressed crop in NW corner; small bare spot N of excavated pond
2010	4.09	4.61	10.38	**Wet**	**CR**	**Y-; 6b, 6c, 6d**	Area of bare soil and stressed crop in SW corner; areas of stressed crop N of excavated pond.
2013	6.18	6.94	7.78	**Wet**	**CR**	**Y-; 6d**	Darker soils in SW corner
2015	5.40	3.14	3.89	**Normal**	**CR**	**Y-; 6b, 6c, 6d**	Small areas of crop stress N of excavated pond and scattered in field
30% chance less than	2.55	2.43	2.63				
30 Year Average	3.56	3.65	4.39				
30% chance more than	4.20	4.37	5.33				

FSA Summary - June-September Aerials, 1979-2015

Does slide/aerial photo analysis indicate the site contains farmed wetland? Yes

9 out of 17 most the recent "normal" precipitation years had potential wetland signatures present. The most consistent wetland signature is in the SW corner of the site. The east half of the side was excavated/significantly disturbed from 1989-1992, with an excavated pond appearing in the SE corner of the site in 1991. Inconsistent color variation across the site in other years.

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three months prior to July.

[2] Precipitation data from WET Station - Lake Mills, WI

[3] CR = cropped (row crop or tilled), NC = not cropped (hay, pasture, fallow, etc.)

[4] Y = wetness signature present (+ = strong, - = weak); N = No wetness signature

[5] Interpretation Codes - Feature: 1=water, 2=mud flat, 3=bare spot, 4=drowned crop, 5=planted late; Color: 6a=dark green, 6b=light green, 6c=yellow, 6d=brown, 6e=black; Manipulation: 7a=ditched, 7b=tiled, 7c=filled, 7d=tree/brush removal, 8=plowed/tilled; Other: write explanation as needed

Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Creekwood Site - Town of Lake Mills

Project Location: Section 27-28, Township 7N, Range 13E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	May	June	July				
1981	1.07	3.89	3.85	**Normal**	**CR**	**Y-; 6b**	Different color vegetation in SW corner. East half of field may be a different crop or covered in manure.
1984	4.12	6.11	2.74	**Normal**	**CR**	**N**	No wetness signatures observed.
1986	2.84	4.53	6.41	**Wet**	**CR**	**N**	No wetness signatures observed.
1992	1.25	1.36	6.17	**Normal**	**CR**	**Y?**	Potential signs of past ground disturbance in E half of field or could be wet signature = not totally clear. Excavated pond on SE corner.
1996	2.19	11.31	3.47	**Normal**	**CR**	**Y-; 6b, 6c**	Small area of different color veg N of excavated pond in SE corner - could be from past disturbance in this area; some color variation in crop across site.
30% chance less than	2.43	2.63	2.95				
30 Year Average	3.65	4.39	4.02				
30% chance more than	4.37	5.33	4.72				

FSA Summary - June-September Aerials, 1979-2015

See overall site summary on July analysis

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three months prior to July.

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Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Creekwood Site - Town of Lake Mills

Project Location: Section 27-28, Township 7N, Range 13E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	June	July	August				
1982	3.17	6.95	3.69	**Normal**	**CR**	**Y+; 6e**	Dark, saturated soils in SW corner; overall field color mottled - possibly crops affected by wet conditions, different planting times
1995	0.00	0.00	7.96	**Normal**	**CR**	**N**	No wetness signatures observed.
30% chance less than	2.63	2.95	3.04				
30 Year Average	4.39	4.02	4.49				
30% chance more than	5.33	4.72	5.37				

FSA Summary - June-September Aerials, 1979-2015

See overall site summary on July analysis

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three months prior to July.

[2] Precipitation data from WETS station - Lake Mills, WI

[3] CR = cropped (row crop or tilled), NC = not cropped (hay, pasture, fallow, etc.)

[4] Y = wetness signature present (+ = strong, - = weak); N = No wetness signature

[5] Interpretation Codes - Feature: 1=water, 2=mud flat, 3=bare spot, 4=drowned crop, 5=planted late; Color: 6a=dark green, 6b=light green, 6c=yellow, 6d=brown, 6e=black; Manipulation: 7a=ditched, 7b=tiled, 7c=filled, 7d=tree/brush removal, 8=plowed/tilled; Other: write explanation as needed

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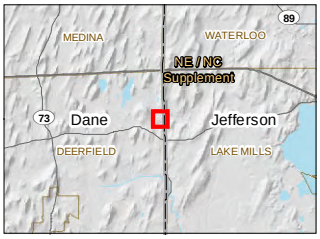

Notes
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2. Data Sources Include: Stantec, WisDOT, WDNR
3. Orthophotography: NAIP

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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2005

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 150 300 Feet
1:3,600 (at original document size of 8.5x11)

N

Stantec

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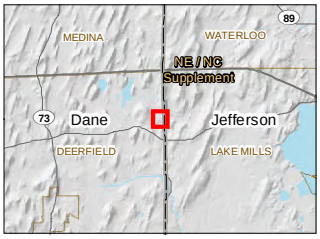

Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WisDOT, WDNR
3. Orthophotography: NAIP

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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2006

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
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0 150 300 Feet
1:3,600 (at original document size of 8.5x11)

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Stantec

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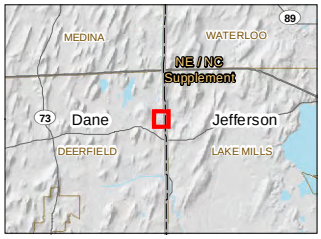

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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2008

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 150 300 Feet
1:3,600 (at original document size of 8.5x11)

N

Stantec

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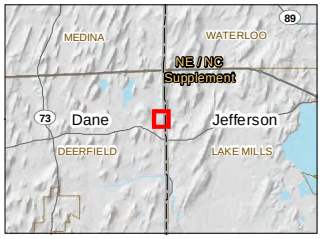

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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2010

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

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Stantec

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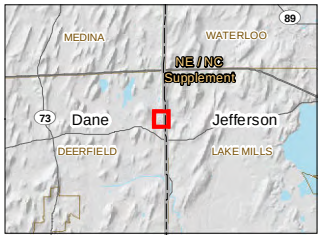

Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include: Stantec, WisDOT, WDNR
3. Orthophotography: NAIP

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2013

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 150 300 Feet
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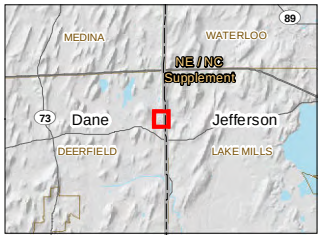

Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2015

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
Dane Co., WI

193705272
Prepared by SF on 2017-05-10
Technical Review by MG on 2017-05-11
Independent Review by XXX on 2017-XX-XX

0 150 300 Feet
1:3,600 (at original document size of 8.5x11)

N

Stantec

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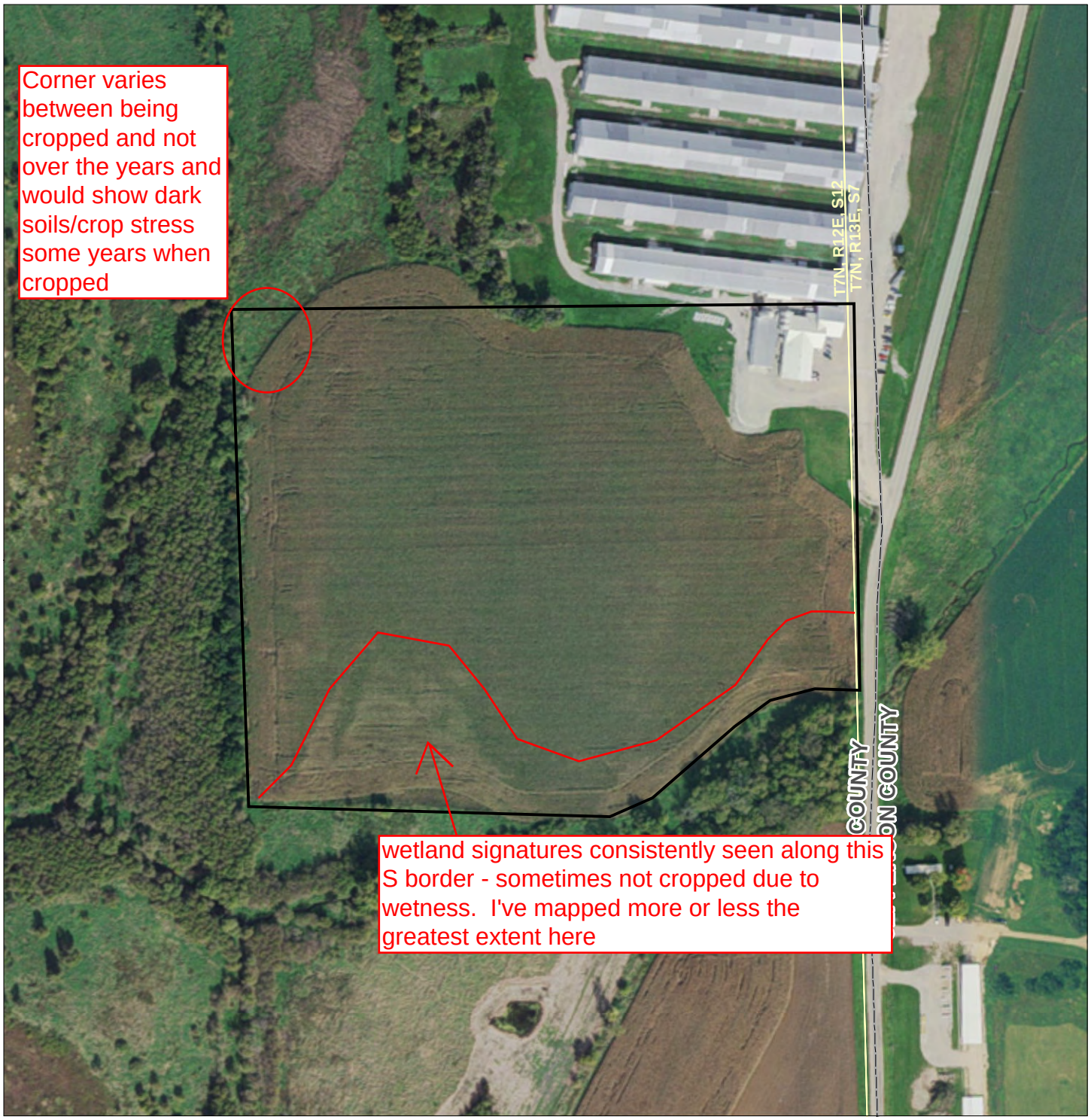

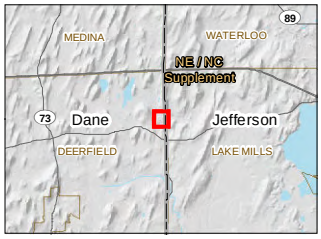

Notes
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Legend

Approximate Project Boundary

Figure No.
X

DRAFT

Title
NAIP Imagery Review
2015

Client/Project
Daybreak Foods, Inc.
Lake Mills Site
Wetland Delineation

Project Location
T7N, R12E, S12,
T. of Deerfield
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N

Stantec

Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Lake Mills Site - Town of Deerfield

Project Location: Section 12, Township 7N, Range 12E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	March	April	May				
1998	3.80	3.67	5.88	**Wet**	**CR**	**Y+; 3, 4, 6e**	Areas of bare soil/drown crop and dark soils along S border; not cropped right at S border
2001	0.00	3.80	5.30	**Normal**	**CR**	**Y+; 6b, 6e**	Different color veg and dark soils along S border
30% chance less than	1.24	2.55	2.43				
30 Year Average	2.13	3.56	3.65				
30% chance more than	2.58	4.20	4.37				

FSA Summary - June-September Aerials, 1979-2015

See overall site summary on July analysis

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three mo

[2] Precipitation data from WETS station - Lake Mills, WI

[3] CR = cropped (row crop or tilled), NC = not cropped (hay, pasture, fallow, etc.)

[4] Y = wetness signature present (+ = strong, - = weak); N = No wetness signature

[5] Interpretation Codes - Feature: 1=water, 2=mud flat, 3=bare spot, 4=drowned crop, 5=planted late; Color: 6a=dark green, 6b=light green, 6c=yellow, 6d=brown, 6e=black; Manipulation: 7a=ditched, 7b=tiled, 7c=filled, 7d=tree/brush removal, 8=plowed/tilled; Other: write explanation as needed

Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Lake Mills Site - Town of Deerfield

Project Location: Section 12, Township 7N, Range 12E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	April	May	June				
1983	2.18	3.79	2.68	**Normal**	**CR**	**Y+; 6a, 6b, 6d**	Different color vegetation/fields not planted along S border; areas of dark soil visible
1987	3.87	3.63	0.88	**Dry**	**CR**	**Y-; 6a, 6b**	Area of different color veg along S border and extending N into field
1988	3.63	1.02	1.24	**Dry**	**CR**	**Y+; 3, 4, 6e**	Drowned crop/bare soil and dark/satured soils along S border and extending N into field
1989	1.47	1.90	1.60	**Dry**	**CR**	**Y-; 6b**	Areas of different color veg along S border and at N border
1990	2.34	5.13	4.09	**Normal**	**CR**	**N**	No wetness signatures observed.
1991	3.97	1.85	4.67	**Normal**	**CR**	**Y-; 6b**	Small areas of lighter color veg
1993	5.55	3.69	6.41	**Wet**	**CR**	**N**	No wetness signatures observed.
1994	1.39	1.33	5.61	**Normal**	**CR**	**N**	No wetness signatures observed.
1997	2.80	2.19	5.23	**Normal**	**CR**	**Y-; 6d, 6e**	Dark/saturated soils along S border and in NW corner
1999	8.88	5.77	8.59	**Wet**	**CR**	**N**	No wetness signatures observed.
2000	3.00	7.57	5.94	**Wet**	**CR**	**Y-; 6b**	Different color veg in NW corner and along S border
2002	3.30	5.90	6.08	**Wet**	**CR**	**Y-; 6b, 6d**	Different color veg/dark soils along S border
2005	0.74	3.57	3.26	**Normal**	**CR**	**Y-; 6b, 6d**	Different color veg/dark soils along S border
2006	3.68	5.22	3.61	**Normal**	**CR**	**Y-; 6b**	Different color veg along S border and NW corner
2008	6.21	1.36	11.38	**Normal**	**CR**	**Y-; 6b**	Different color veg along S border and NW corner
2010	4.09	4.61	10.38	**Wet**	**CR**	**Y+; 6b, 6c, 6d**	Different color veg/dark soils along S border and NW corner
2013	6.18	6.94	7.78	**Wet**	**CR**	**Y+; 6b, 6c, 6d**	Different color veg/dark soils along S border and NW corner
2015	5.40	3.14	3.89	**Normal**	**CR**	**Y-; 6c**	Different color veg along S border
30% chance less than	2.55	2.43	2.63				
30 Year Average	3.56	3.65	4.39				
30% chance more than	4.20	4.37	5.33				

FSA Summary - June-September Aerials, 1979-2015

Does slide/aerial photo analysis indicate the site contains farmed wetland? Yes

9 out of 12 most the recent "normal" precipitation years had potential wetland signatures present. Signatures were consistently seen in the NW corner of the site and along the southern boundary. Wetness signatures seen in these locations in dry and wet years as well.

DRY

NORMAL

WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three months prior to July.

[2] Precipitation data from WETS station - Lake Mills, WI

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[4] Y = wetness signature present (+ = strong, - = weak); N = No wetness signature

[5] Interpretation Codes - Feature: 1=water, 2=mud flat, 3=bare spot, 4=drowned crop, 5=planted late; Color: 6a=dark green, 6b=light green, 6c=yellow, 6d=brown, 6e=black; Manipulation: 7a=ditched, 7b=tiled, 7c=filled, 7d=tree/brush removal, 8=plowed/tilled; Other: write explanation as needed

Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Lake Mills Site - Town of Deerfield

Project Location: Section 12, Township 7N, Range 12E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	May	June	July				
1986	2.84	4.53	6.41	**Wet**	**CR**	**Y+; 3, 4, 6a, 6b**	Areas of bare soil and drowned/stressed crop along S border and extending N into main field
1996	2.19	11.31	3.47	**Normal**	**CR**	**Y+; 6b, 6c, 6e**	Dark/saturated soils along S border and in NW corner; areas of different color veg along S and E borders
30% chance less than	2.43	2.63	2.95				
30 Year Average	3.65	4.39	4.02				
30% chance more than	4.37	5.33	4.72				

FSA Summary - June-September Aerials, 1979-2015

See overall site summary on July analysis

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three months prior to July.

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Off-Site Aerial Photography Review[1]

Daybreak Foods, Inc. Lake Mills Site - Town of Deerfield

Project Location: Section 12, Township 7N, Range 12E, Jefferson County

Year	Monthly Rainfall in Inches [2]			Relative Wetness	Cropped[3]?	Wetness Signature[4,5]?	Interpretation
	June	July	August				
1981	3.89	3.85	6.87	**Wet**	**CR**	**Y-; 6b, 6c**	Small areas of different color veg/crop stress along S border
1982	3.17	6.95	3.69	**Dry**	**CR**	**Y-; 6b, 6c**	Area of different color veg in SE corner
1984	6.11	2.74	1.31	**Dry**	**CR**	**Y-; 6b, 6c**	Area along S border not cropped; area of dark soils
1985	1.60	2.65	2.41	**Dry**	**CR**	**N**	No wetness signatures observed.
1995	0.00	0.00	7.96	**Normal**	**CR**	**N**	No wetness signatures observed.
30% chance less than	2.63	2.95	3.04				
30 Year Average	4.39	4.02	4.49				
30% chance more than	5.33	4.72	5.37				

FSA Summary - June-September Aerials, 1979-2015

See overall site summary on July analysis

DRY
NORMAL
WET

[1] Farm Service Agency (FSA) slides are used for this review unless otherwise noted. Assumption is made that FSA slides are taken in July; as a result, precipitation analysis focuses on three months prior to July.

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Appendix F– Delineator Qualifications

Jeffrey D. Kraemer W.P.I.T.

Senior Scientist / Project Manager

Mr. Kraemer specializes in environmental regulatory support and policy. He has substantial experience working with the local, state, and federal regulatory agencies on complex, often controversial projects. Mr. Kraemer has substantial experience assisting clients at the project planning level to identify and plan for environmental regulatory implications and risk across many industry sectors with particular expertise in the utility and private development industries. Mr. Kraemer has a thorough understanding of the technical and regulatory aspects of environmental projects. His experience includes: Project critical issues analysis/permitting feasibly assessments; Wetland and other natural resource investigations, mitigation planning, and permitting; Clean Water Act and Endangered Species Act studies and consultation; and National Environmental Policy Act documentation (EA/EIS).

In addition to environmental regulatory expertise, Mr. Kraemer has a strong technical background in wetland ecology and botany and manages Stantec's Midwest ecological restoration implementation group. This group is responsible for building, managing, and monitoring natural area restoration projects such as wetland mitigation. Mr. Kraemer is an assured wetland professional through the Wisconsin Department of Natural Resources Wetland Delineation Professional Assurance Initiative and has extensive environmental consulting experience as both a field ecologist and project manager.

EDUCATION

Wetland Training Institute, Training, Wetland Soils and Hydrology, 2003

Vegetation of Wisconsin Workshop, Training, UW-Milwaukee, 2000

Wetland Delineation Training Workshop, Continuing Education and Extension, UW-La Crosse, 2001

Identification of Sedges Workshop, Training, UW-Milwaukee, 2001

Environmental Corridor Delineation Workshop, Training, Southeastern Wisconsin Regional Planning Commission (SEWRPC), 2004

M.S. – Biological Sciences (Emphasis in Wetland Ecology), University of Wisconsin, Milwaukee, Wisconsin, 2003

B.S. – Biological Sciences (Emphasis in Aquatic Biology), University of Wisconsin, La Crosse, Wisconsin, 1999

Assured Wetland Delineator, Milwaukee, Wisconsin, 2008

REGISTRATIONS

Professionally Assured Wetland Delineator, Wisconsin Department of Natural Resources

Wetland Professional in Training (WPIT), Society of Wetland Scientists Certification Program

MEMBERSHIPS

Member, Society of Wetland Scientists

Member, Wisconsin Wetlands Association

** denotes projects completed with other firms*